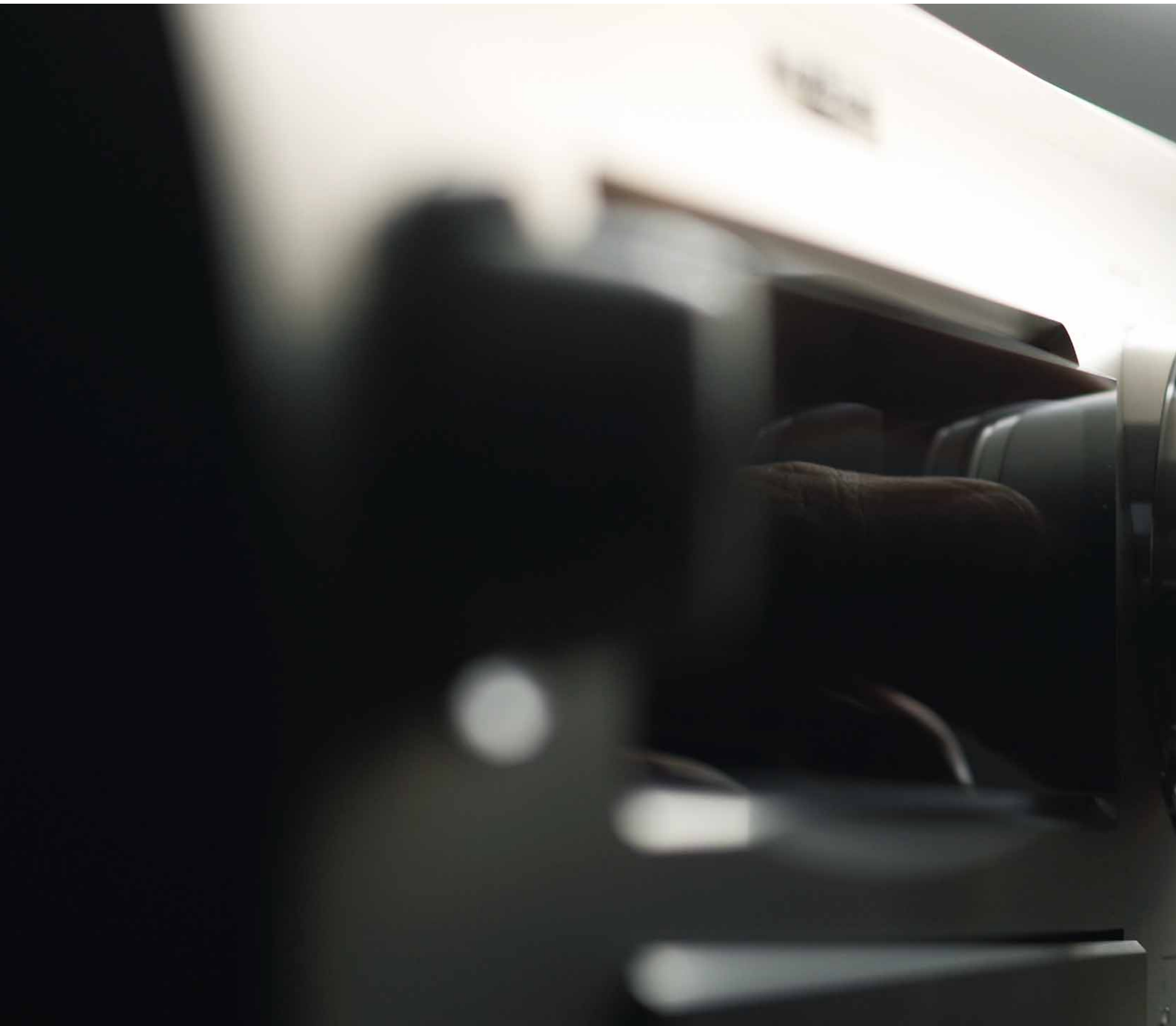


# DENON

General catalogue  
2009/2010





*Live tone,*

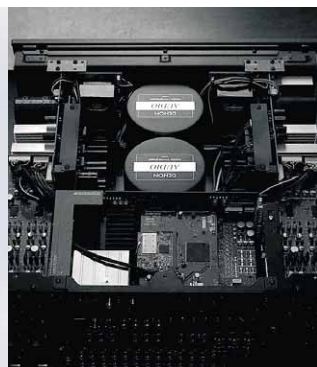
replaying memories of excitement,  
for as long as there is time to pass it on to you.



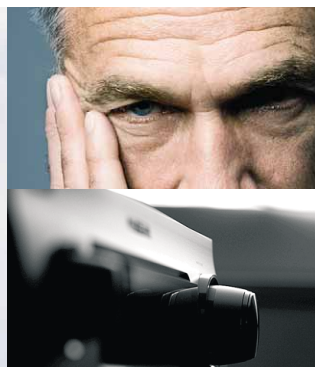
It's as fresh as though it were painted just yesterday.  
That's what someone once said in praise of a 19th-century masterpiece.

Denon believes the same can be said about music and video playback.  
Live tone is the sensation of being there at the time.  
This is precisely the freshness and reproducibility that Denon is after.  
A famous performance of classical music, jazz amidst cacophony, the relaxation of bossa nova,  
the fever of rock 'n' roll, the adventure of movies, love, space fantasies, and so on . . .  
Works of art that continue to appear inexhaustibly on this Earth throughout time.  
These moments of excitement come to us in the time capsules of CD, DVD and Blu-ray discs, or over the Internet.  
Denon express their honour to various creators by reviving those moments of time,  
as faithfully as possible to the producers' original intentions.  
We live in an age where we can enjoy music or video images at home or carry them with us wherever we like.  
130 years have passed since the invention of technology to record and play back sound.  
Denon, too, has been on the scene for about the same century.  
For the sake of refreshing sound and video, and Live tone.  
From now on, just as we have thus far, Denon will continue its tradition of  
building greater sensitivity and better technology.

## 6 Home theatre products



**8**  
Home theatre technology



**12**  
High-end  
home theatre components

A/V surround pre-amplifier  
Power amplifier  
A/V surround amplifier  
Blu-ray disc player



**18**  
Audiophile quality smart system



**20**  
Network concept

## 36 Hi-Fi audio products



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Hi-Fi audio technology



**39**  
Hi-Fi audio components

Integrated amplifiers  
Super Audio CD/CD players  
Receivers  
Tuners  
Turntables



**44**  
CX series

Receiver  
Super Audio CD/CD player  
CD receiver  
Speakers



**46**  
Mini component systems

F series  
M series

# Live tone, choices for every walk of life.

Support for the full range of models, from high-end A/V components to mini component systems and portable audio players.  
Introducing here the products one by one. Packed with 100 years of technology and excitement for Hi-Fi.  
No matter which model you choose, you can enjoy Live tone to the full. Denon's wish is to please every music and movie lover in the world.



**22**  
Home theatre components

- Blu-ray disc player
- DVD player
- A/V Surround Receiver
- Speaker system
- HDMI cable

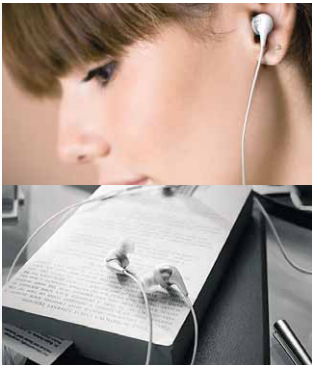


**32**  
Control dock for iPod

## 52 Headphones



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**56**  
Headphones

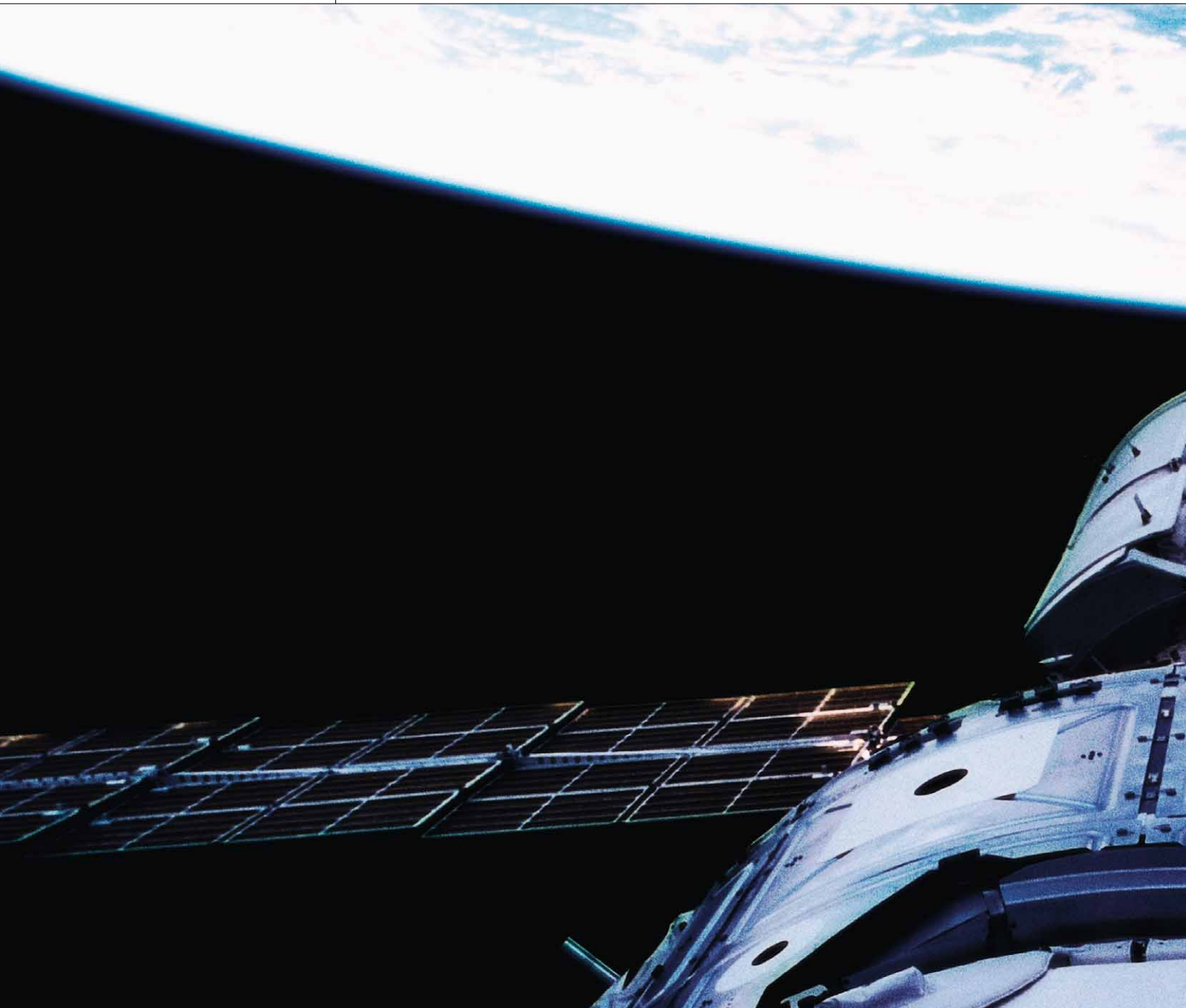
- Over-ear headphones
- On-ear headphones
- Portable headphones
- In-ear headphones

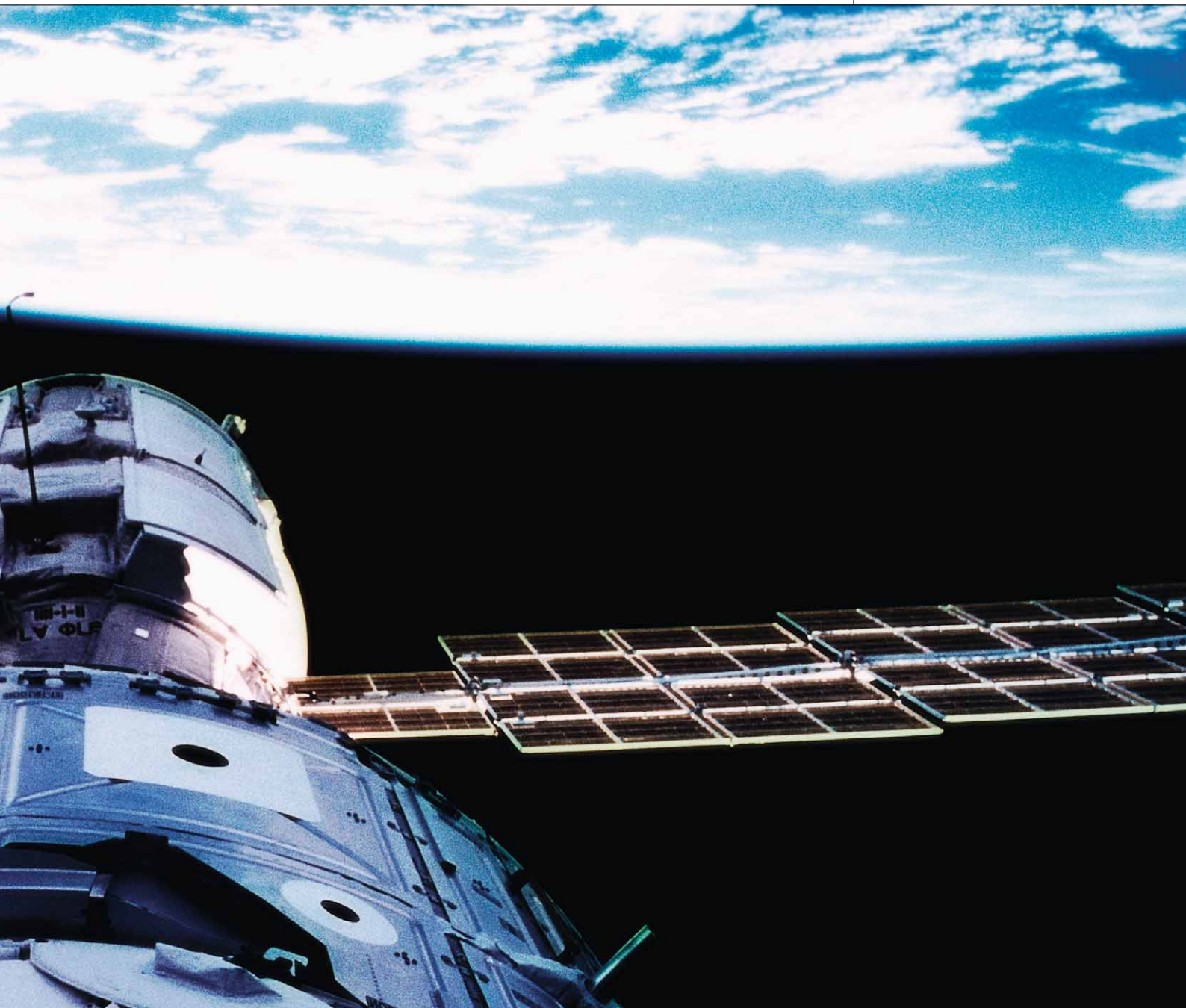
## 60 Specifications



## 67 History







## So, let's go home. The excitement will begin.

In the minute details, and the tremendous power.

Reproducing the raw experience, as if you were there.

The high quality of Denon products, whether the system is large or small, lets you enjoy the excitement of the original performance.

When you want to go far away, take a space trip with a Hollywood movie.

When the sounds of the city turn nostalgic, go to a New York jazz club.

When you want to cry, see a Japanese animé film.

For love, adventure, or life, just sit in your favourite sofa and press the Play button.

Who's saying it's no fun to stay home?

From the relaxation of a resort, to the excitement of a brand new experience.

With Denon home entertainment, we show you how to transform your home into a place of world-class stimulation.

# Technology and passion, you don't need to see all the details.

Some people say Denon engineers pay too much attention to details. Because they know how to produce beautiful sound and video that match a minute, condensed structure. It might be overserious. But we prefer sincerity. Like a mathematician obsessed with rendering profundity in a beautiful formula, we wish to continue devoting our passion to what cannot be seen inside the box. It's not necessary to see the minute details of technology and passion. But we would like you to sense them. Live tone, that's Denon.

## Sound and video quality

### • Minimum signal path design

The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback. Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

### • Direct Mechanical Ground Construction

Vibration-resistant construction has been reviewed to thoroughly suppress the adverse influences of vibration on sound and video quality. The power transformers, a source of vibration, have been securely mounted on the highly rigid bottom chassis. Direct-mounting of cast-iron feet to the radiator in near proximity to each other serves to suppress mutual vibration with the power transformers and other sources of vibration. And careful mounting and placement of various parts has effectively eliminated the influences of external and internal vibration. This is all part of Denon's uncompromising design for impeccable sound and video quality.



### • Separated block structure

To prevent electrical and magnetic mutual interference, circuit boards handling different types of signals, such as the power supply board, video board, audio board, and digital control board, have been separated into their own blocks within the chassis. This separated structure brings out the full performance of high-definition picture and sound quality.

### • Multi-layer construction

Various methods of absorbing vibration have been adopted in the design of Denon's Blu-ray Disc/DVD players to further improve accuracy in reading signals from the disc. All players feature a multi-layer construction in their chassis and top cover, while high-end models incorporate the SVH loader mechanism to maximise protection of the mechanism from vibration.

### • Advanced S.V.H. Mechanism

Denon disc drive mechanisms in the DVD-A1XV, DVD-3800BD and other digital disc players have received high acclaim. For the DVD-A1UD flagship, Denon developed the Advanced S.V.H. Mechanism to achieve improved vibration resistance and quieter operation. The quiet disc loading mechanism ensures the stability demanded by this top-of-the-line model. Furthermore, by positioning the disc mechanism at a low location, it has become possible to achieve a low centre of gravity for the disc mechanism and a construction highly resistant to internal vibration caused by disc rotation and external vibration.

- Heavy-duty dual-layer steel top cover
- Heavy-duty clamper cover
- Zinc diecast mechanism case
- Steel shaft with specially fabricated surface
- Newly-developed floating dampers
- Thin aluminium diecast tray



## Sound quality

### • Identical quality and power for all channels

With the appearance of Blu-ray disc and high-definition broadcasting, there is greater demand for the high quality sound of multi-channel audio. Denon led the way with its emphasis on identical quality, identical power, and identical response for all channels. Denon do not make any compromises in the amplifier circuitry we design.





#### • Discrete power amp unit

The power amp must deliver perfectly stable performance under all operating conditions. Denon A/V Surround Receivers feature discrete designs that combine parts strictly selected for superior audio playback performance. Total harmonic distortion, a difficult aspect to improve, has been suppressed in the IC chips to reproduce a beautiful, realistic sound.

#### • 7ch Discrete Mono Amp Construction

In the 7-channel discrete mono amp construction, an independent amplifier circuit board is used for each monaural channel to ensure a clean, transparent playback sound.



#### • D.D.S.C.-Digital HD

D.D.S.C. (Dynamic Discrete Surround Circuit)-Digital is a circuit configuration specially designed by Denon in which all elements of the surround processor are optimised through the use of selected high-performance discrete components, including separate A/D and D/A converters, with sophisticated DSP surround decoding. DDSC-Digital HD is a newly developed engineering design now for HD sources.

### ADVANCED *AL32* PROCESSING MULTI CHANNEL

#### • Advanced AL32 Processing

Denon led the world in developing a practical PCM recorder in 1972. The shift to digital technology solved numerous problems such as noise, wow, flutter, and frequency response. The delicate nuances of sound from CD up to the least significant bit (LSB) are lost, however, due to the 16-bit quantization and band cutting at  $fs/2$  (half the sampling frequency) during 44.1-kHz sampling. Denon was determined to tackle the problem of quantization noise that remained in digital audio, and developed ALPHA (adaptive line pattern harmonized algorithm), a technology that reproduced 16-bit data with 32-bit quality and became a favorite with audiophiles around the world. Advanced AL32 Processing uses a unique data interpolation algorithm to achieve high-bit, high-sampling output performance. The volume of information has been dramatically improved without any loss in the original data. The clean playback sound free of interference makes it possible to enjoy delicate details, accurate localization, and rich expression in the lower range.

Advanced AL32 Processing has three functions:

[Function 1] High-bit up-conversion (Adaptive Line Pattern Harmonized Algorithm)

By installing arithmetic circuitry for lower-order data generation that is four times greater than conventional arithmetic circuitry and using that to process calculations, upper-order 16-bit data is added to the lower-order 16-bit data that is generated and output data of 32-bit quality is obtained. Audio signals that previously could only be output in a 1LSB staircase pattern are reproduced in a smooth waveform of 32-bit precision, reducing distortion at micro levels.

1 kHz, -90dB sine wave of waveform reproduced from CD



Conventional system

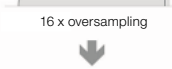
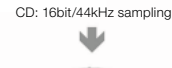


Advanced AL32 Processing

[Function 2] Advanced ALPHA Processing

The 44.1-kHz sampling signals of a CD are oversampled by a factor of 16 to produce a smoother waveform. At this time, simply performing linear interpolation and increasing the data will not produce a signal waveform that exists in the natural world. A waveform close to that of the original signal is achieved by inferring data interpolated from a large volume of data that should be reproduced before and after the data read from the CD. By analyzing large volumes of sampling before and after data read from the CD and inferring and interpolating the points that should exist, it is possible to produce a smooth signal that is closer to the original sound.

Conceptual diagram



[Function 3] Adaptive digital filter (Automatic Low-Pass filter Harmonic Adjustment)

In conventional ALPHA Processing, an adaptive digital filter was used to widen the passband for pulse data and prevent the occurrence of ringing. Advanced AL32 Processing, however, uses a filter algorithm with even

greater adaptive capability. Since filtering is conducted using the optimum algorithm even for pulsating signals or continuous high-frequency sound, a natural sound, unaffected by aliasing noise or lower high-range response, is produced.

Compared by impulse response (24 bit, 96 kHz)



Conventional system



Advanced AL32 Processing

Playback sine waves with attack sounds



Conventional system



Advanced AL32 Processing



#### • DENON LINK 4th, HDMI Clock Control via DENON LINK

-Digital Audio Signal

Sound that reaches human ears is made up of vibrating air that continually exists over time. Audio devices transform these vibrations into an electric signal. Sometimes the signal is an analogue audio signal (smooth waveform), and sometimes it is quantified to become a digital audio signal (staircase waveform). The digital audio signal samples the waveform of the analogue audio signal at fixed intervals as it passes continuously over time and quantifies it into binary values consisting of 1 and 0. Since quantification enables the digital audio signal to be expressed as a waveform, it is negligibly affected by noise; as can be heard when listening to a CD, the sound of the music is very clear and virtually noise-free. The digital audio signal also suffers little degradation when edited and is therefore easily processed for use on various media such as CD, DVD, and Blu-ray disc.

In reality, however, digital audio signals are not entirely free of noise, as they have a distortion known as clock jitter that affects sound quality.

-The Existence of Jitter

Digital audio devices are equipped with a clock that generates a time axis for quantized digital signals. The clock generates a time axis for use when signals are converted from digital to analogue or from analogue to digital. Jitter occurs when intervals along the time axis (the samples) fluctuate. The fluctuations along the time axis cause distortion in the sound.

Jitter mainly occurs due to a lack of accuracy in the clock itself and along the signal transmission path. To support media such as Blu-ray and DVD (video + audio), players need to have multiple clocks, and with Blu-ray and DVD, the video and audio signals need to be synchronized.

Generally, PLL is used to generate clock signals, but they are easily affected by noise during transmission which in turn causes jitter and degrades sound quality. In recent years, greater attention is being focused on the importance of a master clock for the constant management of sampling at fixed intervals.

-Conventional Jitter Suppression

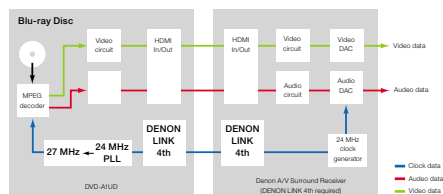
In conventional jitter suppression, the digital audio signal (data) was temporarily stored in the front-stage memory of the audio circuit and output after being synchronized with the clock to achieve low-jitter digital signal transmission.

This method, however, was limited to audio sources on CD. There were basically two reasons for this. The first reason was that the clock frequencies of audio circuits were different from those of video circuits, and the second reason was that while the quantity of audio-only data was not that large and could be stored in memory, the quantity of video data and multi-channel audio data on DVD or Blu-ray disc is too large to store in memory.

-The Advent of DENON LINK 4th, the world's first jitter suppression technology to include video signals. We have succeeded in using DENON LINK (a digital interface) as a dedicated clock signal transmission line to transmit high-grade digital signals in high speed and with negligible influence from external noise. Previously, the purpose of DENON LINK was to transmit the digital audio signals themselves, but the purpose of DENON LINK 4th is to control the clock.

DENON LINK 4th uses the master clock in the A/V Surround Receiver as the reference for controlling the video circuitry and the disc drive in the player, and the digital video and audio signals from Blu-ray disc are transmitted to the A/V Surround Receiver via an HDMI cable. This is how our DENON LINK 4th works. DENON LINK 4th is able to transmit digital audio signals with negligible jitter because it has audio devices share the same clock. In addition, DENON LINK 4th has achieved a world first by suppressing jitter to an absolute minimum even for the playback of Blu-ray discs that include video signals.

Jitter suppression brings exceptional results to three-dimensional playback in such areas as sound localization, sound spaces and sound images. The sound space of a concert hall, for instance, is reproduced so clearly that it feels as though the artists are performing in very close proximity to the listener.



#### • DENON LINK 3rd\*\*\*

Connected via a shielded twisted pair (STP) RJ-45 fitted cable to a DENON Link-compliant A/V amplifier, the balanced signal transfer offers lower voltage than coaxial or unbalanced cables. Since DENON Link is far less susceptible to radiated noise, it ensures the highest level of signal transfer. The DENON Link interface is able to transfer high-grade LPCM 24-bit, 192-kHz, 2-channel and 96-kHz, 24-bit, multi-channel digital output.

#### • Master clock design for more accurate processing and free jitter noise

Various techniques have been adopted to boost the precision of the master clock and ensure meticulous accuracy in D/A conversion. These include stabilizing the power supply and ground potential, and minimizing the length of wires. In addition, by regenerating the master clock with a high-accuracy phase-locked loop (PLL) near the D/A converter, residual jitter is minimized, enabling playback of high-quality sound with clear sound images and contours.

#### • Clock Jitter Reducer available for all digital inputs

The Clock Jitter Reducer thoroughly suppresses fluctuations on the clock waveform to remove distortion from the digital audio signal and minimize adverse influences on sound quality.

#### • USB digital direct connection for iPod/USB memory\* (audio only)

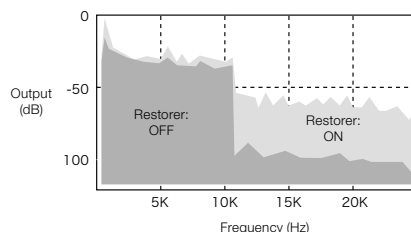
When you connect an iPod or USB memory (containing WMA/MP3 files) to the player's or receiver's USB port, you can play the music files stored on these media. Since the iPod transmits digital signals, the sound you hear as they pass through the Denon's audio circuitry is of much higher quality.

\* Supports USB mass storage class.



#### • Compressed Audio Restorer

Typical compressed audio formats like MP3, AAC, WMA, etc. delete the high frequency signal data substantially while thinning out the data signals, which results in the loss of clarity of the sound. The 'Compressed Audio Restorer' restores the compressed audio signal as close as possible to the original by interpolating and generating the missing data during compression. Added high frequency elements in the compressed audio data place a disproportionate emphasis on the band spreading. The 'Compressed Audio Restorer' fine-tunes the data signal in all frequency by generating harmonic overtone of low frequency. The 'Compressed Audio Restorer' gives second life to the compressed audio data to make them more comfortable and pleasant to listen to by adjusting and clarifying the details of the music sound and improving their stereo image. The quality of the compressed audio signal depends, of course, on the quality of the original source, however, is determined by the compression technology and the transfer bit rate. The 'Compressed Audio Restorer' has 4 modes (Restorer64/Restorer96/RestorerHQ/OFF) and offers most effective performance to any compressed audio signals.



#### • Cinema equaliser

The sound from movie sources recorded in Dolby Digital, DTS or other formats emphasises correction of components that deteriorate in the high-frequency range due to the movie screen. If this sound is reproduced in the home theatre without correction, the high-frequency range is too harsh. The Cinema Equaliser is a function to correct these high-frequency components so that the sound is more natural to listen to. (For Dolby Digital, Dolby Pro Logic, and DTS surround modes)

## Video Quality

#### • Analogue to HDMI up conversion and HDMI to HDMI

Analogue video input signals (composite, S-video, component) are converted to digital video signals and transmitted to the HDMI output port. Digital video signals are sent to HDMI output even when multiple HDMI devices such as a video camera or a game console are connected to the A/V receiver. One HDMI cable is all that's needed to connect the A/V receiver to a TV (monitor).

#### • Denon's high-quality circuitry, to enhance enjoyment of existing DVDs

Up-scaling to a maximum of 1080p is possible for 480i and 576i video signals recorded on DVD or other media. When the Denon A/V Surround Receiver is connected to an HDMI-equipped TV monitor, this feature lets you enjoy your existing DVD content in high-definition picture quality.

#### • Denon Pixel Image Correction

Denon Pixel Image Correction, original enhancement technology from Denon, corrects images in greater detail. Denon's newly-developed contour correction circuit uses a new algorithm that samples a total of 9 pixels of video data to consider the impact of surrounding pixels on important pixels in the enhancement process. Since pixels in the image are detected and processed in vertical, horizontal, and diagonal directions, this technology generates more natural contours. The use of separate algorithms for brightness and color signals, the suppression of ringing that easily occurs during enhancement and other effective processes best suited to the picture also contribute to a more naturally enhanced image with negligible degradation.

#### • Digital Noise Reduction, to optimise effects for both SD and HD content

The DNR technology optimises the effects of high-definition Blu-ray video as well as standard DVD discs.

#### • Source Direct, for faithful output of disc content resolution

Source Direct allows video content to be output to the HDMI or component port in its original recorded resolution.

#### • 1080/24p output, for maximum enhancement of film texture

Denon's Blu-ray Disc Player is equipped with 1080/24p HDMI output functions to faithfully reproduce the realistic video images recorded on Blu-ray discs. When connected to a display supporting 1080/24p, users can enjoy Blu-ray video performance to its maximum effect with the texture of motion picture film. It is also possible to enjoy DVD at 1080/24p quality, giving the same motion picture texture to video images from DVD.

## Advanced features

### • Audyssey DSX processing (Wide and Height)

Audyssey DSX extends 5.1-channel and 7.1-channel sound sources to a wider and higher dimension. A sound that is wider to the left and right is achieved by adding a sound source (LW/RW) that is wider than the usual placement of the front (FL/FR) speakers, and a greater sense of height in sound space is achieved by adding a sound source (LH/RH) in the upper area between the FL(FR) and LW(RW) channels.

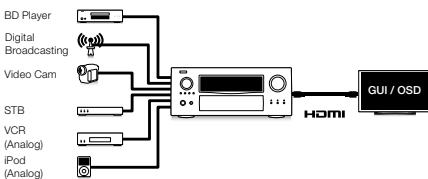
### • Dolby Pro Logic IIz processing (Height extension)

Dolby Pro Logic IIz introduces a new dimension to home theatre entertainment through the addition of a pair of front height channels. Compatible with stereo, 5.1 and 7.1 content, Dolby Pro Logic IIz provides enhanced spaciousness, depth and dimension to movies, concert video and video game playback while maintaining the full integrity of the source mix.

## Ease of use

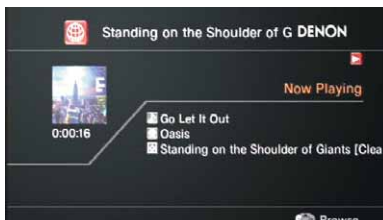
### • HDMI One Cable Connection

All of the models in Denon's A/V Surround Receiver line-up feature Video Conversion that can output various types of video signals to HDMI; Menu Display that outputs settings, status and other menu displays to HDMI; and a Repeater function that allows audio to be output also to the TV speakers. These features make it possible to connect any Denon A/V Surround Receiver to a TV via a single HDMI cable.



### • Advanced GUI

The AVR-4810 and AVR-4310 are equipped with an easy-to-view Graphical User Interface (GUI) featuring visual menu displays and hierarchical directories. The hierarchical directory displays let you easily see where you are and what settings you want to make. Operation has been simplified as well.



### • GUI

The AVR-3310, AVR-2310, DBP-2010 and DBP-1610 are equipped with an easy-to-view Graphical User Interface (GUI) featuring visual menu displays.

### • Audyssey MultEQ Auto setup and Room EQ

A microphone is used to measure the characteristics of the speakers and the listening room. The data is analysed by a high-performance DSP, and the Auto Set-up function automatically makes initial settings for the speakers. The MultEQ technology then processes acoustic data ob-

tained from up to 6 listening positions, and the Room EQ (Equalizer) function corrects the frequency response to achieve the optimum listening environment for the room.

### • Audyssey Dynamic Volume and Dynamic EQ

Audyssey Dynamic Volume constantly monitors the sound sources and adjusts the volume to the optimum level for the particular source being heard without sacrificing dynamic range. It furthermore compensates for the significant volume differences between programmes, for example the volume boost applied to commercial breaks on many TV broadcasts. Denon's A/V Surround Receiver is also equipped with Audyssey MultEQ/ MultEQ XT which measures the acoustic characteristics of the room to obtain the optimum acoustic effects, and Dynamic EQ which reproduces the high and low range with the optimum acoustic effect during low volume levels. Dynamic Volume combines these two functions to achieve maximum performance.



### • 2-line FL display

Current status, such as the input source or audio format, is displayed in two lines. It is also possible to check the name of the album or music track of the memory audio or other items without viewing the TV screen. The 2-line display also makes it possible to easily change settings without the GUI and TV screen.



### • Sleep timer

This function allows you to automatically set the power to standby after the set amount of time has passed.

### • Three quick select buttons

Lets you store your preferred input device, surround mode, master volume and other settings, and call them up at the touch of a button. (Up to three combinations of settings can be stored).

### • Personal memory plus

Personal Memory Plus is a function that allows the receiver to store the surround modes, the level setting for all speakers, as well as the delay time, to further customise the sound source. With the push of a button, the receiver will be turned to the source of choice and the preset settings will be activated.

### • EL programmable remote



### • HDMI CEC

When a TV or player supporting HDMI Control is connected to the Blu-ray Disc Player or A/V Surround Receiver via an HDMI cable, it is possible to use the TV's remote control unit to perform such operations as power on/off, function switching, and volume adjustment.

(Note: Operation may not work with some connected devices or settings.)

## Connectivity & Future-ready Expandability

### Network

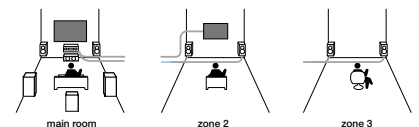
### • Internet Radio and network audio/photo streaming from PC/MAC, server

### • The 'Party Mode' Function; The Mult-zone Networking Streaming

The 'Party Mode' allow you to supply the same music (iPod / Internet Radio / PC music / NAS) up to five rooms including its local music system at the same time among Denon 'Party Mode' compliant products on the network.

### • Multizone /Multi source:

Multi Zone output function and a select function let you output different sources to multiple zones. Sources can be selected for output to the additional zones, in addition to the main room. With models that have variable pre-amp outputs along with a composite video/S-video feed, video signals can be output to an additional zone as well. (The number of additional zones depends on the product.)



### • Power amplifier assign function

#### -(Assignable surround back amplifier)

Power Amplifier Assign function lets you assign the 2 Surround Back (SB L/R) amplifier channels to drive the Zone 2 (or Zone 3) speakers. Or with this function, front speakers can be bi-wired or bi-amped to improve playback quality in the front for enhanced listening enjoyment. (The capability of this function depends on the product)

### • iPod audio/photo and video playback (optional ASD-11R/ASD-51W/ ASD-51N)





With the advent of new high-definition formats and high-definition content, Denon's efforts have resulted in the development of high-end A/V components.





# POA-A1HD

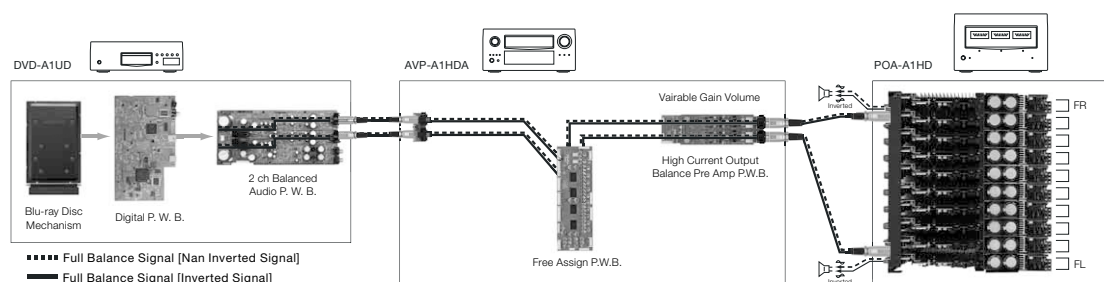
Power amplifier

Reference 300 Watts x 10 channel fully configurable power amplifier



- High-Power amplifier circuit, 300 W x 10 ch (4 ohms)
- Each of 10 channels in independent one-block/mono-block construction.
- Separate winding in power circuit for each channel.
- Can be switched to become a large-output 5ch power amp (500W x 5ch/4 ohms) using bridged connection.
- Fully balanced signal amplification
- All channels of power amp can be assigned to various locations.
- 3 Analogue power meters to visually monitor chosen channels.
- Large solid speaker terminals, made of gold plated, machined brass.

The world's first fully balanced transmission of 2-channel analogue sound in a universal player with Blu-ray\*

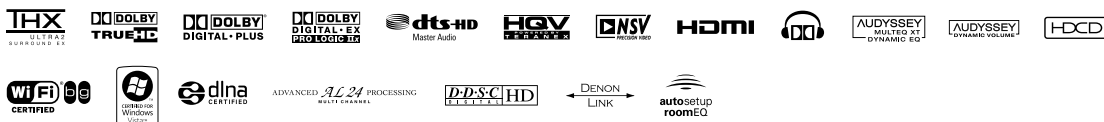


\*For a Blu-ray disc player [as of December 2008] (D&M Holdings survey)

# AVC-A1HDA

A/V surround amplifier

THX® Ultra2 certified Multi-Channel/Zone A/V HD Surround Amplifier  
with ease of use and flexible media connectivity



- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - Discrete Devices for ultimate performance in each block
  - Master clock design for more accurate processing and less jitter noise.
  - Advanced AL24 processing multi channel provides more dynamic range and improve low level sound details.
  - DENON Link 4th
- HD Video Circuit
  - High quality I/P scaling & Motion Adaptive Noise Reduction
  - Discrete devices for ultimate HD video performance in each block
  - REALTA/HQV Processing up to 1080p and 1080p24
  - Denon Picture Image Correction (DPIC) circuitry
  - 12bit/216MHz video encoder and decoder with NSV
  - Analogue to HDMI up conversion and HDMI to HDMI up conversion
- New Chassis Construction for clear audio and video signal with separate unit design
- WEB system control via network
- Digital to analogue audio conversion for multi zone output
- Independent zone component output
- Dual HDMI simultaneous output
- Dual component outut



# DVD-A1UD

Universal audio/video player

The World's First Uncompromised Flagship Universal Player\*

Further advances in digital signal processing technology have been improving the quality of pictures and sound played from packaged media.



- The world's first Universal disc player that also plays Super Audio CD and DVD-Audio(\*1)
- Use of DENON LINK to achieve the world's first jitter-free transmission of digital audio via HDMI(\*1)
- The world's first fully balanced transmission of 2-channel analogue sound in a universal player with Blu-ray(\*1)
- Thoroughly vibration-resistant design with Direct Mechanical Ground Construction
- Advanced S.V.H. Mechanism featuring quiet, vibration-free environment for extreme accuracy in reading signals from disc
- 7-block structure for thorough protection from mutual interference caused by electricity or magnetic fields
- Discrete Devices for ultimate performance in each circuit block (Dynamic Discrete Surround Circuit-HD)
- Advanced AL32 Processing Multi Channel, to bring out the optimum performance of HD Audio
- 32 bit/192 kHz D/A Converter
- Multi-channel support from Denon's proprietary Compressed Audio Restorer function (DVD: Dolby Digital, DTS / CD: MP3, WMA, AAC)
- "A/V Pure Direct", for separated output of audio and video from the HDMI port (Equipped with 2 HDMI output ports)(\*1)
- Dolby Pro Logic IIx and DTS Neo:6 decoding, in addition to full Dolby TrueHD and DTS-HD Master Audio support
- Supports HDCD decoding
- Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs (REALTA)
- Digital Noise Reduction, to optimise effects for both SD and HD content
- 1080/24p output, to bring out the full quality of film
- Denon Pixel Image Correction (D.P.I.C.), for more natural correction of curved lines
- "Dual HD Video Circuit", capable of outputting HD Video through both HDMI and Component output
- The world's first player equipped with "Vertical Stretch" function (supporting Cinema Scope Aspect)(\*1)(\*2)
- "Source Direct", for faithful output of disc content resolution
- HDMI output for HD video and audio signal transmission (Ver.1.3a with Deep Color, High Bit-Rate Audio Output)
- Easy, uniform operation with A/V Receiver via GUI (Graphical User Interface)
- Supports "BONUSVIEW" function
- Supports "BD-Live"
- Supports HDMI Control (Consumer Electronics Control)
- Comes with remote control unit with backlit buttons for easy operation in the dark
- Supports DivX file playback (Ver. 6)
- Supports SD/SDHC cards for playback of various media files
- Supports AVCHD playback from DVD-R/RW
- Ethernet port for "BD-Live" and firmware updates



| A/V surround pre-amplifier/amplifier       | AVP-A1HDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AVC-A1HDA                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Surround format</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| THX SURROUND EX                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| DOLBY                                      | TrueHD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TrueHD                                         |
|                                            | Digital Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Digital Plus                                   |
|                                            | Digital                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Digital                                        |
|                                            | Digital EX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Digital EX                                     |
|                                            | Pro Logic II/ IIx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pro Logic II/ IIx                              |
| DTS                                        | HD High Resolution Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HD High Resolution Audio                       |
|                                            | HD Master Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HD Master Audio                                |
|                                            | ES Discrete6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ES Discrete6.1                                 |
|                                            | ES Matrix6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ES Matrix6.1                                   |
|                                            | Neo:6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Neo:6                                          |
| DTS 96/24                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| HDCD                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| <b>Processor &amp; converter</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| 32-bit floating point DSP                  | High grade x3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | High grade x3                                  |
| 192kHz/24bit D/A Converter for all ch      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| <b>Circuit &amp; construction</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| DDSC-Digital                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| AL24 Processing                            | Advanced                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Advanced                                       |
| Pure direct                                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Variable gain volume control               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| <b>Amplifier</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| Amplifier channels                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7                                              |
| 8ohm rated power output                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 150W                                           |
| 6ohm rated power output                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200 W                                          |
| Full discrete all ch equal power amplifier |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                              |
| Wide range frequency                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                              |
| Surround Back ch amplifier assign          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Front SP Bi-amp/<br>Multizone                  |
| <b>Set up &amp; operation</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| Auto setup with microphone                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Room EQ                                    | • (Audyssey MultEQ XT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | • (Audyssey MultEQ XT)                         |
| Dynamic EQ                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Dynamic Volume                             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| GUI                                        | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| On screen display                          | • (Zone2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | • (Zone2)                                      |
| Remote                                     | EL back light w/GLO-key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EL back light w/GLO-key                        |
| Remote for Zone                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Personal memory plus                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| 3 Quick Select buttons                     | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| <b>Others</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| Audio delay                                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Variable subwoofer crossover switching     | 40/60/80/90/100/<br>110/120/150/200/250Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40/60/80/90/100/<br>110/120/150/200/250Hz      |
| Component video switching                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| S-Video switching                          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Video up/down conversion                   | Composite <-> S-video<br><-> Component -> HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Composite <-> S-video<br><-> Component -> HDMI |
| Component video band width                 | 100MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100MHz                                         |
| Cinema EQ                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Night mode                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| ALL ch binding post SP terminal            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                              |
| Surround SP A/B                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                              |
| Front SP A/B                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                              |
| Tuner                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| RDS (radio data system)                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| Radio Text                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
| Auto surround mode                         | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| Multi channel stereo mode                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                              |
| <b>Common features</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |
|                                            | <ul style="list-style-type: none"> <li>• HDMI repeater over 1.3a (*1)<br/>(HD audio decode/ Deep Color/x.v.Color/ Auto Lipsync)</li> <li>• HDMI One Cable Connection<br/>(Analogue Video to HDMI Up Conversion)</li> <li>• Stable power supply for high-quality sound and picture playback</li> <li>• Compressed Audio Restorer to enhance digital music files<br/>(WMA / MP3 / AAC)</li> <li>• Denon's high picture quality circuitry<br/>to enhance enjoyment of existing DVDs</li> <li>• Audyssey Dynamic Volume, for real-time volume adjustment</li> <li>• Audyssey Dynamic EQ selects the correct frequency response<br/>and surround volume levels on a moment by moment</li> <li>• HDMI CEC</li> <li>• Dolby TrueHD and DTS-HD Master Audio decoders</li> <li>• Audio Delay</li> <li>• Cinema EQ</li> <li>• Personal Memory Plus</li> <li>• Three quick select buttons</li> <li>• Auto surround mode</li> <li>• Multi channel stereo mode</li> </ul> |                                                |

(\*1) HDMI outputs are HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.

| Universal audio/video player                      | DVD-A1UD                                 |
|---------------------------------------------------|------------------------------------------|
| <b>Decoder</b>                                    |                                          |
| DOLBY TrueHD (Bitstream / LPCM)                   | • / •                                    |
| DOLBY Digital Plus (Bitstream / LPCM)             | • / •                                    |
| DTS HD Master Audio (Bitstream / LPCM)            | • / •                                    |
| DTS HD High Resolution Audio (Bitstream / LPCM)   | • / •                                    |
| DOLBY Digital (Bitstream / LPCM)                  | • / •                                    |
| DTS (Bitstream / LPCM)                            | • / •                                    |
| <b>Processor &amp; Converter</b>                  |                                          |
| Video DAC                                         | 297MHz/14bit                             |
| Audio DAC                                         | 192MHz/32bit                             |
| Advanced AL32 processing                          | • (all ch)                               |
| Progressive scan circuit                          | HQV (REALTA)                             |
| PAL / NTSC                                        | • / •                                    |
| <b>Construction &amp; Circuit</b>                 |                                          |
| DDSC HD                                           | •                                        |
| Multi layered construction                        | •                                        |
| Loader mechanism                                  | SVH                                      |
| Pure direct                                       | •                                        |
| <b>Picture &amp; Audio functions</b>              |                                          |
| Denon Pixel Image Correction                      | •                                        |
| Bass management for BD/DVD-Video/ DVD-Audio/ SACD | • / • / • / •                            |
| <b>Video output terminals</b>                     |                                          |
| Composite                                         | 1                                        |
| S-video                                           | 1                                        |
| Component                                         | 1 (RCA)                                  |
| HDMI (*1)                                         | 2                                        |
| <b>Audio output terminals</b>                     |                                          |
| Digital (Coaxial / Optical)                       | 1 / 1                                    |
| Analogue                                          | 2ch x1 (balanced), 7.1ch x1,<br>5.1ch x1 |
| HDMI multi channel audio                          | •                                        |
| <b>Playable discs (*2)</b>                        |                                          |
| BD-Video                                          | •                                        |
| Super audio CD                                    | •                                        |
| DVD-Audio                                         | •                                        |
| DVD-Video                                         | •                                        |
| DVD-R/RW / DVD+R/RW                               | •                                        |
| CD-R/RW (MP3/WMA/AAC/DivX/JPEG/Kodak Picture CD)  | •                                        |
| DVD-R/RW (MP3/WMA/AAC/DivX/AVCHD/JPEG)            | •                                        |
| DivX contents                                     | ver.6                                    |

(\*1) HDMI outputs are HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.

(\*2) Discs that have been poorly finalised following recording may be only partially playable or not playable at all.

## AK-DL1

### DENON Link cable



- High-purity copper wire specially developed for the central conductor is used for the conductive material
- A fluoropolymer superior in heat resistance, weather resistance, and aging resistance is used for the insulation
- A tin-bearing copper alloy has been used for the shield
- The plug lever is in a round shape to prevent bending or breaking
- Direction marks are provided to indicate the correct direction for connecting the cable
- 1.5 meters length



A desire of audiophiles . . .  
Premium picture and sound quality.



\* This product will be available early 2010.

A new proposal from Denon.

There's no Blu-ray Disc / DVD Surround Receiver like it anywhere.

The S-5BD is richly endowed with video and audio technologies developed for high-end models. No-compromise engineering has resulted in a new high-precision mechanism, impeccable craftsmanship from years of experience in audio and home theatre product development, and a treasure-trove of state-of-the-art supporting technologies. Advanced intelligent system automatically recognizes the speakers that are connected and optimizes the system for the space in the room based on a 2-channel or 5-channel speaker system.

Audiophile quality is the ultimate aim whether the S-5BD is used in a full-fledged 5.1-channel home theatre, a 2.1-channel virtual surround system, or for enjoying stereo

music sources. For stereo playback in particular, the S-5BD features the newly-developed 2-channel Dynamic Play Mode that automatically uses the amplifiers of 4 channels to drive the 2 front channels.

Other important features of the S-5BD include not only the ability to connect and enjoy an iPod or USB memory player but also Plug 'n' Play, an intuitive GUI, and a smart function that automatically selects a surround mode to suit the source being played. The innovative and versatile S-5BD eminently meets the challenges of the modern HD home theatre.





## S-5BD

Audiophile quality smart system



- Audio and video quality
  - Newly developed original high-end class BD drive centre mechanism
  - Direct Mechanical Ground construction concept
  - Independent block construction to prevent unwanted mutual interference
  - Independent power supplies for each stages (Digital, Power amplifier, Pre amplifier stages) to realise pure and stable performance, and lower standby power
  - Simple & Straight Signal Path and Minimum Signal Path, integrates Denon A/V and Hi-Fi Components hi-quality sound design, for clean and pure sound
  - Independent high-density PWBs to transfer pure signals
- AL24 processing
- Compressed Audio Restorer
- Strictly selected sound parts, and Denon custom made OFC winding coil for improving linearity and speaker drive
- Speaker Flexibility
  - Drivability of full-bandwidth speakers from 4 ohms to 8 ohms
  - 2.1channel Dynamic Playmode
  - Audyssey MultEQ
- Connectivity
  - Convenient inputs in front (USB/HDMI/SD card/Audio in/Setup MIC/Phones)
  - iPod Direct connectivity via USB port, USB (Mass Storage Class) connectivity
  - Connectivity for Denon Networked Control Dock for iPod
- Ease of Use
  - Plug 'n Play (iPod/USB/Blu-ray/DVD/CD)
  - Automatic sound mode
  - Auto setup
  - Advanced GUI
  - Audyssey Dynamic Volume
  - Easy to use remote control handset
- Supporting Dolby TrueHD, DTS-HD Master Audio, Dolby Digital Plus, Dolby Virtual Speaker, Dolby Pro Logic IIz
- Others
  - Custom Install features
  - 2 Source 2 Zone



# Network



# Bringing you and music together.

The music you love is waiting for you at the place you're going to.

Your living room, kitchen, bedroom, or den . . .

A home interior of your very own is complete with your favorite music.

If you put the new Party Mode function to work, your whole place will be filled with the same music everywhere.

After that, you just wait for the guests to arrive, and the fun to begin.



Plays music files on  
your PC/music server  
(AAC / WMA / MP3 /  
FLAC / WAV)



Plays over 7,000  
internet radio stations



Connects wired &  
wireless to network



Allows you to  
browse through  
Denon's GUI



Let you enjoy  
'Party mode'

## Basic concept of Network

### Building a Network

Denon Networking lets you enjoy the music libraries stored on your computers/music server and music from internet radio stations. For instance, the AVC-A1HDA can receive music files from a computer wirelessly, you can enjoy those files/musics in the room where AVC-A1HDA is placed.

### Adding non-networking audio devices to the network

Let's set up an ASD-51W. The ASD-51W not only connects an iPod to the non-networking A/V Receiver, it also networks with computers. It's easy to select music files, too. You use the ASD-51W's remote control unit to select music while viewing the TV screen connected to the A/V Receiver. This is easy to do thanks to the GUI in the ASD-51W. If you have a stereo receiver or integrated amp, you connect the ASD-51W to the amp and your TV to the ASD-51W. You can enjoy music libraries from your computers in the same way with this setup.

## Party mode

### The Multi-zone Networking Streaming

The 'Party Mode' allow you to supply same music (iPod / Internet Radio / PC music / NAS) up to five rooms including its local music system at the same time among Denon 'Party Mode' compliant products on the network.



Network compliant A/V receivers  
AVP-A1HDA (page 13)  
AVC-A1HDA (page 15)  
AVR-4810 (page 27)(Party mode)  
AVR-4310 (page 28)(Party mode)  
AVR-3310 (page 29)(Party mode)



For non-networking products  
ASD-51W/N (page 33) (Party mode)



The Denon Blu-ray Disc player gives you the best of Denon's renowned experience in pure audio, and meticulous focus on picture and sound quality.



## DVD-3800BD

Blu-ray disc player

Blu-ray disc player with Denon's high picture and sound quality circuitry



- 1080/24p output, to bring out the full quality of film
- HDMI output for HD video and audio signal transmission (Ver.1.3a with Deep Color, High Definition Audio Output)
- Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs
- Digital Noise Reduction, to optimize effects for both SD and HD content
- DENON Pixel Image Correction (D.P.I.C.), for more natural correction of curved lines
- High-speed, high-precision 12-bit/297-MHz Video DAC
- Detailed picture quality adjustability
- Dynamic Discrete Surround Circuit-HD
- Supports new-generation HD audio output with full decoding of Dolby TrueHD & DTS-HD Master Audio (bitstream / LPCM)
- Advanced AL24 Processing, original Denon technology for high sound quality
- Pure Direct mode, for greater audio signal purity
- Separate blocks to suppress interference between circuits
- Precision Drive Mechanism, a Denon original
- Simultaneous video output through all ports including HDMI and Component
- Supports DivX file playback (Ver. 6)
- Supports SD/SDHC cards for playback of various media files
- Supports "BONUSVIEW" function
- Includes easy-to-use remote control unit
- Plays a wealth of media formats
  - BD-ROM (BD-video)
  - DVD-video
  - DVD-R/DVD-RW/DVD+RW/DVD+R
  - CD (CD-DA)
  - CD-R/CD-RW (MP3/WMA)
  - CD-R/CD-RW (JPEG)

## DVD-2500BT

Blu-ray disc transport

New-generation HD bitstream output support.



- BD transport for faithful transmission of Full HD video and HD audio signal
- 1080/24p output, to bring out the full quality of film
- HDMI output for HD video and audio signal transmission (Ver.1.3a with Deep Color, High Definition Audio Output)
- I/P conversion and scaling up to 1080p
- Separate blocks to suppress interference between circuits
- Precision Drive Mechanism, a Denon original
- Supports DivX file playback (Ver. 6)
- Supports SD/SDHC cards for playback of various media files
- Supports "BONUSVIEW" function
- Includes easy-to-use remote control unit
- Plays a wealth of media formats
  - BD-ROM (BD-video)
  - DVD-video
  - DVD-R/DVD-RW/DVD+RW/DVD+R
  - CD (CD-DA)
  - CD-R/CD-RW (MP3/WMA)
  - CD-R/CD-RW (JPEG)

## DBP-2010

### Blu-ray disc player

Blu-ray disc player offering full support of Dolby TrueHD, DTS-HD Master Audio and featuring high quality 10-bit video processing for both HD and SD sources.



- Full support of Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
- 1080p/24 video output, to bring out the full quality of film
- HDMI (ver. 1.3a supporting Deep Color, "x.v.Color", High Definition Audio output)
- High bit i/p converter and Scaler up to 1080p from standard DVDs
- BD-Live support (Profile 2.0)
- AVCHD and DivX HD support
- HDMI Control (CEC)
- Ethernet port for BD Live and firmware updates
- HDMI Source Direct mode to output native resolution of the disc
- Dolby TrueHD and DTS-HD Master Audio HDMI output
- 7.1ch analogue audio outputs with full decoding of Dolby TrueHD and DTS-HD Master Audio
- A dedicated 2-channel audio output
- Bass Management for 7.1ch analogue output
- High quality 24-bit/192kHz audio converters for all 7.1ch + 2ch analogue outputs
- Audio parts strictly selected for high quality sound
- Pure Direct Mode
- Independent audio block design to reduce interferences from high frequency noise
- Denon's High Picture Quality Circuitry, to visually enhance your DVDs
- 3-D Digital Noise Reduction
- 12-bit video encoder with NSV (Noise Shaped Video) technology
- HDMI Source Direct mode to output native resolution of the disc
- Picture Adjustments
- Independent digital and analogue block design to reduce interferences from digital noise
- User friendly GUI
- Glo-key remote controller
- Remote In/Out Connection
- RS-232C Connection
- Remote Lock Mode

## DBP-1610

### Blu-ray disc player

Blu-ray disc player offering full support of Dolby TrueHD, DTS-HD Master Audio and high definition video experience.



- Full support of Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
- 1080p/24 video output, to bring out the full quality of film
- HDMI (ver. 1.3a supporting Deep Color, "x.v.Color", High Definition Audio output)
- I/P converter and scaler up to 1080p from standard DVDs
- BD-Live support (Profile 2.0)
- AVCHD and DivX HD support
- HDMI Control (CEC)
- Ethernet port for BD Live and firmware updates
- HDMI Source Direct mode to output native resolution of the disc
- Dolby TrueHD and DTS-HD Master Audio HDMI output
- 2-channel audio output
- High quality 24-bit/192kHz audio converter
- Audio parts strictly selected for high quality sound
- Pure direct mode
- Independent audio block design to reduce interferences from high frequency noise
- Denon's high picture quality circuitry, to visually enhance your DVDs
- 1080p/24 video output, to bring out the full quality of film
- 3-D digital noise reduction
- HDMI source direct mode to output native resolution of the disc
- Picture adjustments
- Independent digital and analogue block design to reduce interferences from digital noise
- User friendly GUI
- Glo-key remote controller
- Remote In/Out connection
- Remote lock mode

# DVD-1740

## DVD player

DVD Video/CD player featuring HDMI scaling



Progressive Scan

HDMI



MP3

WMA



- HDMI (\*1) output (480p/720p/1080i/1080p Scaling)
- Progressive Scan
- Picture Adjustment function  
(Brightness/Contrast/Colour/Gamma Correction/Sharpness)
- DVD-R/RW Playback
- CD-R/RW and DVD-R/RW  
(MP3/Windows Media Audio/JPEG/Kodak Picture CD/DivX) Playback
- JPEG slide show
- KODAK picture CD compatible
- 24-bit, 192-kHz High Resolution Audio D/A Converters
- 12-bit, 108 MHz High Resolution Video D/A Converter
- VSS (Virtual Surround Sound)
- Discrete Remote Control commands for Power On/Off
- Display Dimmer Key
- Picture Zooming (x2 or x4)
- DivX Ultra

- PCM, Dolby Digital and DTS Digital Output
- 24/96 PCM Digital Output Capability
- OSD GUI
- A Wealth of Playback Functions
- 2 MB Buffer Memory
- Auto Power Off
- Marker Function
- Dialog Speed Control
- Supports PAL and NTSC (PAL/NTSC conversion)

(\*1) Version 1.0 compliant. HDMI audio output capacity is dependent on the monitor being used. HDMI outputs is HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.

\*Official DivX® Ultra Certified product

\*Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format

| Universal audio/video player/ Blu-ray disc player/Blu-ray disc transport | DVD-3800BD       | DBP-2010         | DBP-1610       | DVD-2500BT |
|--------------------------------------------------------------------------|------------------|------------------|----------------|------------|
| <b>Decoder</b>                                                           |                  |                  |                |            |
| DOLBY TrueHD (Bitstream / LPCM)                                          | • / •            | • / •            | • / •          | • / -      |
| DOLBY Digital Plus (Bitstream / LPCM)                                    | • / •            | • / •            | • / •          | • / -      |
| DTS HD Master Audio (Bitstream / LPCM)                                   | • / •            | • / •            | • / •          | • / -      |
| DTS HD High Resolution Audio (Bitstream / LPCM)                          | • / •            | • / •            | • / •          | • / -      |
| DOLBY Digital (Bitstream / LPCM)                                         | • / •            | • / •            | • / •          | • / •      |
| DTS (Bitstream / LPCM)                                                   | • / •            | • / •            | • / •          | • / •      |
| <b>Processor &amp; Converter</b>                                         |                  |                  |                |            |
| Video DAC                                                                | 297MHz/12bit     | 297MHz/12bit     | 148.5MHz/12bit |            |
| Audio DAC                                                                | 192MHz/24bit     | 192MHz/24bit     | 192MHz/24bit   |            |
| Advanced AL24 processing                                                 | • (all ch)       |                  |                |            |
| Progressive scan circuit                                                 | HQV (REALTA)     | •                | •              | •          |
| PAL / NTSC                                                               | • / •            | • / •            | • / •          | • / •      |
| <b>Construction &amp; Circuit</b>                                        |                  |                  |                |            |
| DDSC HD                                                                  | •                |                  |                |            |
| Multi layered construction                                               | •                | •                |                | •          |
| Loader mechanism                                                         | SVH              |                  |                | SVH        |
| Pure direct                                                              | •                | •                | •              | •          |
| <b>Picture &amp; Audio functions</b>                                     |                  |                  |                |            |
| Denon Pixel Image Correction                                             | •                |                  |                |            |
| Bass management for BD/DVD-Video                                         | • / •            | • / •            |                |            |
| <b>Video output terminals</b>                                            |                  |                  |                |            |
| Composite                                                                | 1                | 1                | 1              |            |
| S-video                                                                  | 1                |                  |                |            |
| Component                                                                | 1 (RCA) , 1(BNC) | 1                | 1              |            |
| HDMI (*2)                                                                | 1                | 1                | 1              | 1          |
| <b>Audio output terminals</b>                                            |                  |                  |                |            |
| Digital (Coaxial / Optical)                                              | 1/1              | 1/               | 1/             |            |
| Analogue                                                                 | 2ch x1, 7.1ch x1 | 2ch x1, 7.1ch x1 | 2ch x 1        |            |
| HDMI multi channel audio                                                 | •                | •                | •              | •          |
| <b>Playable discs (*1)</b>                                               |                  |                  |                |            |
| Super audio CD                                                           |                  |                  |                |            |
| DVD-Audio                                                                |                  |                  |                |            |
| DVD-Video                                                                | •                | •                | •              | •          |
| DVD-R/RW / DVD+R/RW                                                      | •                | •                | •              | •          |
| CD-R/RW (MP3/WMA/JPEG/Kodak Picture CD)                                  | •                | •                | •              | •          |
| DVD-R/RW (MP3/WMA/JPEG)                                                  | •                | •                | •              | •          |
| DivX contents                                                            | ver.6            | DivX HD          | DivX HD        | ver.6      |

| DVD player                                             | DVD-1740     |
|--------------------------------------------------------|--------------|
| <b>Decoder</b>                                         |              |
| DOLBY Digital                                          | • (2ch)      |
| DTS                                                    |              |
| <b>Processor &amp; Converter</b>                       |              |
| Video DAC                                              | 108MHz/12bit |
| Audio DAC                                              | 192MHz/24bit |
| Advanced AL24 processing                               |              |
| AL24 processing                                        |              |
| Progressive scan circuit                               |              |
| PAL / NTSC                                             | • / •        |
| <b>Construction &amp; Circuit</b>                      |              |
| D.D.V.C.                                               |              |
| Multi layered construction                             |              |
| Loader mechanism                                       |              |
| Pure direct                                            |              |
| <b>Picture &amp; Audio functions</b>                   |              |
| Denon Pixel Image Correction                           |              |
| Bass management for DVD-Video/ DVD-Audio/ SuperAudioCD |              |
| <b>Video output terminals</b>                          |              |
| Composite                                              | 1            |
| SCART                                                  | 1            |
| Component                                              | 1            |
| HDMI (*2)                                              | 1            |
| <b>Audio output terminals</b>                          |              |
| Digital (Coaxial / Optical)                            | 1/1          |
| Analogue                                               | 2ch x1       |
| HDMI multi channel audio                               |              |
| <b>Playable discs (*1)</b>                             |              |
| Super audio CD                                         |              |
| DVD-Audio                                              |              |
| DVD-Video                                              | •            |
| DVD-R/RW / DVD+R/RW                                    | •            |
| CD-R/RW (MP3/WMA/JPEG/Kodak Picture CD)                | •            |
| DVD-R/RW (MP3/WMA/JPEG)                                |              |
| DivX contents                                          | Ultra        |

(\*1) Discs that have been poorly finalised following recording may be only partially playable or not playable at all.

(\*2) HDMI outputs are HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.



A/V Surround Receiver, lavishly endowed with technology and experience inherited from Denon's high-end A/V components.

This rich line-up meets the needs of home theatre enthusiasts and beginners alike.

# AVR-4810

A/V Surround Receiver

Versatile and uncompromising upper class A/V Surround Receiver with 9 ch amplifier, network audio, photo streaming and more, for home entertainment enthusiasts



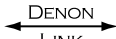
- Identical quality and power for all 9 channels, 180 W x 9 ch
- HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)
- HDMI one cable Connection (Analogue Video to HDMI Up conversion) to your HDTV
- HDMI Clock Control via DENON LINK 4th
- Clock Jitter Reducer available for all digital inputs
- Audyssey DSX processing
- High bit i/p converter and scaler up to 1080p
  - Multi cadence detection for SD and HD video signal
  - Digital noise reduction and enhancer
- Denon's high picture quality circuitry, to enhance enjoyment of existing DVDs
- USB digital direct connection for iPod (audio only)
- Enhance network capability
  - Wi-Fi (802.11 b/g compatible)
  - Internet Radio and network audio/photo streaming from PC/MAC, server
  - Napster online subscription based service support (Napster Germany and Napster UK)
  - Party Mode
  - Web control
  - Firmware updates and upgrades
- Advanced GUI, Superimposed on HDMI (up to 1080p)
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - New dual 32-bit floating point high precision DSP processors
  - Advanced AL24 Processing Multi Channel provides more dynamic range
  - Differential D/A Converters
- Video digital noise reduction, to optimise effects for both SD and HD content
- Vertical Stretch (supporting the CinemaScope aspect ratio)
- Dual HDMI outputs enabling simultaneous output to video projector and flat panel
- Mass storage support USB for audio and photo playback (MTP compatible)
- Audyssey MultEQ XT Auto setup and Room EQ
- Zone 4 optical digital audio output
- Remote Installer Access
- PC setup via Ethernet (Web setup)
- EL pre memory & learning remote control unit +zone remote control unit
- High grade binding post speaker terminals for all channels



# AVR-4310

A/V Surround Receiver

A/V Surround Receiver featuring advanced connectivity, network audio and photo streaming and an interface that enhances your level of entertainment enjoyment



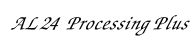
- Identical quality and power for all 7 channels, 170 W x 7 ch
- HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)
- HDMI one cable Connection (Analogue Video to HDMI Up conversion) to your HDTV
- HDMI Clock Control via DENON LINK 4th
- 7ch Discrete Mono Amp Construction
- Clock Jitter Reducer available for all digital inputs
- Audyssey DSX processing
- High bit i/p converter and scaler up to 1080p
  - Multi cadence detection for SD and HD video signal
  - Digital noise reduction and enhancer
- Denon's high picture quality circuitry, to enhance enjoyment of existing DVDs
- USB digital direct connection for iPod (audio only)
- Enhance network capability
  - Internet Radio and network audio/photo streaming from PC/MAC, server
  - Napster online subscription based service support (Napster Germany and Napster UK)
  - Party Mode
  - Web control
  - Firmware updates and upgrades
- Advanced GUI, Superimposed on HDMI (up to 1080p)
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - New dual 32-bit floating point high precision DSP processors
  - AL24 Plus processing, to dramatically enhance the music listening experience
  - Differential D/A Converters
- Video digital noise reduction, to optimise effects for both SD and HD content
- Vertical Stretch (supporting the CinemaScope aspect ratio)
- Dual HDMI outputs enabling simultaneous output to video projector and flat panel
- Mass storage support USB for audio and photo playback (MTP compatible)
- Audyssey MultEQ XT Auto setup and Room EQ
- Remote Installer Access
- PC setup via Ethernet (Web setup)
- EL pre memory & learning remote control unit +zone remote control unit



# AVR-3310

A/V Surround Receiver

A/V Surround Receiver featuring advanced connectivity, network audio and photo streaming and an interface that enhances your level of entertainment enjoyment



- Identical quality and power for all 7 channels, 160 W x 7 ch
- HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)
- HDMI one cable Connection (Analogue Video to HDMI Up conversion) to your HDTV
- 7ch Discrete Mono Amp Construction
- Clock Jitter Reducer available for all digital inputs
- High bit i/p converter and scaler up to 1080p
  - Multi cadence detection for SD and HD video signal
  - Digital noise reduction and enhancer
- Network capability
  - Internet Radio and network audio/photo streaming from PC/MAC, server
  - Napster online subscription based service support (Napster Germany and Napster UK)
  - Party Mode
  - Web control
  - Firmware updates and upgrades
- On-Board GUI via HDMI output (up to 1080p)
- DENON's high picture quality circuitry, to enhance enjoyment of existing DVDs
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - New dual 32-bit floating point high precision DSP processors
  - AL24 Plus processing, to dramatically enhance the music listening experience
  - Differential D/A Converters
- Video digital noise reduction, to optimise effects for both SD and HD content
- Bi-amp capability
- Internet Radio and Network audio/photo streaming from PC/MAC, server
- Mass storage support USB for audio and photo playback (MTP compatible)
- Audyssey MultEQ Auto setup and Room EQ
- Remote Installer Access
- PC setup via Ethernet (Web control)
- Pre memory remote control unit + zone remote control unit



# AVR-2310

A/V Surround Receiver

A/V Surround Receiver featuring Dolby TrueHD,  
DTS-HD Master Audio and Multi Room functionality



- Identical quality and power for all 7 channels, 135 W x 7 ch
- HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)
- HDMI one cable Connection (Analogue Video to HDMI Up conversion) to your HDTV
- Dolby ProLogic IIz
- High bit i/p converter and scaler up to 1080p (for analogue and HDMI video signals)
  - Multi cadence detection for SD and HD video signal
  - Digital noise reduction and enhancer
- Video digital noise reduction, to optimise effects for both SD and HD content
- DENON's high picture quality circuitry, to enhance enjoyment of existing DVDs
- On-Board GUI, Superimposed on HDMI (up to 1080p)
- Bi-amp capability
- Audyssey MultEQ Auto setup and Room EQ, Audyssey Dynamic Volume/Dynamic EQ
- 2-line fluorescent display on front panel
- 2 way remote ready
- Audio/video playback and control for iPod and network with optional dock (ASD-11R/ASD-51N/ASD-51W)
- Pre memory remote control unit

# AVR-1910

A/V Surround Receiver

7 ch entry class A/V Surround Receiver featuring Dolby TrueHD,  
DTS-HD Master Audio and 1080p HD Video



Denon AVR-1910  
September 2009



- Identical quality and power for all 7 channels, 125 W x 7 ch
- HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)
- HDMI one cable Connection (Analogue Video to HDMI Up conversion) to your HDTV
- Dolby ProLogic IIz
- High bit i/p converter and scaler up to 1080p (for analogue and HDMI video signals)
  - Multi cadence detection for SD and HD video signal
  - Digital noise reduction and enhancer
- Denon's high picture quality circuitry, to enhance enjoyment of existing DVDs
- On-Screen Display
- Audyssey MultEQ Auto setup and Room EQ, Audyssey Dynamic Volume/Dynamic EQ
- Audio/video playback and control for iPod and network with optional dock (ASD-11R/ASD-51N/ASD-51W)
- Pre memory remote control unit

# AVR-1610

A/V Surround Receiver

5 ch A/V Surround Receiver featuring Dolby TrueHD,  
DTS-HD Master Audio and 1080p HD Video



- Identical quality and power for all 5 channels, 110 W x 5 ch
- HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)
- HDMI one cable Connection (Analogue Video to HDMI Up conversion) to your HDTV
- Dolby ProLogic IIz
- Audio/video playback and control for iPod and network with optional dock (ASD-11R/ASD-51N/ASD-51W)
- On-Screen Display via HDMI
- Audyssey MultEQ Auto setup and Room EQ, Audyssey Dynamic Volume/Dynamic EQ
- Pre memory remote control unit

## SYS-57HT

5.1ch Speaker System

### Satellite speakers SC-A76

- 9 cm mid-bass drivers and 1.9 cm tweeter
- MDF wooden cabinet
- Magnetically shielded
- Built-in wall mount brackets
- Removable grilles

### Subwoofer DSW-76

- 20 cm down-firing design
- 100 watt power amplifier
- LF Direct mode
- Volume adjustment
- Cross over frequency adjustment

### Centre speaker SC-C76

- Dual 9 cm mid-bass drivers
- 1.9 cm soft dome tweeter
- MDF wooden cabinet
- Magnetically shielded
- Built-in wall mount brackets
- Removable grilles



## AK-HM500

(5 metres length)

## AK-HM300

(3 metres length)

## AK-HM100

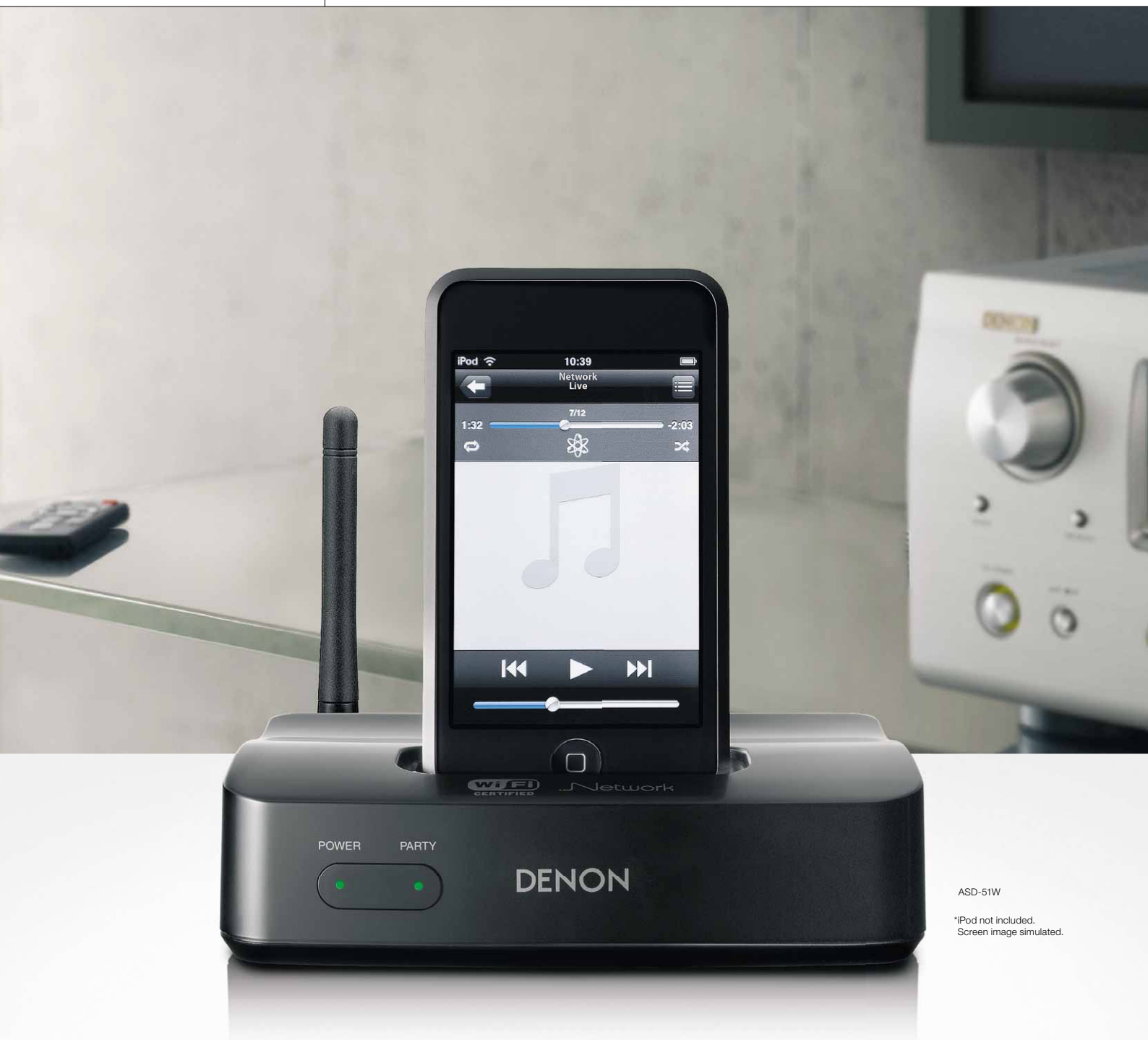
(1 metre length)

HDMI cable



- Officially HDMI certified
- 1080p compliant
- Included cable holder to secure connection
- Transmit both high-definition (HD) video and multi-channel (surround) audio signals
- External mesh, to minimise vibration inside the cable and from external noise
- Triple-layer shielding, eliminate mutual interference inside the cable and shut out external noise
- Twisted construction, to prevent interference from electro-magnetic noise
- Durable 24k gold plated contacts, to minimise signal degradation caused by contact resistance





ASD-51W

\*iPod not included.  
Screen image simulated.

Bringing your favourite contents back into your place.

And ASD-51N adds another level of connectivity for iPod users.



# ASD-51W

(wireless and wired)

## ASD-51N

(wired)

Control dock for iPod



- Playback Music/Photo Files from PC or Music Server
  - ASD-51W/N can access Windows Media Player (\*1) to get music, photos and playlists come from your PC.
  - ASD-51W features Wi-Fi connectivity supporting IEEE802.11b and g and Wi-Fi Protected Setup (WPS) for an easier security setup (\*2)
  - [Supported files] WMA, AAC (\*3), MP3, WAV, FLAC for audio and JPEG for photos

- Internet Radio
 

You can access radio stations via "vTuner" service, and enjoy your favorite music channels without a PC.

- The 'Party Mode' Function: The Multi-zone Network Streaming
 

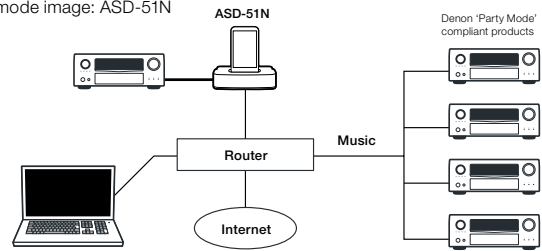
The ASD-51W can supply same music (iPod / Internet Radio / PC music / NAS) up to five rooms including its local music system at the same time when connected to other Denon devices on the network.

- GUI (Graphical User Interface) Operation
 

To allow easier browsing and playback of your files, the ASD-51W provide an intuitive GUI with album artwork via S-Video connection. Multi language for both GUI and Meta Data are available. (English, French, Spanish, German, Japanese)



Party mode image: ASD-51N



- iPod Command and Control
 

ASD-51W/N has capability of control your iPod via remote and playback music, photo slideshows and videos while also recharging your iPod.
- Digital Coaxial Output for iPod
- Supported iPods
 

The ASD-51W supports any iPod equipped with a Dock connector (except the 3rd and 4th generation, iPod mini, and iPod Photo).

For latest compatible lists, please visit: [www.denon.com/asd-51/](http://www.denon.com/asd-51/)
- Supported web control
- Dimensions (W x H x D): 140 x 40 x 110 mm / Weight: 320 g

\*1: Windows Media Player version 11 or latest version is required.

\*2: The access point needs to support WPS.

\*3: Non-DRM files only.

# ASD-11R

Control dock for iPod



- Enjoy photos and videos from your iPod
 

The ASD-11R lets you connect your iPod to a Denon component with Dock Control and play the photos and videos stored in your iPod.
- Enjoy music from your iPod with high quality sound
 

The ASD-11R allows you to connect your iPod to a Denon component with Dock Control and play the music stored in your iPod without losing sound quality.
- Display iPod information on your TV
 

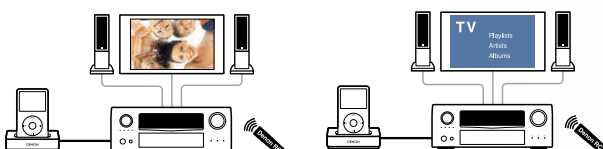
You can monitor iPod text information, such as menus and track names, on a TV screen, or the front display of a Denon component with Dock Control.
- Recharge your iPod
 

The battery is charged automatically when the iPod is inserted into the ASD-11R.
- Supported iPods
 

The ASD-11R supports iPods equipped with Dock Connector Port (4th-generation iPod or later (including iPod classic), iPod nano and iPod touch\*).

For more details on compliant models, please visit [www.denon.com/asd-11r/](http://www.denon.com/asd-11r/)

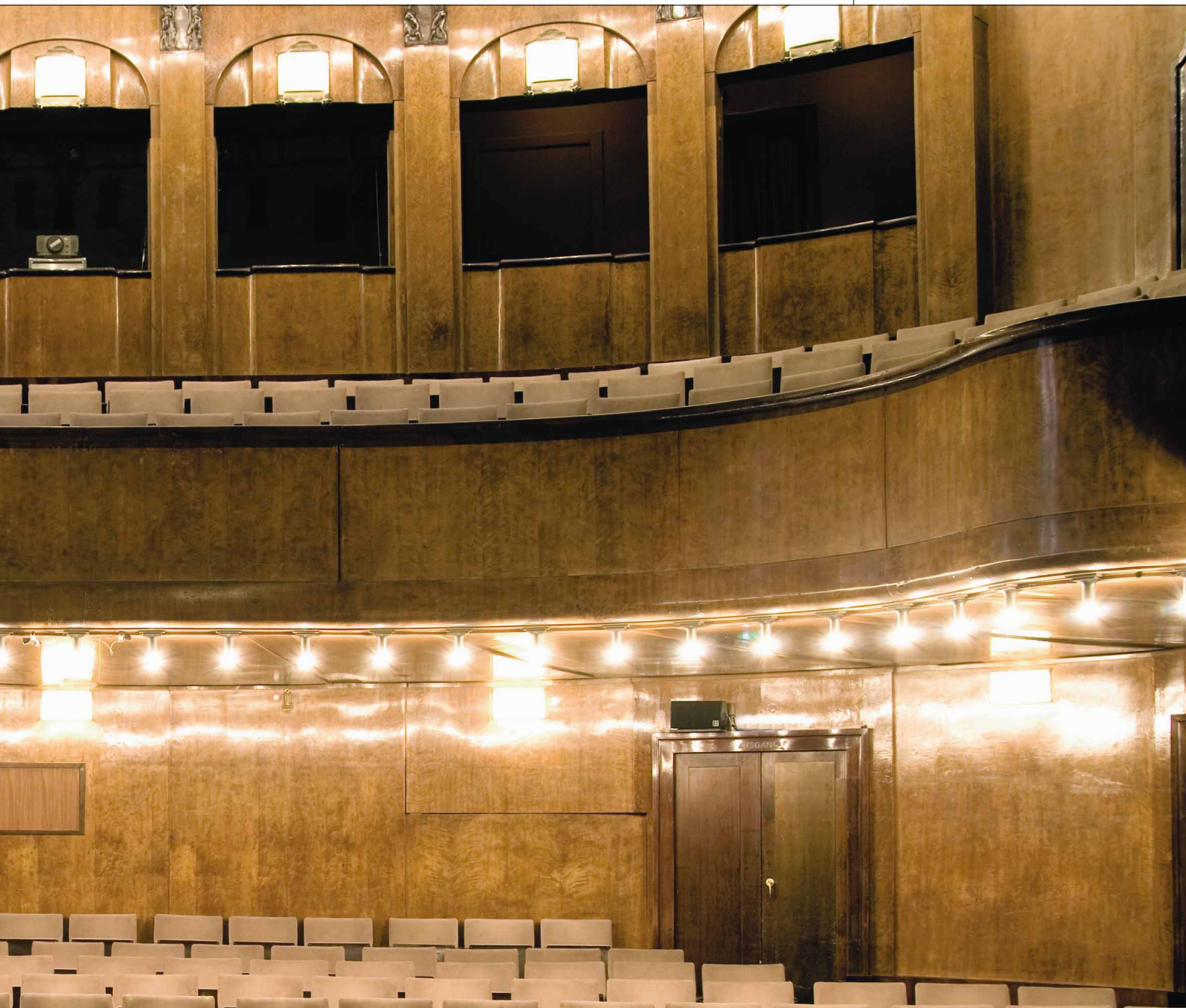
Dimensions (W x H x D): 104 x 28.5 x 76.5 mm / Weight: 220g

\*iPod not included  
\*Screen image simulated

| A/V Receivers                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | AVR-4810                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AVR-4310                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AVR-3310                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Common features</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)*</li> <li>Stable power supply for high-quality sound and picture playback</li> <li>Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance</li> <li>Audyssey Dynamic Volume, for real-time volume adjustment</li> <li>HDMI CEC</li> <li>Sleep timer function</li> </ul> |                                 | <ul style="list-style-type: none"> <li>HDMI One Cable Connection (Analogue Video to HDMI Up Conversion)</li> <li>Compressed Audio Restorer to enhance digital music files (WMA / MP3 )</li> <li>Minimum Signal Path for clear audio and video signal</li> <li>Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment</li> <li>Dolby TrueHD and DTS-HD Master Audio decoders</li> <li>Tuner with RadioText and RDS</li> </ul> | <ul style="list-style-type: none"> <li>HDMI One Cable Connection (Analogue Video to HDMI Up Conversion)</li> <li>Compressed Audio Restorer to enhance digital music files (WMA / MP3 )</li> <li>Minimum Signal Path for clear audio and video signal</li> <li>Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment</li> <li>Dolby TrueHD and DTS-HD Master Audio decoders</li> <li>Tuner with RadioText and RDS</li> </ul> | <ul style="list-style-type: none"> <li>HDMI One Cable Connection (Analogue Video to HDMI Up Conversion)</li> <li>Compressed Audio Restorer to enhance digital music files (WMA / MP3 )</li> <li>Minimum Signal Path for clear audio and video signal</li> <li>Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment</li> <li>Dolby TrueHD and DTS-HD Master Audio decoders</li> <li>Tuner with RadioText and RDS</li> </ul> |
| <b>Surround format</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| THX SURROUND EX                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DOLBY                                                                                                                                                                                                                                                                                                                                                                                                                                            | TrueHD                          | TrueHD                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TrueHD                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TrueHD                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Digital Plus                    | Digital Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Digital Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Digital Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Digital                         | Digital                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Digital                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Digital                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Digital EX                      | Digital EX                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Digital EX                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Digital EX                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pro Logic II/ IIx               | Pro Logic II/ IIx                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pro Logic II/ IIx                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pro Logic II/ IIx                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DTS                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pro Logic IIz                   | Pro Logic IIz                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pro Logic IIz                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pro Logic IIz                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HD High Resolution Audio        | HD High Resolution Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HD High Resolution Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HD High Resolution Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HD Master Audio                 | HD Master Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HD Master Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HD Master Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ES Discrete6.1                  | ES Discrete6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ES Discrete6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ES Discrete6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ES Matrix6.1                    | ES Matrix6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ES Matrix6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ES Matrix6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Audyssey DSX                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DTS 96/24                                                                                                                                                                                                                                                                                                                                                                                                                                        | •                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| HDCD                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Processor &amp; converter</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 32-bit floating point DSP                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | High grade x3                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | High grade x2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | High grade x1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 192kHz/24bit D/A Converter for all ch                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Circuit &amp; construction</b>                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>DDSC-Digital</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AL24 Processing                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Advanced                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DENON LINK 4th                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clock Jitter Reducer                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pure direct                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Variable gain volume control                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Amplifier</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Amplifier channels                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8ohm rated power output                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 | 140W                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 130W                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120W                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6ohm rated power output                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 | 180 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 170W                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 160W                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Full discrete all ch equal power amplifier                                                                                                                                                                                                                                                                                                                                                                                                       |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Wide range frequency                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power amplifier assign                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | • free (incl. zone 2 or 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | for zone 2 or 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | for zone 2 or 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Surround Back ch amplifier assign                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | Front SP Bi-amp/Height/Wide/<br>Multizone                                                                                                                                                                                                                                                                                                                                                                                                                                         | Front SP Bi-amp/Height/Wide/<br>Multizone                                                                                                                                                                                                                                                                                                                                                                                                                                         | Front SP Bi-amp/Height<br>Multizone                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Set up &amp; operation</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Auto setup with microphone                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Room EQ                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 | • (Audyssey MultEQ XT)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • (Audyssey MultEQ XT)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • (Audyssey MultEQ XT)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| User interface                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | Advanced GUI                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Advanced GUI                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GUI                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Remote                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | EL back light                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EL back light                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Flip remote                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Remote for Zone                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Others</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Multi Zone/ Multi Source                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | 3/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Variable subwoofer crossover switching                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | 40/60/80/90/100/<br>110/120/150/200/250Hz                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40/60/80/90/100/<br>110/120/150/200/250Hz                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40/60/80/90/100/<br>110/120/150/200/250Hz                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Video up/down conversion                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | Composite <-> S-video<br><-> Component -> HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                    | Composite <-> S-video<br><-> Component -> HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                    | Composite <-> S-video<br><-> Component -> HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Video scaler                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | up to 1080p/1080p24                                                                                                                                                                                                                                                                                                                                                                                                                                                               | up to 1080p/1080p24                                                                                                                                                                                                                                                                                                                                                                                                                                                               | up to 1080p/1080p24                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Component video band width                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 | 100MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Network music / photo streaming                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Wireless LAN/ Wired LAN                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wired LAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wired LAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| iPod/USB Direct Play                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | • / •                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • / •                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - / •                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Surround SP A/B                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Front SP A/B                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>IN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | HDMI                            | x 6 (incl. front panel)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | x 6 (incl. front panel)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | x 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Component                       | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S-Video                         | x 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Composite (Video)               | x 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Analogue audio (Tuner included) | x 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | x 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | x 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Analogue EXT. In                | 7.1 ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.1 ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.1 ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Digital Optical                 | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Digital Coaxial                 | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Denon Link 4th                  | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Phones                          | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>OUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       | HDMI monitor                    | x 2 (Repeater and scaler)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | x 2 (Repeater and scaler)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | x 1 (Repeater and scaler)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Component                       | Monitor x 1<br>Zone 2 monitor x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Monitor x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Monitor x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S-Video                         | Monitor x 1<br>REC x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Monitor x 1<br>REC x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Monitor x 1<br>REC x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Composite                       | Monitor x 1<br>REC x 2<br>Zone2 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                               | Monitor x 1<br>REC x 2<br>Zone2 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                               | Monitor x 1<br>REC x 2<br>Zone2 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Analogue audio                  | REC x 2<br>Zone2 x 1<br>Zone3 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REC x 2<br>Zone2 x 1<br>Zone3 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REC x 2<br>Zone2 x 1<br>Zone3 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Analogue preout                 | x 1 (11.3 ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | x 1 (7.1 ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | x 1 (7.1 ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Digital optical                 | x 1 (REC)<br>x 1 (Zone4)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Phones                          | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Others                          | Trigger +12 V, 250 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                             | x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RS-232C                         | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Others</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tuner antenna AM/FM             | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Remote In/Out                   | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ethernet                        | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wi-Fi (WLAN Antenna)            | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | USB                             | x 2 (front or backpanel)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | x 2 (front or backpanel)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Dock control                    | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Setup mic                       | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| A/V Receivers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | AVR-2310                                                                               | AVR-1910                                                                               | AVR-1610                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Common features</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                                                                        |                                                                                        |                                                                                        |
| <ul style="list-style-type: none"> <li>• HDMI (ver. 1.3a supporting HD audio decode/ Deep Color/ "x.v.Color"/ Auto Lipsync) (repeater)"</li> <li>• HDMI One Cable Connection (Analogue Video to HDMI Up Conversion)</li> <li>• Stable power supply for high-quality sound and picture playback</li> <li>• Compressed Audio Restorer to enhance digital music files (WMA / MP3 )</li> <li>• Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance</li> <li>• Minimum Signal Path for clear audio and video signal</li> <li>• Audyssey Dynamic Volume, for real-time volume adjustment</li> <li>• Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment</li> <li>• HDMI CEC</li> <li>• Dolby TrueHD and DTS-HD Master Audio decoders</li> <li>• Dolby Pro Logic IIz processing</li> <li>• Audio Delay</li> <li>• Cinema EQ</li> <li>• Personal Memory Plus</li> <li>• Three quick select buttons</li> <li>• Sleep timer function</li> <li>• Tuner with RadioText and RDS</li> <li>• Auto surround mode</li> <li>• Multi channel stereo mode</li> <li>• All channel binding post speaker terminal</li> </ul> |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>Surround format</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                                                                        |                                                                                        |                                                                                        |
| THX SURROUND EX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
| DOLBY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II/ IIx<br>Pro Logic IIz  | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II/ IIx<br>Pro Logic IIz  | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II/ IIx<br>Pro Logic IIz  |
| DTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6 | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6 | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6 |
| Audyssey DSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                                                                        |                                                                                        |                                                                                        |
| DTS 96/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| HDCD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>Processor &amp; converter</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                                                                        |                                                                                        |                                                                                        |
| 32-bit floating point DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | x1                                                                                     | x1                                                                                     | x1                                                                                     |
| 192kHz/24bit D/A Converter for all ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| <b>Circuit &amp; construction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>DDSC-Digital</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                        |                                                                                        |                                                                                        |
| AL24 Processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
| DENON LINK 4th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                                                                        |                                                                                        |                                                                                        |
| Clock Jitter Reducer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                        |                                                                                        |                                                                                        |
| Pure direct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | •                                                                                      | •                                                                                      |                                                                                        |
| Variable gain volume control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>Amplifier</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                                                                        |                                                                                        |                                                                                        |
| Amplifier channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | 7                                                                                      | 7                                                                                      | 5                                                                                      |
| 8ohm rated power output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | 105W                                                                                   | 90W                                                                                    | 75W                                                                                    |
| 6ohm rated power output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | 135W                                                                                   | 125W                                                                                   | 110W                                                                                   |
| Full discrete all ch equal power amplifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| Wide range frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| Power amplifier assign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | for zone 2                                                                             | for zone 2                                                                             |                                                                                        |
| Surround Back ch amplifier assign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | Front SP Bi-amp/Height<br>Multizone                                                    | Front SP Bi-amp/Height<br>Multizone                                                    |                                                                                        |
| <b>Set up &amp; operation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |                                                                                        |                                                                                        |                                                                                        |
| Auto setup with microphone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| Room EQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| User interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | GUI                                                                                    | OSD                                                                                    | OSD                                                                                    |
| Remote                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | Flip remote                                                                            | Flip remote                                                                            | Simple remote                                                                          |
| Remote for Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>Others</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |                                                                                        |                                                                                        |                                                                                        |
| Multi Zone/ Multi Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 | 2/2                                                                                    | 2/2                                                                                    |                                                                                        |
| Variable subwoofer crossover switching                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | 40/60/80/90/100/<br>110/120/150/200/250Hz                                              | 40/60/80/90/100/<br>110/120/150/200/250Hz                                              | 40/60/80/90/100/<br>110/120/150/200/250Hz                                              |
| Video up/down conversion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 | Composite <-> S-video<br><-> Component -> HDMI                                         | Composite/S-video<br>/Component -> HDMI                                                | Composite/S-video<br>/Component -> HDMI                                                |
| Video scaler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 | up to 1080p/1080p24                                                                    | up to 1080p                                                                            |                                                                                        |
| Component video band width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | 60MHz                                                                                  | 60MHz                                                                                  | 60MHz                                                                                  |
| Network music / photo streaming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
| iPod/USB Direct Play                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                        |                                                                                        |                                                                                        |
| Surround SP A/B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
| Front SP A/B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 | •                                                                                      | •                                                                                      | •                                                                                      |
| <b>Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>IN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HDMI                            | x 5                                                                                    | x 4                                                                                    | x 3                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Component                       | x 2                                                                                    | x 2                                                                                    | x 2                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S-Video                         | x 3                                                                                    | x 1 (iPod dock only)                                                                   | x 1 (iPod dock only)                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Composite (Video)               | x 4                                                                                    | x 4                                                                                    | x 4                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Analogue audio (Tuner included) | x 8                                                                                    | x 7                                                                                    | x 6                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Analogue EXT. In                | 7.1 ch                                                                                 | 7.1 ch                                                                                 |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Digital Optical                 | x 3                                                                                    | x 2                                                                                    | x 2                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Digital Coaxial                 | x 2                                                                                    | x 2                                                                                    | x 1                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Denon Link 3rd                  |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
| <b>OUT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | HDMI monitor                    | x 1 (Repeater and scaler)                                                              | x 1 (Repeater and scaler)                                                              | x 1 (Repeater)                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Component                       | Monitor x 1                                                                            | Monitor x 1                                                                            | Monitor x 1                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S-Video                         | Monitor x 1<br>VCR x 1                                                                 |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Composite                       | Monitor x 1<br>DVR x 1                                                                 | Monitor x 1<br>DVR x 1                                                                 | Monitor x 1<br>DVR x 1                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Analogue audio                  | REC x 2<br>Zone2 x 1                                                                   | REC x 2<br>Zone2 x 1                                                                   | REC x 2                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Analogue preout                 | x 1 (7.1ch)                                                                            | x 1 (SW)                                                                               | x2 (Front Height L/R, SW)                                                              |
| <b>Others</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Digital optical                 | x 1                                                                                    |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Phones                          | x 1                                                                                    | x 1                                                                                    | x 1                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Trigger +12 V, 250 mA           | x 1                                                                                    |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RS-232C                         | x 1                                                                                    |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Tuner antenna AM/FM             | 1/1                                                                                    | 1/1                                                                                    | 1/1                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remote In/Out                   | 1/1                                                                                    | 1/1                                                                                    |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ethernet                        |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wi-Fi (WLAN Antenna)            |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | USB                             |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Dock control                    | x 1                                                                                    | x 1                                                                                    | x 1                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Setup mic                       | x 1                                                                                    | x 1                                                                                    | x 1                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                                        |                                                                                        |                                                                                        |





## There's more tasty sound out there.

When you're thirsty, there's nothing better than a glass of water.

We are already satisfied, but we continue to look for tastier water around the world.

It's the same with music. No matter how good the quality is already, there's still better to be found.

More of the real thing. More excitement.

The ambiance of a classical music concert, the hot passion of a live house, the atmosphere inspiring Latin music, and so on . . .

Denon has continued to respond tirelessly to this pursuit.

It's because of constant refinements from music audiophiles that

Denon Hi-Fi has evolved into the remarkable product line-up it is today.



## Hi-Fi audio technology

– The fruit of many years of Denon audio technology and experience.

### *Ultra High Current MOS* SINGLE PUSH-PULL CIRCUIT

- **UHC (Ultra High Current) Single Push-Pull Circuit**

For the past ten years, the dream of power amps has been to support low-impedance speakers. Unfortunately, however, the fulfilment of this dream has always been a difficult proposition, and Denon eventually felt the need to rethink its approach. The result has been to combine high output power with detailed musical expression, a high-grade solution that is the first of its kind. The challenge facing Denon has been to amplify with dynamic strength and absolute clarity the creative energy transmitted by the artist and to keep apace with the ever changing musical signal levels. A hefty power supply unit with ample reserves and a power amp that is capable of supplying pure, dynamic signals to the speakers so that the music is heard with absolute transparency are the primary requirements. Also required are transient response characteristics that amplify even low-level signals with impeccable precision. No matter how superior the dynamic range or the frequency characteristics may be, these features are meaningless if the amp cannot instantly follow the sudden rises and falls in sound.

- **Minimum Signal Path**

The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback. Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

- **Leakage Cancelling (LC) mounted twin transformers, for wide dynamic range and low noise**

By employing a large magnetic circuit with low magnetic flux density, the power transformer achieves superior response characteristics capable of accommodating musical signals with a broad dynamic range even in areas of magnetic saturation. The LC mount, which serves to eliminate mutual interference caused by magnetic fields and other factors, significantly reduces leakage flux which is a source of noise inside the amp. The result is a powerful speaker drive that ensures both remarkably transparent speaker output and low noise.

- **European sound tuned**

Denon's Hi-Fi products were jointly developed by skilled European sound engineers and Denon. The high standard of craftsmanship emerged as a result of assiduous analysis, tests, and adjustments that were repeated over and over again with the latest technologies and materials to achieve optimum clarity and depth in sound.

- **Thoroughly vibration-resistant design with Direct Mechanical Ground Construction**

The power transformers, itself a source of vibration, has been placed near the ground and immediately above the insulators to allow direct release to the ground and thoroughly prevent the propagation of unwanted vibration or noise.

- **Pure Direct Mode**

During playback in Pure Direct mode, the display panel is turned off and the master clock signal is supplied from a crystal oscillator. This highly accurate oscillator gives greater purity to the sound.

- **D.D.L. (Denon Double Layer) cone**

The newly-developed D.D.L. (Denon Double Layer) cone has been used for the woofer diaphragm. This dual-layer diaphragm whose structure is the result of meticulous simulations is both highly rigid and light-weight and achieves a precision piston motion across the entire sonic spectrum. The ingenious structural design ensures that sympathetic vibration from the edge do not adversely affect the audio characteristics but deliver the best possible quality in sound. Improvements in top-bottom symmetry in magnetic flux distribution and other areas, together with the magnetic circuit of advanced design, bring out a deeply impressive strength of expression.



# PMA-2010AE

Integrated amplifier

# DCD-2010AE

CD/Super Audio CD player



## Ultra High Current MOS

SINGLE PUSH-PULL CIRCUIT

### PMA-2010AE

- Ultra High Current (UHC)-MOS Single-Push-Pull Circuit Power Amplifier
- Powerful high-current dynamic power circuit
- Direct Mechanical Ground Construction to minimize unwanted vibration
- Chassis construction with 6 independent blocks to eliminate noises
- Leakage-cancelling-mounted twin transformers
- Minimum Signal Paths
- 2 x 160 W (4 ohm) output
- Wider dynamic range playback, supporting a high-grade audio sources
- Main transformer with separate power supplies for analogue and digital circuits
- High-grade volume control for precise quality management
- Source Direct switch to bypass tone control, balance control, and loudness for simple & straight signal paths
- Microprocessor stop mode, for higher sound quality
- High performance MM & MC Phono Equalizer Amp
- Less than 0.3 W at stand-by
- System remote control unit to control not only the amplifier but also a CD player (PMA-2010AE's remote control unit is the same as DCD-2010AE's one. RC-1138)
- Power Amp Direct Input and Pre Out for system expansion



ADVANCED *AL32* PROCESSING



### DCD-2010AE

- Advanced AL32 Processing + High Precision 192kHz/32bit D/A Converter
- DAC Master Clock Circuit Design to suppress jitter and noise
- Compressed Audio Restorer
- Digital Direct Play Function for iPod (via USB)
- Direct Mechanical Ground Construction to minimize unwanted vibration
- Minimum Signal paths
- Original drive mechanism, the heart of Denon's digital Disc playback technology, with an aluminum tray
- Engineering concept of complete separation of digital and analogue
- CD-R/RW Playback (MP3, WMA)
- USB (MP3, WMA) Playback
- SPDIF input (optical/coaxial) for upgrading other equipment
- Pure Direct Mode
- Super Audio CD multi-channel playback (Down mix stereo)
- Carefully designed construction to preserve audio signal purity
- Selected Hi-Fi parts
- iPod recharge
- System remote control unit (DCD-2010AE's remote control unit is the same as PMA-2010AE's one. RC-1138)

# PMA-1500AE

Integrated amplifier

# DCD-1500AE

CD/Super Audio CD player



*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT



*AL24 Processing*

## PMA-1500AE

- 140 W x 2 (4 ohms)
- UHC-MOS FET
- UHC-MOS single push-pull circuit
- LC (Leakage Cancelling) mounted twin transformers
- High-speed rectifier circuit
- Highly rigid, separated chassis
- Wide-range play capability for DVD-Audio or Super Audio CD
- Power amp direct input
- Large, gold-plated speaker terminals
- High-performance MM & MC phono equaliser
- Convenient remote control for main functions
- PRE OUT terminals for future system expansion

## DCD-1500AE

- AL24 Processing: Ideal analogue waveform reproduction technology
- Original drive mechanism, the heart of Denon's digital disc playback technology
- DAC master clock design, to suppress jitter and noise
- Complete separation of digital and analogue power supplies
- Pure direct mode
- Optical and coaxial digital output

| Integrated amplifiers             | PMA-2010AE | PMA-1500AE | PMA-710AE | PMA-510AE |
|-----------------------------------|------------|------------|-----------|-----------|
| UHC-MOS single push pull circuit  | •          | •          |           |           |
| HC-TR single push pull circuit    |            |            | •         | •         |
| LC mounted twin transformer       | •          | •          |           |           |
| Wide range amplifier              | •          | •          | •         | •         |
| High current dynamic power supply | •          | •          | •         | •         |
| Power amp discrete construction   | •          | •          | •         | •         |
| Phono MC                          | •          | •          |           |           |
| MM                                | •          | •          | •         | •         |
| Audio input                       | 7          | 6          | 6         | 6         |
| Rec output                        | 2          | 2          | 2         | 2         |
| Pre Out                           | •          | •          | •         |           |
| REC out select                    | •          | •          | •         |           |
| Source direct                     | •          | •          | •         | •         |
| Tone control                      | •          | •          | •         | •         |
| Power amp direct mode             | •          | •          |           |           |
| Micro processor auto off          | •          | •          | •         | •         |
| 4ohm rated output                 | 160 W      | 140 W      | 85W       | 70 W      |

| Super Audio CD/CD players | DCD-2010AE          | DCD-1500AE          | DCD-710AE   | DCD-510AE   | DCD-CX3             | DCM-500AE |
|---------------------------|---------------------|---------------------|-------------|-------------|---------------------|-----------|
| Advanced AL 32 Processing | •                   |                     |             |             |                     |           |
| AL 24 Processing          |                     | •                   | •           |             | •                   |           |
| Number of DAC             | 2                   | 2                   | 2           | 2           | 2                   | 2         |
| SVH loader                | • (Advanced)        | •                   |             |             |                     |           |
| Dimmer                    | •                   | •                   | •           | •           | •                   |           |
| Pitch control             |                     |                     | •           |             |                     |           |
| Analogue output           | 1                   | 1                   | 1           | 1           | 1                   | 1         |
| Digital output            | 2 (Coaxial/Optical) | 2 (Coaxial/Optical) | 1 (Optical) | 1 (Optical) | 2 (Coaxial/Optical) | 1         |
| Digital input             | 2 (Coaxial/Optical) |                     |             |             |                     |           |
| Number of discs           | 1                   | 1                   | 1           | 1           | 1                   | 5         |
| Super Audio CD            | •                   | •                   |             |             | •                   |           |
| CD-RW playback (*)        | •                   | •                   | •           | •           | •                   | •         |
| MP3 / WMA decoder         | •                   |                     | •           |             | •                   | •         |
| Random                    | •                   | •                   | •           | •           | •                   | •         |
| Repeat all                | •                   | •                   | •           | •           | •                   | •         |
| Repeat one                | •                   | •                   | •           | •           | •                   | •         |
| A/B repeat                |                     | •                   | •           | •           |                     | •         |

## PMA-710AE

Integrated amplifier

## DCD-710AE

CD player



*High Current*  
SINGLE PUSH-PULL CIRCUIT

**SLDC**  
SIGNAL LEVEL DIVIDED CONSTRUCTION

### PMA-710AE

- High Current (HC) Single-Push-Pull Circuit to balance musical detail and power
- Wide dynamic range playback, supporting a high-grade audio sources
- Main transformer with separate power supplies for audio and control circuits
- Microprocessor stop mode, for higher sound quality
- Thoroughly vibration-resistant design with Direct Mechanical Ground Construction
- European sound-tuned
- Newly-designed system remote unit
- Phono Equalizer Amp (MM), for connecting an analogue record player
- PRE OUT jack, for future upgrades
- REC OUT Selector
- Headphone jack
- Less than 0.3 W at stand-by
- Aluminium panel design, befitting the elegance of an audio component

*AL24 Processing*



MP3 WMA

### DCD-710AE

- USB port for playback from an iPod or USB memory
- MP3/WMA playback (USB, CD-R/RW)
- AL24 Processing, to dramatically enhance the music listening experience
- High precision 24-bit 192 kHz D/A converter
- Pure Direct
- Thoroughly vibration-resistant design with Direct Mechanical Ground Construction
- Original Denon Mechanism with central assembly drawer unit
- Carefully designed construction to preserve audio signal purity
- Minimum signal path design
- Strictly selected parts for high sound quality
- Pitch Control
- European sound-tuned
- Folder Mode function, for playing only files stored in specific folders
- Aluminium panel design, befitting the elegance of an audio component

## PMA-510AE

Integrated amplifier

## DCD-510AE

CD player



*High Current*  
SINGLE PUSH-PULL CIRCUIT

**SLDC**  
SIGNAL LEVEL DIVIDED CONSTRUCTION

### PMA-510AE

- High Current (HC) Single-Push-Pull Circuit to balance musical detail and power
- Wide dynamic range playback, supporting a high-grade audio sources
- Main transformer with separate power supplies for analogue and digital circuits
- Microprocessor stop mode, for higher sound quality
- Thoroughly vibration-resistant design with Direct Mechanical Ground Construction
- European sound-tuned
- Newly-designed system remote unit
- Phono Equalizer Amp (MM), for connecting an analogue record player
- Headphone jack
- Less than 0.3 W at stand-by
- Aluminium panel design, befitting the elegance of an audio component



MP3 WMA

### DCD-510AE

- CD-R/CD-RW playback (MP3, WMA)
- 2 line fluorescent display
- High precision 24-bit 192 kHz D/A converter
- Thoroughly vibration-resistant design with Direct Mechanical Ground Construction
- Original Denon Mechanism with central assembly drawer unit
- Carefully designed construction to preserve audio signal purity
- Minimum signal path design
- Strictly selected parts for high sound quality
- European sound-tuned
- Remote control unit equipped with buttons of different shapes and sizes based on their functions for easy operation
- Folder Mode function, for playing only files stored in specific folders
- Aluminium panel design, befitting the elegance of an audio component



## DRA-700AE DRA-700AEDAB\*

AM-FM stereo receiver / DAB/AM-FM stereo receiver

**SLDC** **Multi Zone** **DAB** **RDS** **RadioTEXT**  
SERIAL LEVEL DIVIDED CONSTRUCTION Home Entertainment Component Digital Audio Broadcasting

- 105 W x 2 (4 ohms)
- Signal Level Divided Construction (SLDC)
- Wide-range play capability for DVD-Audio or Super Audio CD
- DAB tuner (DRA-700AEDAB)
- Electronic source selection
- Video in/out terminal
- Multizone
- A-B speaker switching
- RDS (RDS-EON) functions
- 56-station random preset memory  
(Another 56 stations for DAB station (DRA-700AEDAB))

\*DRA-700AEDAB is not necessarily sold in all regions.

Please contact a nearby Denon authorised dealer for details and availability.



## TU-1800DAB

DAB / AM-FM stereo tuner

**DAB** **RDS** **RadioTEXT**  
Digital Audio Broadcasting

- Sophisticated tuning circuit design
- Low-impedance output circuit
- RDS (RDS-EON) functions
- Large, easy-to-read display
- Rotary knob for improved ease of operation

This product is not necessarily sold in all regions.

Please contact a nearby Denon authorised dealer for details and availability.



## DCM-500AE

5-CD auto changer

**COMPACT** **MP3** **WMA**  
DIGITAL AUDIO

- CD-R/RW playback
- MP3 and WMA decoders
- Advanced multi level noise shaping DAC
- 8-times oversampling digital filter
- Remote control in/out
- Full selection of program playback
- 3-mode random playback



## DRA-500AE

AM-FM stereo receiver

**SLDC** **RDS** **RadioTEXT**  
SERIAL LEVEL DIVIDED CONSTRUCTION

- 95 W x 2 (4 ohms)
- Signal Level Divided Construction (SLDC)
- Wide-range play capability for DVD-Audio or Super Audio CD
- A-B speaker switching
- RDS (RDS-EON) functions
- 56-station AM / FM random preset memory

This model is not necessarily sold in all regions.

Please contact a nearby Denon authorised dealer for details and availability.



## TU-1500AE

AM-FM stereo tuner

**RDS** **RadioTEXT**

- Newly-developed MPX filter
- Low-impedance output circuit
- RDS (RDS-EON) functions
- Rotary knob for improved ease of operation
- Large, easy-to-read display
- AM/FM 100-station random preset memory

| Receivers                     | DRA-700AE                 | DRA-700AEDAB              | DRA-500AE  | DRA-CX3 (page47) |
|-------------------------------|---------------------------|---------------------------|------------|------------------|
| SLDC                          | •                         | •                         | •          |                  |
| Speaker                       | A/B                       | A/B                       | A/B        | A                |
| Analogue inputs               | 5 + Phono (MM)            | 5 + Phono (MM)            | 5          | 5                |
| Analogue outputs              | 2 + pre out for Zone2 & 3 | 2 + pre out for Zone2 & 3 | 2          | 1                |
| Loudness                      | •                         | •                         | •          |                  |
| Binding post speaker terminal | •                         | •                         | •          | •                |
| RDS with RadioText            | •                         | •                         | •          | •                |
| Dot matrix display            | • (2-line)                | • (2-line)                | • (1-line) | • (1-line)       |
| Video in/out                  | 3 / 2 +2 for Zone2 & 3    | 3 / 2 +2 for Zone2 & 3    |            |                  |
| DAB tuner                     | •                         | •                         |            |                  |
| Station memory (FM&AM / DAB)  | 56 / -                    | 56 / 56                   | 56 / -     | 40 / -           |
| Auto preset memory            | •                         | •                         | •          | •                |
| Character input               | •                         | •                         | •          | •                |

| Tuners                       | TU-1800DAB | TU-1500AE |
|------------------------------|------------|-----------|
| RDS                          | •          | •         |
| Radio Text                   | •          | •         |
| EON                          | •          | •         |
| DAB tuner                    | •          |           |
| Station memory (FM&AM / DAB) | 100 / 100  | 100 / -   |
| Manual character input       | •          | •         |
| Auto preset memory           | •          | •         |



## DP-300F

### Turntable

- High-precision diecast aluminium turntable
- Refined external design with a gloss coating
- Fully automatic system for easy operation
- Straight tone arm to bring out the maximum performance of cartridges with superior tracing capabilities.
- Includes high-grade MM cartridge
- Built-in phono equaliser
- Manual arm lifter
- Replaceable cartridge (4.5-9.5g)
- Dedicated shell

This model is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.



## DP-200USB

### Turntable

- Import tracks from analogue records to USB memory without a PC.
- Includes PC software for editing tracks.
- High-precision diecast aluminum turntable
- Automated system for easy operation
- Built-in phono equalizer

This model is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.

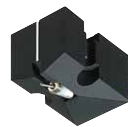


## DP-29F

### Turntable

- High-precision diecast aluminium turntable
- Automated system for easy operation
- Built-in phono equaliser

This model is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.



## DL-103

### MC cartridge



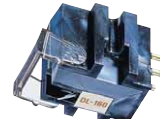
## DL-110

### High output MC cartridge



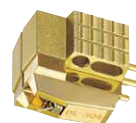
## DL-103R

### MC cartridge



## DL-160

### High output MC cartridge



## DL-304

### MC cartridge

Cartridges are not sold in all regions.  
For details, please contact the authorised dealer noted at the back of this catalogue.



Beautiful to hear and see,  
A tactile quality that's wonderful to behold.

Complete attention to detail not only for sound but also for design, materials, parts, and crossover network; the uncompromising skill and passion of a craftsman. Denon's CX3 delivers authenticity in sound required by the most discerning audiophiles.



## DRA-CX3

Stereo receiver



- Newly-developed amplifier circuitry, for improved power and clarity in music playback
- High output power of 150 W (4ohms) per channel
- Power unit capable of responding to sudden bursts of sound
- Highly precise electronic volume
- Separate power supplies and ground circuits for each stage
- Short Signal Path Circuitry, to suppress signal degradation
- Thoroughly vibration-resistant construction
- Parts strictly selected for high sound quality
- MM/MC phono equaliser
- Large speaker terminals made of gold-plated, machined brass, newly developed to also accommodate ultra-thick speaker cables
- Gold-plated, machined brass input terminals with 18mm pitch (for CD)
- Slim system remote controller designed for ease of use and tasteful appearance
- Built-in AM/FM tuner
- Versatile connection environment for enjoying music from records, an iPod, and various other sources

## DCD-CX3

Super Audio CD player



AL24 Processing

MP3



- Newly-developed mechanism to accurately read information from the disc
- AL24 Processing, to dramatically enhance the music listening experience
- Highly reliable DAC master clock design
- Separate digital and analogue transformers, for stable power supply and improved music playback performance
- Pure Direct mode, for the enjoyment of pure music
- High-accuracy D/A converter
- Vibration-resistant construction
- Plays MP3 and WMA files recorded on CD-R/RW discs
- Gold-plated, machined brass output terminals with 18mm pitch, enabling upgrades in sound quality using high-class audio RCA pin cables
- Optical digital outputs to accommodate connection of a digital recording device
- Slim system remote controller designed for ease of use and tasteful appearance

## RCD-CX1

Super Audio CD receiver



AL24 Processing

MP3



- Denon audio audiophile technology in a compact LP sized aluminum housing
- Plays Super Audio CDs, music CDs, and CD-R/RW MP3 and WMA audio tracks
- Powerful amplifier circuit, providing superior speed and rich musical expression
- Thoroughly vibration-resistant construction
- Short signal paths, to minimize signal degradation
- Advanced S.V.H. (Suppress Vibration Hybrid) Mechanism
- AL24 Processing, to dramatically enhance the music listening experience
- Simple and intuitive operation
- Enjoy various music media in high-quality sound
- Extensive Use of audiophile grade quality parts
- Built-in AM/FM tuner
- Versatile connection environment for enjoying music from records, an iPod and various other sources
- Optical digital outputs to accommodate connection of a digital recording device
- Slim system remote controller designed for ease of use and tasteful appearance

## SC-CX303

Speaker system



- Newly-developed 13cm D.D.L. cone woofer units utilising carbon fibre
- Soft dome tweeters, to realise a lustrous vocal sound
- Crossover network, for uniform sound pressure and phase response
- Unit frame made of non-magnetic diecast aluminium to keep sound clean
- Cabinets made of 30mm MDF board with natural wood sliced veneer and inlaid work
- Born from European sound design and Denon collaboration
- Rear duct to realise deep, transparent sound
- Large speaker terminals made of gold-plated, machined brass, a Denon original
- Parts strictly selected for high sound quality
- Includes anti-slip pads

## SC-CX101

Speaker system



- 12cm woofer unit with newly-developed glass fibre D.D.L. cone
- 2.5cm dome tweeter with specialized frame shape
- Unit frame made of non-magnetic die-cast aluminum
- Crossover network, for uniform sound pressure and phase response
- A pleasing harmony between technology and aesthetics
- Beautiful natural wood-grain veneer cabinet





## Small body, big presence.

Those moments while you wake up in the morning, or relax at sundown.

In the din of the kitchen, the noise of the street, the aroma of coffee, and so on.

Mini Hi-Fi components are always at your side, harmonising your surroundings and music in a pleasing way.

You might quietly notice some familiar background music somewhere,  
just as if you were in conversation with a close friend.

The mini Hi-Fi component is that sort of presence. It's so Denon.

A series that lets you taste music being made by a master.

**D-F107/ D-F107DAB\***

DRA-F107/DRA-F107DAB (Premium silver)  
 DCD-F107 (Premium silver)  
 SC-F107 (Black)

\*D-F107DAB is not necessarily sold in all regions. Please contact a nearby Denon authorised dealer for details and availability.

## Ultimate Hi-Fi mini component system.

D-F Series high-sound-quality hi-fi component system in 250 mm x 250 mm compact size, offering improved sound quality, ease of use, and connectivity with portable players.



**D-F107/F107DAB**

DRA-F107/DRA-F107DAB (Black)  
 DCD-F107 (Black)  
 SC-F107 (Black)

**D-F107/F107DAB**

DRA-F107/DRA-F107DAB (Premium silver)  
 DCD-F107 (Premium silver)  
 SC-F107 (Cherry)



\* This colour combination is not available in the UK.

**DRA-F107/ DRA-F107DAB**

Receiver



- 65W x 2 (4 ohms)
- Dynamic and clear sound
  - Newly developed power amplifier stage
  - Separated block construction
  - 'Simple & Straight' circuit design
- DAB/DAB+ tuner
- Portable player connectivity
  - Dock control port, for networked connectivity
  - Front line-in for portable player
- Phono MM input with equalizer
- 2-line front display, to easily identify broadcast stations
- Easy timer setting
- Newly developed remote controller

**SC-F107**

Speaker system

- Newly-developed speakers... inheriting Denon's CX concepts and technology
  - 14 cm D.D.L. cone woofer units with inside ventilation holes
  - 2.5 cm high definition tweeter
  - Crossover network, to separate woofer and tweeter to reproduce the smoothness of natural sound
- Anti-vibration Crossbar arranged for optimum acoustics inside the cabinet
- Born from European sound design and Denon collaboration

**DCD-F107**

CD player



- Clean and pure sound
  - Minimum signal path
  - Minimum CD pick up signal path
  - High precision 24-bit 192 kHz D/A converter and strictly selected parts
- Portable player connectivity
  - iPod Direct connectivity via USB port (MP3/WMA)
  - USB (Mass Storage Class) connectivity
- CD-R/CD-RW playback (MP3, WMA)
- 2-line front display, to easily identify music tracks





Premium Denon sound  
from a high-quality mini component system.

**D-M37 / D-M37DAB**

RCD-M37 (Premium silver)  
SC-M37 (Black)

D-M37DAB is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.

**D-M37 / D-M37DAB**

RCD-M37 (Black)  
SC-M37 (Black)

**D-M37 / D-M37DAB**

RCD-M37 (Premium silver)  
SC-M37 (Cherry)



\* This colour combination is not available in the UK.

**RCD-M37 / RCD-M37DAB**

CD receiver

- 30 W x 2 (6 ohms)
- "Simple & Straight" circuit design
- Triadic noise reduction concept
  - Short signal path, to optimise performance in sound quality
  - Thorough separation of digital and analogue sections
  - Precision signal ground circuit, to preserve signal purity
- Robust power circuit providing stable supply of electric current
- UK Sound Tune (RCD-M37DAB)
- Versatile connection environment for enjoying music from an iPod, USB player and various other sources
- MP3 and WMA playback (CD/USB)
- DAB (Band-III)/AM/ FM tuner (RCD-M37DAB)
- AM/FM Tuner



- Radio TEXT with RDS function
- S.D.B. (Super Dynamic Bass)
- Tone Controls (Bass, Treble)
- Source Direct Function
- 2 Sets of Analogue Stereo Inputs and Analogue Stereo Outputs
- MONO Output for Subwoofer
- Headphone Jack
- Everyday/Once/Sleep Timer
- Two-digit front display, to easily identify music tracks or broadcast stations
- Large speaker terminals, to accommodate ultra-thick cables that preserve high sound quality
- Easy-to-Use Remote Control

**SC-M37**

Speaker system

- Newly-developed speakers ... inheriting Denon's CX concepts and technology
  - New D.D.L. cone woofer with inside ventilation holes
  - High definition tweeter with ventilation hole
  - Newly developed Crossover network

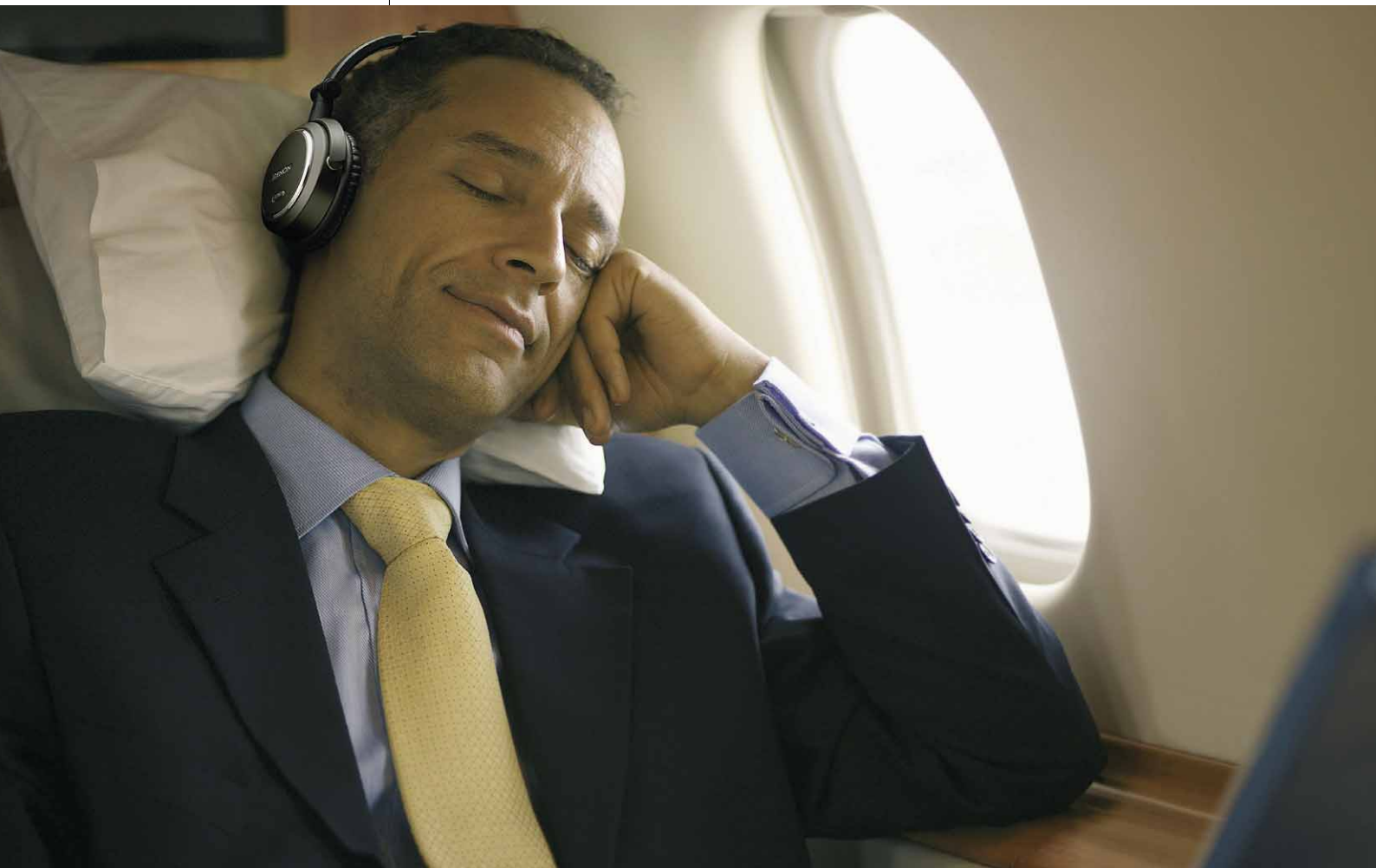
- 2-way speakers
- 12 cm woofer unit with D.D.L. (Denon Double Layer) cone
- 2.5 cm Soft dome Tweeter





## Wearing Denon, Listening to Acoustic Luxury.

This is the pride of people who know acoustic luxury.  
100 years of technology and passion for Hi-Fi audio.  
It's only natural that Denon devotes its talents to headphones, too.  
This devotion is embodied in a gentle design that refreshes the heart.  
The best in wearing comfort.  
And as the wearer, you are the only one who can hear the sound.  
Enjoy acoustic luxury anytime, wherever you are.  
From home to wherever you are when you're out, Denon has a design to suit the occasion.



## Escape to quality sound.

Denon's noise cancelling headphones

- **Noise cancelling**

You want to listen to music and relax without being disturbed by the sound of the plane's engines. Your first instinct is usually to turn up the volume.

But, the high-performance Noise Canceling feature reduces airplane noise for you. The headphones are also lightweight, allowing you to wear them comfortably for hours.

- **Compressed Audio Restorer improves the fidelity** from your portable audio player (AH-NC600)

Compressed Audio Restorer restores high frequency harmonic components lost in an audio compressing process.

- **Radial Cascade Damper reduces cable transmitted vibration noise** (AH-NC600/C710/C360)

- **Acoustic optimiser**

Acoustic Optimiser achieves optimum acoustic characteristics by adjusting the sound pressure balance in front of and behind the diaphragm. It minimizes muffling in the low frequency range, reduces modulation effects in mid to high frequency range, and achieves a smooth response.



Convenient carrying case for use in flight (AH-NC600)



## AH-NC732

### Noise cancelling headphones

- Active noise-cancelling function that reduces external noise such by about 99%
- Lower power consumption permitting continuous use of 40 hours (AAA battery x 1pc)
- You can enjoy sound even when Noise Cancelling is turned off
- Acoustic Optimiser
- Large (ø40 mm), powerful driver unit
- Compact folding construction for easy storage, and light weight of just 146 grams
- Ear cushions combining low-repulsion urethane and high-grade protein leather
- Detachable cables (0.7 m, 1.5 m)
- Aluminium Connector Cover
- Compact carrying case



## AH-NC600

### Noise cancelling headphones

- Active noise-cancelling function that reduces external noise such by about 99% (\*1)
  - Compressed Audio Restorer improves the fidelity from your portable audio player
  - Radial Cascade Damper reduces cable transmitted vibration noise
  - Acoustic Optimiser
  - Ergonomic design for best quality fit and increased comfort
  - Hybrid material driver housing for highest fidelity sound reproduction
  - 13.5 mm driver for clear, dynamic sound
  - Canal-type in-ear headphone reduces external noise
  - Lower power consumption permitting continuous use of 60 hours (Uses one AAA battery, easily available on the go)
  - You can enjoy sound even when Noise Cancelling is turned off
  - 1.1 m OFC cable with straight plug
  - Gold-plated stereo mini-jack
  - Extension cable: 0.8 m with L-type plug
  - Comes with silicon ear pads in 3 sizes (S/M/L) for best quality sound
  - Soft Foam Ear Pad for custom-fit
  - Convenient semi-hard shell carrying case
  - A carrying case usable as the stands of the portable audio video player
  - A plug shape that can be used with the Apple iPhone
- (\*1) May differ according to a fitting condition



| Noise cancelling headphones | AH-NC732                         | AH-NC600                 |
|-----------------------------|----------------------------------|--------------------------|
| Type                        | On-Ear Stereo Headphones         | In-Ear Stereo Headphones |
| Driver unit                 | ø40 mm                           | ø13.5 mm                 |
| Noise cancelling            | •                                | •                        |
| Compressed Audio Restorer   | •                                | •                        |
| Acoustic Optimiser          | •                                | •                        |
| Battery life                | 40 H                             | 60 H                     |
| Cable                       | 0.7 m / 1.5 m with straight plug | 1.1 m with straight plug |
| Extension cable             |                                  | 0.8 m                    |
| Weight                      | 146 g                            | 26 g                     |

# Over-ear / On-ear headphones



## AH-D7000

Over-ear headphones

- Stronger magnetic circuit for the driver unit
- Piano finished Real Wood Mahogany Housing
- Microfiber diaphragm, to reproduce delicate nuances of sound
- Acoustic Optimiser
- Cloth-wrapped cable with high-purity (99.99999% OFC) 7N-OFC wire and equal length for left and right channels, to optimise sound quality
- Cable with tangle-free and twisting-resistant Elastomer sheath
- ø6.3 mm aluminium plug matching Denon's high-end models
- Gold plated connector
- Magnesium frame and duralumin slider construction to achieve light weight and natural feel while wearing
- Leather ear pads /head pad
- Luxurious storage box included



## AH-D5000

Over-ear headphones

- Real Wood Mahogany Housing
- Micro-fibre diaphragm
- Acoustic optimiser
- High purity 99.99999% OFC (7N-OFC) cabling
- Aluminium Connector Cover
- Gold plated connector
- L/R equal cable connection
- Light-weight magnesium frame
- Cloth mesh cable jacket



## AH-D2000

Over-ear headphones

- Superior headphone housing for high sound quality
- Micro-fibre diaphragm
- Acoustic optimiser
- High quality OFC cabling
- L/R equal cable connection
- Aluminium Connector Cover
- Gold plated connector
- Light-weight magnesium frame
- Cloth mesh cable jacket



## AH-D1001

### On-ear headphones

- Metallic finished mold housing
- Micro-fibre diaphragm
- Acoustic optimiser
- High quality OFC cabling
- L/R equal cable connection
- Aluminium Connector Cover
- Gold plated connector
- Extension cable (1.7 m)
- Pouch included



## AH-D501

### On-ear headphones

- Acoustic optimiser
- Double headband for easy fitting and wearing
- Large (ø35 mm), powerful driver unit
- Aluminium connector cover
- Left and right cable length is equal for sound quality
- Earpad in an elaborately sewn synthetic leather with a pleasant touch
- Housing reversal mechanism allowing one-eared monitoring



## AH-D301

### On-Ear Headphones

- Acoustic optimiser
- Double headband for easy fitting and wearing
- Large (ø35 mm), powerful driver unit
- Left and right cable length is equal for sound quality
- Housing reversal mechanism allowing one-eared monitoring



## AH-P372

### Portable Headphones

- Acoustic Optimiser
- Foldable for easy stowing
- Left and right cable length is equal for sound quality
- 0.5 m cable and 0.8 m extension cable supplied
- Pouch included



| Over-ear headphones          | AH-D7000                                | AH-D5000                                     | AH-D2000                                  |
|------------------------------|-----------------------------------------|----------------------------------------------|-------------------------------------------|
| Driver unit                  | ø50 mm                                  | ø50 mm                                       | ø50 mm                                    |
| Wooden housing               | •                                       | •                                            | •                                         |
| Acoustic Optimiser           | •                                       | •                                            | •                                         |
| Microfiber diaphragm         | •                                       | •                                            | •                                         |
| L/R equal cable connection   | •                                       | •                                            | •                                         |
| Light-weight magnesium frame | •                                       | •                                            | •                                         |
| Cable                        | 3.0 m 7N-OFC with stereo plug (ø6.3 mm) | 3.0 m 7N-OFC with stereo mini plug (ø3.5 mm) | 3.0 m OFC with stereo mini plug (ø3.5 mm) |
| Extension cable              | •                                       | •                                            | •                                         |
| Aluminum plug                | •                                       | •                                            | •                                         |
| Gold-plated stereo plug      | •                                       | •                                            | •                                         |
| Weight                       | 370 g                                   | 370 g                                        | 350 g                                     |

| On-ear headphones            | AH-D1001                                  | AH-D501                                   | AH-D301                                   | AH-P372                                   |
|------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Driver unit                  | ø40 mm                                    | ø35 mm                                    | ø35 mm                                    | ø38 mm                                    |
| Wooden housing               | •                                         | •                                         | •                                         | •                                         |
| Acoustic Optimiser           | •                                         | •                                         | •                                         | •                                         |
| Microfiber diaphragm         | •                                         | •                                         | •                                         | •                                         |
| L/R equal cable connection   | •                                         | •                                         | •                                         | •                                         |
| Light-weight magnesium frame | •                                         | •                                         | •                                         | •                                         |
| Cable                        | 1.5 m OFC with stereo mini plug (ø3.5 mm) | 1.3 m OFC with stereo mini plug (ø3.5 mm) | 1.3 m OFC with stereo mini plug (ø3.5 mm) | 0.5 m OFC with stereo mini plug (ø3.5 mm) |
| Extension cable              | 1.7 m                                     | 1.7 m                                     | 1.7 m                                     | 0.8 m                                     |
| Aluminum plug                | •                                         | •                                         | •                                         | •                                         |
| Gold-plated stereo plug      | •                                         | •                                         | •                                         | •                                         |
| Weight                       | 180 g                                     | 180 g                                     | 180 g                                     | 140 g                                     |

# In-ear headphones



## AH-C751

In-ear headphones



- Highly rigid machined aluminum housing
- Acoustic optimiser
- High quality OFC cabling
- L/R equal cable connection
- Aluminium Connector Cover
- Gold plated connector
- 3 sizes of ear pads included
- Extension cable and hard shell carrying case



## AH-C710

In-ear headphones



- Radial Cascade Damper reduces cable transmitted vibration noise
- Acoustic Optimiser
- Ergonomic design for best quality fit and increased comfort
- Hybrid material driver housing (elastomer + carved solid aluminium) for highest fidelity sound reproduction
- Special carrying case with cable management
- 0.7 m OFC cable with straight aluminium plug
- Extension cable: 0.8 m with L-type plug
- The moldable soft foam ear-pieces
- 3 sizes of ear pads included
- Gold plated connector



| In-ear headphones              | AH-C751                  | AH-C710                  | AH-C551                  | AH-C452                  | AH-C360                  | AH-C252                  |
|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Driver unit                    | ø11 mm                   | ø11.5 mm                 | ø11 mm                   | ø11.5 mm                 | ø9 mm                    | ø11.5 mm                 |
| Acoustic Optimiser             | •                        | •                        | •                        | •                        | •                        | •                        |
| Radial Cascade Damper          |                          | •                        |                          | •                        | •                        | •                        |
| Ergonomic desing               |                          | •                        |                          | •                        | •                        | •                        |
| Hybrid material driver housing |                          | •                        |                          | •                        | •                        | •                        |
| Cable                          | 0.5 m with straight plug | 0.7 m with straight plug | 0.5 m with straight plug | 0.7 m with straight plug | 0.7 m with straight plug | 1.3 m with straight plug |
| Extension cable                | 0.8 m                    | 0.8 m                    | 0.8 m                    | 0.8 m                    | 0.8 m                    |                          |
| Gold-plated stereo plug        | •                        | •                        | •                        | •                        | •                        | •                        |
| Ear pieces                     | S/M/L                    | S/M/L plus soft foam     | S/M/L                    | S/M/L                    | XS/S/M/L                 | S/M/L                    |
| Weight                         | 6.6 g                    | 5.6 g                    | 5.4 g                    | 4.2 g                    | 3.1 g                    | 4.6 g                    |

## AH-C551

In-ear headphones



- Highly rigid machined aluminum housing
- Acoustic optimiser
- High quality OFC cabling
- L/R equal cable connection
- Gold plated connector
- 3 sizes of ear pads included
- Extension cable and hard pouch
- Extension cable and hard shell carrying case



## AH-C452

In-ear headphones



- Ergonomic desing for a comfortble fit in the ear
- 0.7 m High quality OFC cabling
- Acoustic optimiser
- L/R equal cable connection
- Gold plated connector
- 3 sizes of ear pads included
- Extension cable and carrying pouch



## AH-C360

In-ear headphones



- Radial Cascade Damper reduces cable transmitted vibration noise
- Acoustic Optimiser
- Ergonomic design for best quality fit and increased comfort
- Hybrid material driver housing for highest fidelity sound reproduction
- Convenient semi-hard shell carrying case
- 0.7 m OFC cable with straight plug
- Extension cable: 0.8 m with L-type plug
- Comes with silicon ear pads in 4 sizes (XS/S/M/L)
- Gold plated connector



## AH-C252

In-ear headphones



- Rubber-coated housing prevents slipping and provides a supple texture
- 1.3 m High quality OFC cabling
- Acoustic optimiser
- L/R equal cable connection
- Gold plated connector
- 3 sizes of ear pads included
- Carrying pouch



| A/V surround amplifiers and receivers                |                        |                                                      |                                                      |                                                      |
|------------------------------------------------------|------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
|                                                      | AVP-A1HDA              | AVC-A1HDA                                            | AVR-4810                                             | AVR-4310                                             |
| <b>Power amplifier section</b>                       |                        |                                                      |                                                      |                                                      |
| Type                                                 |                        | Same quality amplifier for all 7-channel             | Same quality amplifier for all 9-channel             | Same quality amplifier for all 7-channel             |
| Rated output *THD figures are power amp stage values |                        |                                                      |                                                      |                                                      |
| Front (L + R)                                        | -                      | 150 W + 150 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 140 W + 140 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 130 W + 130 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) |
| Centre (A)                                           | -                      | 150 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%)         | 140 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%)         | 130 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%)         |
| Surround (L + R) (A)                                 | -                      | 150 W + 150 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 140 W + 140 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 130 W + 130 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) |
| Surround Back (L + R)                                | -                      | 150 W + 150 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 140 W + 140 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 130 W + 130 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) |
| Front Height (L + R)                                 |                        |                                                      | 140 W + 140 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) |                                                      |
| <b>FM section</b>                                    |                        |                                                      |                                                      |                                                      |
| Tuning frequency range                               | -                      | -                                                    | 87.5 - 108.0 MHz                                     | 87.5 - 108.0 MHz                                     |
| Usable sensitivity                                   | -                      | -                                                    | 1.0 µV (11.2 dBf)                                    | 1.5 µV (14.8 dBf)                                    |
| <b>AM section</b>                                    |                        |                                                      |                                                      |                                                      |
| Tuning frequency range                               | -                      | -                                                    | 522 - 1611 kHz                                       | 522 - 1611 kHz                                       |
| Usable sensitivity                                   | -                      | -                                                    | 18 µV                                                | 20 µV                                                |
| Power supply                                         | AC 230 V, 50 Hz        | AC 230 V, 50 Hz                                      | AC 230 V, 50 Hz                                      | AC 230 V, 50 Hz                                      |
| Power consumption                                    | 150 W (Standby: 0.3 W) | 630 W (Standby: 0.3 W)                               | 910 W                                                | 780 W (Standby: 0.1 W)                               |
| Dimensions (W x H x D)                               | 434 x 217 x 500 mm     | 434 x 217 x 500 mm                                   | 434 x 195 x 424 mm                                   | 434 x 171 x 414 mm                                   |
| Weight                                               | 27,5 kg                | 29 kg                                                |                                                      | 15,8 kg                                              |

| A/V Surround Receivers                               |                                                      |                                                      |                                                    |                                                    |
|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
|                                                      | AVR-3310                                             | AVR-2310                                             | AVR-1910                                           | AVR-1610                                           |
| <b>Power amplifier section</b>                       |                                                      |                                                      |                                                    |                                                    |
| Type                                                 | Same quality amplifier for all 7-channel             | Same quality amplifier for all 7-channel             | Same quality amplifier for all 7-channel           | Same quality amplifier for all 7-channel           |
| Rated output *THD figures are power amp stage values |                                                      |                                                      |                                                    |                                                    |
| Front (L + R)                                        | 120 W + 120 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 105 W + 105 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) | 90 W + 90 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) | 75 W + 75 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) |
| Centre (A)                                           | 120 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%)         | 105 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%)         | 90 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%)        | 75 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%)        |
| Surround (L + R) (A)                                 | 120 W + 120 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 105 W + 105 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) | 90 W + 90 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) | 75 W + 75 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) |
| Surround Back (L + R)                                | 120 W + 120 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05%) | 105 W + 105 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) | 90 W + 90 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.08%) | -                                                  |
| <b>FM section</b>                                    |                                                      |                                                      |                                                    |                                                    |
| Tuning frequency range                               | 87.5 - 108.0 MHz                                     | 87.5 - 108.0 MHz                                     | 87.5 - 108.0 MHz                                   | 87.5 - 108.0 MHz                                   |
| Usable sensitivity                                   | 1.0 µV (11.2 dBf)                                    | 1.0 µV (11.2 dBf)                                    | 1.0 µV (11.2 dBf)                                  | 1.2 µV (12.8 dBf)                                  |
| <b>AM section</b>                                    |                                                      |                                                      |                                                    |                                                    |
| Tuning frequency range                               | 522 - 1611 kHz                                       | 522 - 1611 kHz                                       | 522 - 1611 kHz                                     | 522 - 1611 kHz                                     |
| Usable sensitivity                                   | 18 µV                                                | 18 µV                                                | 18 µV                                              | 18 µV                                              |
| Power supply                                         | AC 230 V, 50 Hz                                      | AC 230 V, 50 Hz                                      | AC 230 V, 50 Hz                                    | AC 230 V, 50 Hz                                    |
| Power consumption                                    | 670 W (Standby: 0.1 W)                               | 600 W (Standby: 0.3 W)                               | 460 W (Standby: 0.3 W)                             | 360 W (Standby: 0.3 W)                             |
| Dimensions (W x H x D)                               | 434 x 171 x 414 mm                                   | 434 x 171 x 377 mm                                   | 434 x 171 x 377 mm                                 | 434 x 171 x 378 mm                                 |
| Weight                                               | 12.9 kg                                              | 11.2 kg                                              | 10.7 kg                                            | 9.8 kg                                             |

| Power amplifier        |                                                                      |
|------------------------|----------------------------------------------------------------------|
|                        | <b>POA-A1HD</b>                                                      |
| Rated output           | 150 W (8 ohms) x 10ch<br>300 W (4 ohms) x 10ch<br>500 W (4 ohms) BTL |
| Power supply           | AC 230 V, 50 Hz                                                      |
| Dimensions (W x H x D) | 434 x 297 x 530 mm                                                   |
| Weight                 | 60 kg                                                                |



POA-A1HD



AVP-A1HDA



AVC-A1HDA



AVR-4810



AVR-4310



AVR-3310



AVR-2310



AVR-1910



AVR-1610

| Blu-ray disc player/transport            |                       |                       |                    |
|------------------------------------------|-----------------------|-----------------------|--------------------|
|                                          | DVD-A1UD              | DVD-3800BD            | DVD-2500BT         |
| <b>Video</b>                             |                       |                       |                    |
| Signal system                            | PAL                   | PAL                   | PAL                |
| <b>Audio</b>                             |                       |                       |                    |
| S/N                                      | 125 dB                | 125 dB                |                    |
| Total harmonic distortion                | 0.0008%               | 0.0008%               |                    |
| Dynamic range                            | 110 dB                | 110 dB                |                    |
| <b>General</b>                           |                       |                       |                    |
| Power supply                             | AC 230 V, 50 Hz       | AC 230 V, 50 Hz       | AC 230 V, 50 Hz    |
| Power consumption                        | 88 W (Standby: 0.3 W) | 68 W (Standby: 0.8 W) | 30 W               |
| Dimensions W x H x D (incl. protrusions) | 434 x 151 x 410 mm    | 434 x 139 x 399 mm    | 434 x 139 x 391 mm |
| Weight                                   | 18.9 kg               | 10.3 kg               | 9.2 kg             |

| Blu-ray disc player                      |                       | DVD player                    |                      |
|------------------------------------------|-----------------------|-------------------------------|----------------------|
|                                          | DBP-2010              | DBP-1610                      | DVD-1740             |
| <b>Video</b>                             |                       |                               |                      |
| Signal system                            | PAL/NTSC              | PAL/NTSC                      | PAL / NTSC           |
| <b>Audio</b>                             |                       |                               |                      |
| S/N                                      | 115 dB                | 115 dB                        |                      |
| Total harmonic distortion                | 0.004 %               | 0.004 %                       |                      |
| Dynamic range                            | 100 dB                | 100 dB                        |                      |
| <b>General</b>                           |                       |                               |                      |
| Power supply                             | AC 110-240V, 50/60 Hz | AC 110-240V, 50/60 Hz         |                      |
| Power consumption                        | 30 W (Standby: 0.4 W) | 30 W (Standby: 0.4 W)         |                      |
| Dimensions W x H x D (incl. protrusions) | 434 x 106 x 309.3 mm  | 434 x 106 x 309.3 mm          |                      |
| Weight                                   | 4.9 kg                | 4.1 kg                        |                      |
|                                          |                       | <b>DVD linear audio</b>       |                      |
|                                          |                       | Frequency Response            | 4 Hz - 20 kHz        |
|                                          |                       | Dynamic Range (DVD)           | 100 dB               |
|                                          |                       | <b>Power supply</b>           | AC 230 V, 50 Hz      |
|                                          |                       | <b>Power consumption</b>      | 8 W (standby: 0.3 W) |
|                                          |                       | <b>Dimensions (W x H x D)</b> | 435 x 75 x 310 mm    |
|                                          |                       | <b>Weight</b>                 | 2.3 kg               |



DVD-A1UD



DVD-3800BD



DVD-2500BT



DBP-2010



DBP-1610



DVD-1740

| Integrated amplifiers              |                                                    |                                                    |                                                    |                                                    |
|------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
|                                    | PMA-2010AE                                         | PMA-1500AE                                         | PMA-710AE                                          | PMA-510AE                                          |
| <b>Power amplifier section</b>     |                                                    |                                                    |                                                    |                                                    |
| <b>Rated output power</b>          |                                                    |                                                    |                                                    |                                                    |
| 8 ohms                             | 80 W + 80 W<br>(20 Hz - 20 kHz, 8 ohms, THD 0.07%) | 70 W + 70 W<br>(20 Hz - 20 kHz, 8 ohms, THD 0.07%) | 50 W + 50 W<br>(20 Hz - 20 kHz, 8 ohms, THD 0.07%) | 45 W + 45 W<br>(20 Hz - 20 kHz, 8 ohms, THD 0.07%) |
| 4 ohms                             | 160 W + 160 W<br>(1 kHz, 4 ohms, THD 0.7%)         | 140 W + 140 W<br>(1 kHz, 4 ohms, THD 0.7%)         | 85 W + 85 W<br>(1 kHz, 4 ohms, THD 0.7%)           | 70 W + 70 W<br>(1 kHz, 4 ohms, THD 0.7%)           |
| <b>Total harmonic distortion</b>   | 0.01% (rated output -3 dB, 8 ohms, 1 kHz)          | 0.01% (rated output -3 dB, 8 ohms, 1 kHz)          | 0.01% (8ohms, 1 kHz)                               | 0.02% (8ohms, 1 kHz)                               |
| <b>Pre amplifier section</b>       |                                                    |                                                    |                                                    |                                                    |
| <b>Input sensitivity/impedance</b> |                                                    |                                                    |                                                    |                                                    |
| PHONO MC                           | 0.2 mV/100 ohms                                    | 0.2 mV/100 ohms                                    | -                                                  | -                                                  |
| PHONO MM                           | 2.5 mV/47 kohms                                    | 2.5 mV/47 kohms                                    | 2.5 mV/47 kohms                                    | 2.5 mV/47 kohms                                    |
| LINE                               | 135 mV/47 kohms (Source Direct: OFF)               | 125 mV/47 kohms                                    | 105 mV/47 kohms                                    | 100 mV / 47 kohms (Source Direct : OFF)            |
| <b>General characteristics</b>     |                                                    |                                                    |                                                    |                                                    |
| <b>Signal-to-noise ratio</b>       |                                                    |                                                    |                                                    |                                                    |
| PHONO MC                           | 74 dB (0.5 mV input)                               | 74 dB (0.5 mV input)                               | -                                                  | -                                                  |
| PHONO MM                           | 89 dB (5 mV input)                                 | 89 dB (5 mV input)                                 | 86 dB (5 mV input)                                 | 84 dB (5 mV input)                                 |
| LINE                               | 108 dB (source Direct: ON)                         | 108 dB                                             | 107 dB (source Direct: OFF)                        | 105 dB (Source Direct: ON)                         |
| <b>Tone control</b>                |                                                    |                                                    |                                                    |                                                    |
| Treble                             | ± 8 dB at 10 kHz                                   | ± 8 dB at 10 kHz                                   | ± 8 dB at 10 kHz                                   | ± 8 dB at 10 kHz                                   |
| Bass                               | ± 8 dB at 100 Hz                                   | ± 8 dB at 100 Hz                                   | ± 8 dB at 100 Hz                                   | ± 8 dB at 100 Hz                                   |
| <b>General</b>                     |                                                    |                                                    |                                                    |                                                    |
| <b>Power supply</b>                | AC 230 V, 50 Hz                                    | AC 230 V, 50 Hz                                    | AC 230 V, 50 Hz                                    | AC 230 V, 50 Hz                                    |
| <b>Power consumption</b>           | 310W (Standby: less than 0.3 W)                    | 305 W                                              | 200 W (Standby: less than 0.3 W)                   | 185 W (Standby: less than 0.3 W)                   |
| <b>Dimensions (W x H x D)</b>      | 434 x 181 x 435 mm                                 | 434 x 134 x 410 mm                                 | 434 x 121 x 307 mm                                 | 434 x 121 x 307 mm                                 |
| <b>Weight</b>                      | 24.0 kg                                            | 14.6 kg                                            | 6.7 kg                                             | 6.5 kg                                             |

| CD/Super Audio CD players          |                                |                         |                                                |                                                |
|------------------------------------|--------------------------------|-------------------------|------------------------------------------------|------------------------------------------------|
|                                    | DCD-2010AE                     |                         | DCD-1500AE                                     |                                                |
|                                    | Super Audio CD                 | CD                      | Super Audio CD                                 | CD                                             |
| <b>Channels</b>                    | 2 channels                     | 2 channels              | 2 channels                                     | 2 channels                                     |
| <b>Frequency response</b>          | 2Hz - 50kHz (-3 dB)            | 2Hz - 20kHz             | 2Hz-50kHz                                      | 2Hz-20kHz                                      |
| <b>Dynamic range</b>               | 114 dB                         | 100 dB                  | 104dB                                          | 100 dB                                         |
| <b>Signal-to-noise ratio</b>       | 119 dB                         | 119 dB                  | 104 dB                                         | 110 dB                                         |
| <b>Total harmonic distortion</b>   | 0.0008 % (1 kHz, audible band) | 0.0017 % (1 kHz)        | 0.001%                                         | 0.002%                                         |
| <b>Wow &amp; flutter</b>           | Below measurable limit:        | Below measurable limit: | Below measurable limit:<br>(± 0.001 % W. peak) | Below measurable limit:<br>(± 0.001 % W. peak) |
| <b>Output voltage</b> : Unbalanced | 2.0 V (10 kohms)               | 2.0 V (10 kohms)        | 2.0V (10kΩ)                                    | 2.0V (10kΩ)                                    |
| : Balanced                         | -                              | -                       | -                                              | -                                              |
| <b>Digital output</b> : Coaxial    | -                              | 0.5 Vp - p/75 ohms      | -                                              | 0.5Vp-p/75Ω                                    |
| : Optical                          | -                              | -15 - -21 dbm           | -                                              | -15 --21dbm                                    |
| : Emission wavelength              | -                              | 660 nm                  | -                                              | 660nm                                          |
| <b>Digital input</b> : Format      | -                              | -                       | -                                              | -                                              |
| : Coaxial                          | -                              | -                       | -                                              | -                                              |
| : Optical                          | -                              | -                       | -                                              | -                                              |
| <b>Power supply</b>                | AC 230 V, 50 Hz                |                         | AC 230 V, 50 Hz                                |                                                |
| <b>Power consumption</b>           | 33 W (Stand-by less than 0.3W) |                         | 16 W                                           |                                                |
| <b>Dimensions (W x H x D)</b>      | 434 x 137 x 336 mm             |                         | 434 x 135 x 331 mm                             |                                                |
| <b>Weight</b>                      | 13.5 kg                        |                         | 7.6 kg                                         |                                                |

| CD players                       |                    |                    | CD changer         |  |
|----------------------------------|--------------------|--------------------|--------------------|--|
|                                  | DCD-710AE          | DCD-510AE          | DCM-500AE          |  |
| <b>Channels</b>                  | 2 channel stereo   | 2 channel stereo   | 2 channel stereo   |  |
| <b>Dynamic range</b>             | 100 dB             | 98 dB              | 98 dB              |  |
| <b>Signal-to-noise ratio</b>     | 110 dB             | 105 dB             | 108 dB             |  |
| <b>Total harmonic distortion</b> | 0.0025 % (1 kHz)   | 0.003% (1 kHz)     | 0.003%             |  |
| <b>Power supply</b>              | AC 230 V, 50 Hz    | AC 230 V, 50 Hz    | AC 230 V, 50 Hz    |  |
| <b>Power consumption</b>         | 22 W               | 13 W               | 15 W               |  |
| <b>Dimensions (W x H x D)</b>    | 434 x 107 x 279 mm | 434 x 107 x 279 mm | 434 x 120 x 400 mm |  |
| <b>Weight</b>                    | 4.2 kg             | 4.0 kg             | 6.3 kg             |  |



PMA-2010AE



DCD-2010AE

| Receivers                      |                                                                                                   |                                                                                                   |                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                | DRA-700AE                                                                                         | DRA-700AEDAB                                                                                      | DRA-500AE                                                                                       |
| <b>Power amplifier section</b> |                                                                                                   |                                                                                                   |                                                                                                 |
| Rated output                   | 80 W + 80 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)<br>105 W + 105 W<br>(1 kHz, 4 ohms, THD 0.7%) | 80 W + 80 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)<br>105 W + 105 W<br>(1 kHz, 4 ohms, THD 0.7%) | 75 W + 75 W<br>(8 ohms, 20 Hz - 20 kHz, THD 0.05 %)<br>95 W + 95 W<br>(1 kHz, 4 ohms, THD 0.7%) |
| <b>Preamplifier section</b>    |                                                                                                   |                                                                                                   |                                                                                                 |
| Input sensitivity/impedance    | PHONO (MM) : 2.5 mV/47 kohms<br>CD, VIDEO, TAPE 1, TAPE 2 :<br>150 mV/25 kohms                    | PHONO (MM) : 2.5 mV/47 kohms<br>CD, VIDEO, TAPE 1, TAPE 2 :<br>150 mV/25 kohms                    | CD, VIDEO, TAPE : 150 mV/25 kohms                                                               |
| Tone control                   | Bass 100 Hz : ±10 dB<br>Treble 10 kHz : ±10 dB                                                    | Bass 100 Hz : ±10 dB<br>Treble 10 kHz : ±10 dB                                                    | Bass 100 Hz : ±10 dB<br>Treble 10 kHz : ±10 dB                                                  |
| <b>FM section</b>              |                                                                                                   |                                                                                                   |                                                                                                 |
| Tuning frequency range         | 87.5 - 108.0 MHz                                                                                  | 87.5 - 108.0 MHz                                                                                  | 87.5 - 108.0 MHz                                                                                |
| Usable sensitivity             | 0.9 µV (10.3 dBf)                                                                                 | 0.9 µV (10.3 dBf)                                                                                 | 1.0 µV (10.3 dBf)                                                                               |
| <b>AM section</b>              |                                                                                                   |                                                                                                   |                                                                                                 |
| Tuning frequency range         | 522 - 1611 kHz                                                                                    | 522 - 1611 kHz                                                                                    | 522 - 1611 kHz                                                                                  |
| Usable sensitivity             | 18 µV                                                                                             | 18 µV                                                                                             | 18 µV                                                                                           |
| <b>DAB section</b>             |                                                                                                   |                                                                                                   |                                                                                                 |
| Tuning frequency range         | -                                                                                                 | 174.928 (5A) ~ 239.200 (13F) MHz<br>(BAND III)<br>1452.960 (LA) ~ 1490.624 (LW) MHz<br>(L-BAND)   | -                                                                                               |
| Usable sensitivity             | -                                                                                                 | -97 dBm                                                                                           | -                                                                                               |
| Power supply                   | AC 230 V, 50 Hz                                                                                   | AC 230 V, 50 Hz                                                                                   | AC 230 V, 50 Hz                                                                                 |
| Power consumption              | 245 W                                                                                             | 245 W                                                                                             | 235 W                                                                                           |
| Dimensions (W x H x D)         | 434 x 147 x 417 mm                                                                                | 434 x 147 x 417 mm                                                                                | 434 x 147 x 414 mm                                                                              |
| Weight                         | 9.7 kg                                                                                            | 9.9 kg                                                                                            | 9.0 kg                                                                                          |

| Tuners                    |                                                                                           |                                                                  |
|---------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|                           | TU-1800DAB                                                                                | TU-1500AE                                                        |
| <b>DAB tuner section</b>  |                                                                                           |                                                                  |
| Tuning frequency          | 174.928 (5A) - 239.200 (13F) MHz (BAND III)<br>1452.960 (LA) - 1490.624 (LW) MHz (L-BAND) | -<br>-                                                           |
| Sensitivity               | -99 dBm                                                                                   | -                                                                |
| Signal-to-Noise ratio     | 103 dB                                                                                    | -                                                                |
| THD + N                   | 0.007 % (1 kHz)                                                                           | -                                                                |
| Channel separation        | 87dB (1 kHz)                                                                              | -                                                                |
| Selectivity               | 40 dB (at adjacent channel)                                                               | -                                                                |
| Frequency response        | +0.5/-0.5 dB (5 Hz - 20 kHz)                                                              | -                                                                |
| Digital output            | Optical, Coaxial                                                                          | -                                                                |
| Analogue output level     | 2 Vrms                                                                                    | -                                                                |
| <b>FM section</b>         |                                                                                           |                                                                  |
| Tuning frequency          | 87.5 - 108.0 MHz                                                                          | 87.5 - 108.0 MHz                                                 |
| Usable sensitivity        | 1.0 µV (11.2 dBf), 1.2 µV (IHF)                                                           | 1.0 µV (11.2 dBf), 1.2 µV (IHF)                                  |
| Signal-to-noise ratio     | Mono 77 dB (IHF), 73 dB (DIN)<br>Stereo 72 dB (IHF), 68 dB (DIN)                          | Mono 77 dB (IHF), 73 dB (DIN)<br>Stereo 72 dB (IHF), 68 dB (DIN) |
| Total harmonic distortion | Mono 0.15%                                                                                | Mono 0.15%                                                       |
| Stereo 0.3%               | Stereo 0.3%                                                                               |                                                                  |
| Stereo separation (1 kHz) | 43dB                                                                                      | 43dB                                                             |
| <b>AM section</b>         |                                                                                           |                                                                  |
| Tuning frequency range    | 522 - 1611 kHz                                                                            | 522 - 1611 kHz                                                   |
| Usable sensitivity        | 18 µV                                                                                     | 18 µV                                                            |
| Signal-to-noise ratio     | 53 dB                                                                                     | 53 dB                                                            |
| Power supply              | AC 230 V, 50 Hz                                                                           | AC 230 V, 50 Hz                                                  |
| Power consumption         | 14 W                                                                                      | 10 W                                                             |
| Dimensions (W x H x D)    | 434 x 74 x 286 mm                                                                         | 434 x 73 x 286 mm                                                |
| Weight                    | 3.8 kg                                                                                    | 3.6 kg                                                           |

| Turntables             |                                               |                                                                                   |                                               |
|------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|
|                        | DP-300F                                       | DP-200USB                                                                         | DP-29F                                        |
| <b>Drive system</b>    |                                               |                                                                                   |                                               |
| Motor                  | Belt Drive Motor                              | Belt Drive Motor                                                                  | Belt Drive Motor                              |
| Motor                  | DC Servo Motor                                | DC Servo Motor                                                                    | DC Servo Motor                                |
| Speed                  | 33-1/3, 45 rpm                                | 33-1/3, 45 rpm                                                                    | 33-1/3, 45 rpm                                |
| Wow & flutter          | 0.10% (WRMS)                                  | 0.15 % (WRMS)                                                                     | Less than 0.15%                               |
| Signal-to-noise ratio  | 60 dB (DIN-B)                                 |                                                                                   | 60 dB (DIN-B)                                 |
| <b>Tonearm</b>         |                                               |                                                                                   |                                               |
| Type                   | Dynamically Balance type,<br>Straight Tonearm | Dynamically Balance type,<br>Straight Tonearm                                     | Dynamically Balance type,<br>Straight Tonearm |
| <b>Cartridge</b>       |                                               |                                                                                   |                                               |
| Type                   | MM (DSN-85)                                   | MM (DSN-84)                                                                       | MM (DSN-82)                                   |
| Output Voltage         | 2.5 mV                                        | 2.5 mV                                                                            | 2.5 mV                                        |
| Power supply           | AC 230 V, 50 Hz                               | AC 230 V, 50 Hz                                                                   | AC 230 V, 50 Hz                               |
| Power consumption      | 2 W                                           | 12 W                                                                              | 2 W                                           |
| Dimensions (W x H x D) | 434 x 122 x 381 mm                            | Dust cover closed 360 x 98 x 358 mm<br>Max., Dust cover opened 360 x 415 x 363 mm | 360 x 97 x 357 mm                             |
| Weight                 | 5.5 kg                                        | 3.2 kg                                                                            | 2.8 kg                                        |

| Cartridges       |                |                |                |                |                |
|------------------|----------------|----------------|----------------|----------------|----------------|
|                  | DL-103         | DL-103R        | DL-160         | DL-110         | DL-304         |
| Type             | MC             | MC             | MC             | MC             | MC             |
| Output voltage   | 0.3 mV         | 0.25 mV        | 1.6 mV         | 1.6 mV         | 0.18 mV        |
| Frequency range  | 20 Hz - 45 kHz | 20 Hz - 45 kHz | 20 Hz - 50 kHz | 20 Hz - 45 kHz | 20 Hz - 75 kHz |
| Output impedance | 40 ohms        | 14 ohms        | 160 ohms       | 160 ohms       | 40 ohms        |
| Weight           | 8.5 g          | 8.5 g          | 4.8 g          | 4.8 g          | 7 g            |

CX series

| Receiver                       |                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | <b>DRA-CX3</b>                                                                                                                                     |
| <b>Power amplifier section</b> |                                                                                                                                                    |
| Rated output                   | 75 W + 75 W<br>(8 ohms, DIN, THD 0.07 %)<br>150 W + 150 W<br>(1 kHz, 4 ohms, THD 0.7%)                                                             |
| <b>Preamplifier section</b>    |                                                                                                                                                    |
| Input sensitivity/impedance    | PHONO (MM): 2.5mV/47kohms<br>PHONO (MC): 0.2 mV/100 ohms<br>CD, LINE1, LINE2, LINE3 : 130 mV/47 kohms<br>Bass 100 Hz : ±8 dB Treble 10 kHz : ±8 dB |
| <b>FM section</b>              |                                                                                                                                                    |
| Tuning frequency range         | 87.5 - 108.0 MHz                                                                                                                                   |
| Usable sensitivity             | 1.5 µV (10.3 dBf)                                                                                                                                  |
| <b>AM section</b>              |                                                                                                                                                    |
| Tuning frequency range         | 522 - 1611 kHz                                                                                                                                     |
| Usable sensitivity             | 20 µV                                                                                                                                              |
| <b>Power supply</b>            |                                                                                                                                                    |
| Power consumption              | 105 W                                                                                                                                              |
| Dimensions (W x H x D)         | 300 x 80 x 341 mm                                                                                                                                  |
| Weight                         | 5.5 kg                                                                                                                                             |

| Super Audio CD Receiver                  |                                                                                                                                                                     |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Receiver section</b>                  | <b>RCD-CX1</b>                                                                                                                                                      |
| Rated output                             | 37.5 W + 37.5 W (8 ohms, DIN, 1 kHz, T.H.D. 0.7 %)<br>75 W + 75 W (4 ohms, DIN, 1 kHz, T.H.D. 0.7 %)                                                                |
| High frequency distortion                | 0.05 % (-3 dB at rated output, 8 ohms, 1 kHz)                                                                                                                       |
| Output terminals Speaker                 | 4 - 16 ohms                                                                                                                                                         |
| Equalizer amp output (REC OUT terminals) | Rated output: 150 mV                                                                                                                                                |
| Input sensitivity/ Input impedance       | PHONO (MM): 2.5 mV/47 kΩ<br>PHONO (MC): 0.2 mV/100 ohms<br>CD, LINE1, LINE2: 130 mV / 47 kΩ<br>PHONO(MM): 20 Hz - 20 kHz±0.5 dB<br>PHONO(MC): 30 Hz - 20 kHz±0.5 dB |
| RIAA deviation                           |                                                                                                                                                                     |
| Reception frequency range                | FM: 87.5 MHz - 108.0 MHz<br>AM: 522 kHz - 1611 kHz                                                                                                                  |
| S/N ratio                                | PHONO (MM): 84 dB<br>PHONO (MC): 70 dB                                                                                                                              |
| (A-weighted network)                     | LINE1, LINE2: 95 dB                                                                                                                                                 |
| Frequency response                       | 10 Hz - 40k Hz (+0.5 dB, -3 dB)                                                                                                                                     |
| <b>CD section</b>                        |                                                                                                                                                                     |
| Type                                     | Super Audio CD      CD                                                                                                                                              |
| Analogue output                          |                                                                                                                                                                     |
| Signal type                              | 1-bit DSD      16-bit linear PCM                                                                                                                                    |
| Sampling frequency                       | 2.822 MHz      44.1 kHz                                                                                                                                             |
| <b>Digital output</b>                    |                                                                                                                                                                     |
| Optical                                  | -      -15 -- -21dBm                                                                                                                                                |
| Emission wavelength                      | -      660 nm                                                                                                                                                       |
| <b>General</b>                           |                                                                                                                                                                     |
| Power supply                             | 230 V, 50 Hz                                                                                                                                                        |
| Power consumption                        | 50 W<br>Standby: 0.3 W                                                                                                                                              |
| Maximum external dimensions              | 300 x 110 x 341 mm                                                                                                                                                  |
| Weight                                   | 8.0 kg                                                                                                                                                              |

| Super Audio CD player      |                         |                         |
|----------------------------|-------------------------|-------------------------|
|                            | <b>DCD-CX3</b>          |                         |
|                            | Super Audio CD          | CD                      |
| Channels                   | 2 channels              | 2 channels              |
| Frequency response         | 2Hz-50kHz               | 2Hz-20kHz               |
| Dynamic range              | 109dB                   | 100 dB                  |
| Signal-to-noise ratio      | 112 dB                  | 118 dB                  |
| Total harmonic distortion  | 0.001%                  | 0.002%                  |
| Wow & flutter              | Below measurable limits | Below measurable limits |
| Output voltage: Unbalanced | 2.0V (10kΩ)             | 2.0V (10kΩ)             |
| Digital output : Coaxial   | -                       | 0.5Vp-p/75Ω             |
| : Optical                  | -                       | -15 -- -21dbm           |
| : Emission wavelength      | -                       | 660nm                   |
| Power supply               | AC 230 V, 50 Hz         |                         |
| Power consumption          | 24 W                    |                         |
| Dimensions (W x H x D)     | 300 x 80 x 310 mm       |                         |
| Weight                     | 7.0 kg                  |                         |

| Speaker systems        |                                                         |                                                         |
|------------------------|---------------------------------------------------------|---------------------------------------------------------|
|                        | <b>SC-CX303</b>                                         | <b>SC-CX101</b>                                         |
| Type                   | 2-way, 2-speakers<br>Reflex box / Low-leakage-flux      | 2-way, 2-speakers<br>Reflex box / Low-leakage-flux      |
| Drivers                | 13 cm cone bass-mid x1<br>2.5cm soft dome high range x1 | 12 cm cone bass-mid x1<br>2.5cm soft dome high range x1 |
| Frequency range        | 35 Hz - 60 kHz                                          | 45 Hz - 40 kHz                                          |
| Crossover frequency    | 3 kHz                                                   | 3 kHz                                                   |
| Max. input             | 100W (IEC), 200W (PEAK)                                 | 60W (IEC), 120W (PEAK)                                  |
| Input impedance        | 6 ohms                                                  | 6 ohms                                                  |
| Dimensions (W x H x D) | 182 x 276 x 293 mm                                      | 157 x 257 x 234 mm                                      |
| Weight (kg/unit)       | 8.7 kg                                                  | 5.2 kg                                                  |



DRA-CX3



DCD-CX3



RCD-CX1

F series

| CD Receiver                 |                                                                             |                                                                             |
|-----------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                             | F107DAB                                                                     | DRA-F107                                                                    |
| Power amplifier section     |                                                                             |                                                                             |
| Rated output                | 65 W + 65 W<br>(4 ohms, 1 kHz, T.H.D. 0.7%)                                 | 65 W + 65 W<br>(4 ohms, 1 kHz, T.H.D. 0.7%)                                 |
| Preamplifier section        |                                                                             |                                                                             |
| Input sensitivity/impedance | Phono (MM): 2.5 mV/47 kohms<br>CD, AUX1, AUX2, Portable In: 200 mV/47 kohms | Phono (MM): 2.5 mV/47 kohms<br>CD, AUX1, AUX2, Portable In: 200 mV/47 kohms |
| Tone control                | Bass 100 Hz : ±8 dB<br>Treble 10 kHz : ±8 dB<br>S.D.B.: 100 Hz + 10 dB      | Bass 100 Hz : ±8 dB<br>Treble 10 kHz : ±8 dB<br>S.D.B.: 100 Hz + 10 dB      |
| FM section                  |                                                                             |                                                                             |
| Tuning frequency range      | 87.5 - 108 MHz                                                              | 87.5 - 108 MHz                                                              |
| Usable sensitivity          | 1.5 µV (10.3 dBf)                                                           | 1.5 µV (10.3 dBf)                                                           |
| AM section                  |                                                                             |                                                                             |
| Tuning frequency range      | 522 - 1611 kHz                                                              | 522 - 1611 kHz                                                              |
| Usable sensitivity          | 20 µV                                                                       | 20 µV                                                                       |
| DAB tuner                   |                                                                             |                                                                             |
| Frequency Range             | BAND III 170MHz - 240MHz                                                    |                                                                             |
| General                     |                                                                             |                                                                             |
| Power supply                | AC 230 V, 50 Hz                                                             | AC 230 V, 50 Hz                                                             |
| Power consumption           | 44 W (standby 0.2 W)                                                        | 44 W (standby 0.2 W)                                                        |
| Dimensions (W x H x D)      | 250 x 82 x 250 mm (w/o terminals)<br>250 x 82 x 283 mm                      | 250 x 82 x 250 mm (w/o terminals)<br>250 x 82 x 283 mm                      |
| Weight                      | 2.6 kg                                                                      | 2.6 kg                                                                      |

M series

| CD Receivers            |                             |                             |
|-------------------------|-----------------------------|-----------------------------|
|                         | RCD-M37DAB                  | RCD-M37                     |
| Power Amplifier Section |                             |                             |
| Rated Output Power      | 30 W + 30 W (6 ohms, 1 kHz) | 30 W + 30 W (6 ohms, 1 kHz) |
| FM Section              |                             |                             |
| Frequency Range         | 87.5 - 108.0 MHz            | 87.5 - 108.0 MHz            |
| AM Section              |                             |                             |
| Frequency Range         | 522 - 1611 kHz              | 522 - 1611 kHz              |
| DAB Tuner               |                             |                             |
| Frequency Range         | BAND III 170MHz - 240MHz    | -                           |
| CD Player Section       |                             |                             |
| Type                    | Single CD Player            | Single CD Player            |
| Programming             | 25 tracks                   | 25 tracks                   |
| Power supply            |                             |                             |
|                         | 230 V, 50 Hz                | 230 V, 50 Hz                |
| Power consumption       |                             |                             |
|                         | 65 W                        | 65 W                        |
| Dimensions (W x H x D)  |                             |                             |
|                         | 210 x 115 x 308.5 mm        | 210 x 115 x 308.5 mm        |
| Weight                  |                             |                             |
|                         | 4.3 kg                      | 4.3 kg                      |

| CD player              |                                                        |
|------------------------|--------------------------------------------------------|
|                        | DCD-F107                                               |
| General                |                                                        |
| Channels               | 2 channels                                             |
| Power supply           | AC 230 V, 50 Hz                                        |
| Power consumption      | 25 W                                                   |
| Dimensions (W x H x D) | 250 x 82 x 250 mm (w/o terminals)<br>250 x 82 x 260 mm |
| Weight                 | 3.1 kg                                                 |

| Speaker system         |                                                         |
|------------------------|---------------------------------------------------------|
|                        | SC-F107                                                 |
| Type                   |                                                         |
|                        | 2-way, 2-speakers<br>Reflex box / Low-leakage-flux      |
| Drivers                |                                                         |
|                        | 14 cm cone bass-mid x1<br>2.5cm soft dome high range x1 |
| Frequency range        |                                                         |
|                        | 40 Hz - 40 kHz                                          |
| Max. input             |                                                         |
|                        | 60 W (IEC), 120 W (PEAK)                                |
| Input impedance        |                                                         |
|                        | 6 ohms                                                  |
| Dimensions (W x H x D) |                                                         |
|                        | 182 x 296 x 237 mm                                      |
| Weight                 |                                                         |
|                        | 5.2 kg/unit                                             |

| Speaker systems        |                                                    |
|------------------------|----------------------------------------------------|
|                        | SC-M37                                             |
| Type                   |                                                    |
|                        | 2-way, 2-speakers<br>Reflex box / Low-leakage-flux |
| Drivers                |                                                    |
|                        | 12 cm cone bass-mid x1<br>2.5cm dome high range x1 |
| Frequency range        |                                                    |
|                        | 45 Hz - 40 kHz                                     |
| Crossover frequency    |                                                    |
|                        | 3 kHz                                              |
| Max. input             |                                                    |
|                        | 60W (IEC), 120W (PEAK)                             |
| Input impedance        |                                                    |
|                        | 6 ohms                                             |
| Dimensions (W x H x D) |                                                    |
|                        | 145 x 233 x 234 mm                                 |
| Weight (kg/unit)       |                                                    |
|                        | 3.8 kg                                             |

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We at Denon give consideration to the environment in a variety of aspects from standby power reduction, use of recycled paper, resource saving packaging, elimination of hazardous substance, lead free engineering, to structural design intended for easy recycling.

Nippon Columbia was founded in 1910 as Japan's first record company and marked the start of the history of our pursuit for entertainment. From the beginning, we were actively engaged in a variety of revolutions in technology in order to establish new styles of entertainment.

"Denon" became the commonly known name for Japan Electric Recorders Mfg., Japan's first manufacturer of recording equipment launched in 1939 by audio engineers who completed the first Japanese-made disc recorder. In 1947, this company which had come to be representative of Japanese craftsmanship came under the umbrella of Nippon Columbia and merged in 1963.

Having continued to lead the analogue age based on momentum from both Japan Electric Recorders Mfg. and Nippon Columbia, Denon exhibited strong leadership also in the development of digital technology since 1970 which marked the dawn of the second revolution in audio and visual technology. In 1970, the DL-103 cartridge that Denon had been selling to broadcast stations was released to the general consumer market. On this occasion, the Denon brand was used for the first time on consumer-use equipment. Two years later, Denon developed and manufactured the world's first professional-use PCM recorder, an achievement that positioned Denon as a leader in digital technology for the remainder of the '70s and into the '80s.

In the '90s, the wave of the A/V revolution extended to the development of the home theatre. Denon reacted early to this wave and, through joint development efforts with Dolby Laboratories, THX, DTS and other companies, released an impressive series of world-first products. By marketing A/V products with original features, Denon succeeded in establishing a high-added-value market in the home theatre business.

Now in the 21st century, Denon continues to embrace state-of-the-art technologies and expertise and act as a leader in providing A/V products to consumers around the globe.

From now on, Denon will continue to be a "premium brand" belonging to the global group of top-class specialists providing dynamic sound and visual quality as well audio and home theatre products with unparalleled ease of use and reliability.

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