

# DENON

General catalogue

2008/2009





**Try the exceptional quality of a Denon and give yourself a lift  
in your enjoyment of a diverse range of music or video content.**

Home entertainment offers infinite possibilities. Home networking that supports content in various formats brings a wide range of content for nearly every aspect of daily life. We at Denon would like you to enjoy the music you want to listen to, or the visuals you want to see, wherever you are and whenever you want. We aim to bring you the quality of connectivity and expandability you expect of Denon, so that you can enjoy the music and visuals in the quality that has brought the Denon brand its world-renowned acclaim. Denon products are endowed with late-breaking advances in our unique technologies, a high level of perfection in sound and picture quality, and an ease of use that lets you smile even more.

Founded in 1910, Denon was the first audio company in Japan to sell LP records – as early as 1951.

In the early 1970s, Denon developed and manufactured the world's first practical digital PCM recorder and, in 1972, launched the first ever digitally recorded LPs. Over the years, Denon has built a formidable reputation, earning respect and numerous accolades around the world as a manufacturer of exceptional quality hi-fi products.

Recently, Denon has incorporated this experience and expertise into a top range of Audio-Video components, establishing an enviable position as one of the world's leading home cinema brands. Denon is known for pure yet premium quality products and, most importantly, time-tested expertise and craftsmanship. As an Audio-Visual manufacturer, Denon is devoted to producing audio and visual components at the forefront of technology. Today, the Denon name is synonymous with stunning high-impact visuals and dramatically detailed yet powerful surround sound. From high-definition home cinema to hi-fi and S-series systems, the ambience created by each and every Denon product denotes the true essence of original sound and an image of pure beauty.

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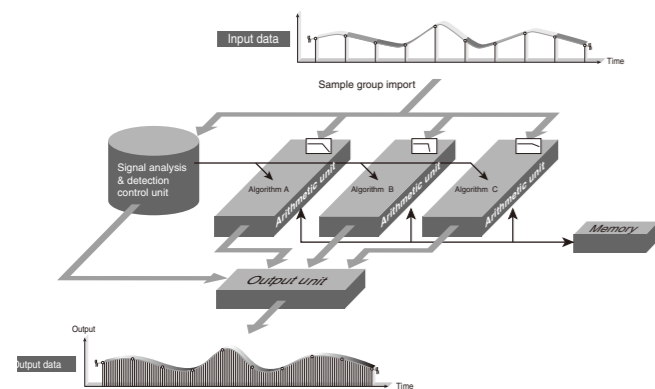
**DENON Link:** Connected via a shielded twisted pair (STP) RJ-45 fitted cable to a DENON Link-compliant A/V amplifier, the balanced signal transfer offers lower voltage than coaxial or unbalanced cables. Since DENON Link is far less susceptible to radiated noise, it ensures the highest level of signal 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.



**Advanced AL24 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 quantisation and band cutting at fs/2 (half the sampling frequency) during 44.1-kHz sampling. Denon was determined to tackle the problem of quantisation noise that remained in digital audio, and developed ALPHA (adaptive line pattern harmonised algorithm), a technology that reproduced 16-bit data with 20-bit quality and became a favourite with audiophiles around the world.

This development later progressed to 24-bit quality with the evolution of "AL24 Processing," and as support for higher resolutions and sampling continued to improve, Denon developed "AL24 Processing Plus" for the 192-kHz sampling of DVD-Audio.

Denon's most recent achievement is "Advanced AL24 Processing," a proprietary high-speed signal processing technology that expands the volume of data along the time axis in addition to the data expansion of existing AL24 Processing Plus technology.



*AL24 Processing Plus*

**AL24 Processing Plus:** Denon has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192-kHz sampling frequency of DVD-Audio. This new technology, called AL24 Processing Plus, thoroughly suppresses quantisation noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that brings out all the delicate nuances of the music. In high-end models, AL24 Processing Plus works for all channels.



**LAMBDA SLC:** The LAMBDA Super Linear Converter (SLC) design includes a LSI, developed by Denon, that divides the digital data into two streams to eliminate zero-cross distortion in a powerful DAC configuration. In the two data streams, there is no reversal of the MSB (Most Significant Bit), and the combined waveform also shows no zero-cross distortion. Even if there is distortion in the original information for a certain bit, the two signals are averaged, reducing the distortion by one half. On the other hand, if the signal level is larger than the amount of shift, the waveform will pass through the usual, unbiased zero-cross point and any distortions in the signal will then be reliably eliminated by the MSB compensation feature of the SLC.



**DDSC-Digital HD for high-quality sound reproduction for high definition source:** DDSC (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 source.

**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 depend, 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.



**All channel equal circuit:** Denon's A/V amplifiers and receivers are endowed with power amplifiers that deliver equal power and response to all channels, ensuring utter fidelity to a wide range of high-quality sound sources, from 2-channel stereo to advanced DVD-Audio, Super Audio CD, and Multi channel A/V sources such as Dolby Digital EX and DTS-ES. This all-channel equal circuit gives you the same quality sound in any format and in all channels. The power sections of Denon's A/V amplifiers and receivers use large transformers, high-capacity block capacitors, and other parts specially selected for their high-quality sonic characteristics to give you a robust yet wonderfully detailed sound.

**Pure audio construction:** A/V components contain analog audio, digital audio, video, control and many other circuits. The various circuits and blocks in Denon's A/V amplifiers and receivers are thus separated and shielded to prevent mutual interference among them. High-end models are designed with the power supply section in the centre and the power amp section on both sides as in a Hi-Fi amplifier.

**Pure direct mode:** Pure direct mode allows listeners to enjoy pure music of remarkably high quality. When Pure Direct is selected, power to the video circuitry and the fluorescent display is turned off. During analog sound input, power to the digital circuitry is also turned off, and adverse influences by other circuits on the audio circuitry are suppressed to the maximum extent possible.

**Rigid vibration-resistant chassis for high-precision playback:** As in pure audio components, A/V receivers and DVD players must also be thoroughly protected against the adverse influences of both internal and external vibrations. Denon products are built with a sophisticated vibration-resistant chassis that effectively eliminates these adverse influences on sound quality.

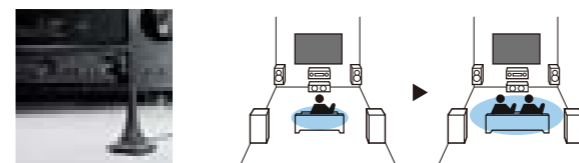
**Supports next generation high resolution formats:** Future system upgrade capability is provided with the Denon's A/V receivers 6/8 Channel External Input feature. For next generation high resolution multi-channel audio formats such as DVD-Audio and Super Audio CD, the 6/8 Channel External Input is equipped with a wide band frequency response extending to 100 kHz. In addition, the digital inputs support high resolution 24 bit, 96 kHz stereo PCM soundtracks, available on selected audiophile DVD music releases.



**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)



**Auto set up and room EQ:** Auto set up function performs basic settings for the speakers based on frequency response data for the speakers and the listening room that was measured by a supplied high-performance microphone, and a room EQ (equaliser) function that optimises frequency response characteristics for the listening room. (Measuring method or the algorithm used for roomEQ depends on models)



**Progressive Scan PAL and NTSC:** Denon's DVD players all offer high-grade IP conversion capabilities. In addition, Progressive conversion is possible for both PAL and NTSC signals. Besides the existing Pure Progressive circuit of Silicon Image, Inc., development work has been continuing in a circuit made by Faroudja, Inc., to ensure that Denon products are always equipped with the latest circuitry and devices. Both circuits offer superior moving picture detection capabilities that allow Denon's DVD players to play discs containing video material recorded in both Video mode and Film mode on the same disc. Faroudja also supplies the DCDi circuit that enhances Progressive conversion accuracy.

**Dual Discrete Video Circuit (D.D.V.C.):** Not only does Denon separate audio and video circuitry in its DVD players to maintain high sound and picture quality, the interlaced, Progressive, and SCART video output circuits are also arranged independent of each other. Isolated circuits and boards, the use of a box chassis, and even the encoder chips (in high-end models) are all exclusively dedicated to individual tasks to minimise mutual interference and ensure optimum picture quality.

**Multi-layer construction:** Various methods of absorbing vibration have been adopted in the design of Denon's 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.

**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 Bass Management:** When playing multi-channel Dolby Digital, DTS, LPCM or DVD-Audio/MLP sources, it is possible to preset speaker configurations and delay times. The crossover point is fixed at 80 Hz with 12 dB high and 24 dB low pass filter slopes.

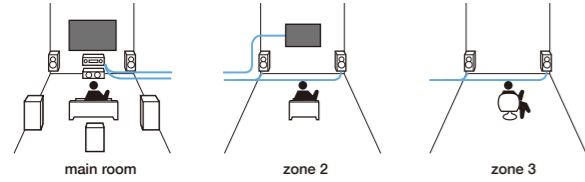


**UHC (Ultra High Current) Single Push-Pull Circuit:** For the past ten years, the dream of power amps has been to support low-impedance speakers. Unfortunately, however, the fulfilment of this dream has always been a difficult proposition, and Denon eventually felt the need to rethink its approach. 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 pace 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. Denon's simple and straight circuit design makes all possible.

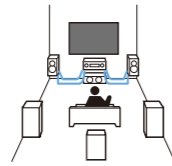
**Minimum Signal Path:** The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback. Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

**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.

**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)



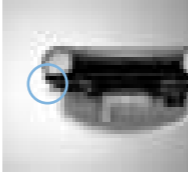
**Power amplifier assign function (Assignable surround back amplifier):** Power Amplifier Assign function lets you assign the 2 Surround Back (SB L/R) amplifier channels to drive the Zone 2 (or Zone 3) speakers. Or with this function, front speakers can be bi-wired to improve playback quality in the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












**D.D.L. (Denon Double Layer) cone:** The newly-developed D.D.L. (Denon Double Layer) cone has been used for the woofer diaphragm (SC-F102/103, SC-CX303, SC-CX101). This dual-layer diaphragm whose structure is the result of meticulous simulations is both highly rigid and lightweight 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.



**Acoustic optimiser:** Optimum acoustic characteristics are achieved by adjusting the sound pressure balance in front of and behind the diaphragm of the headphones.



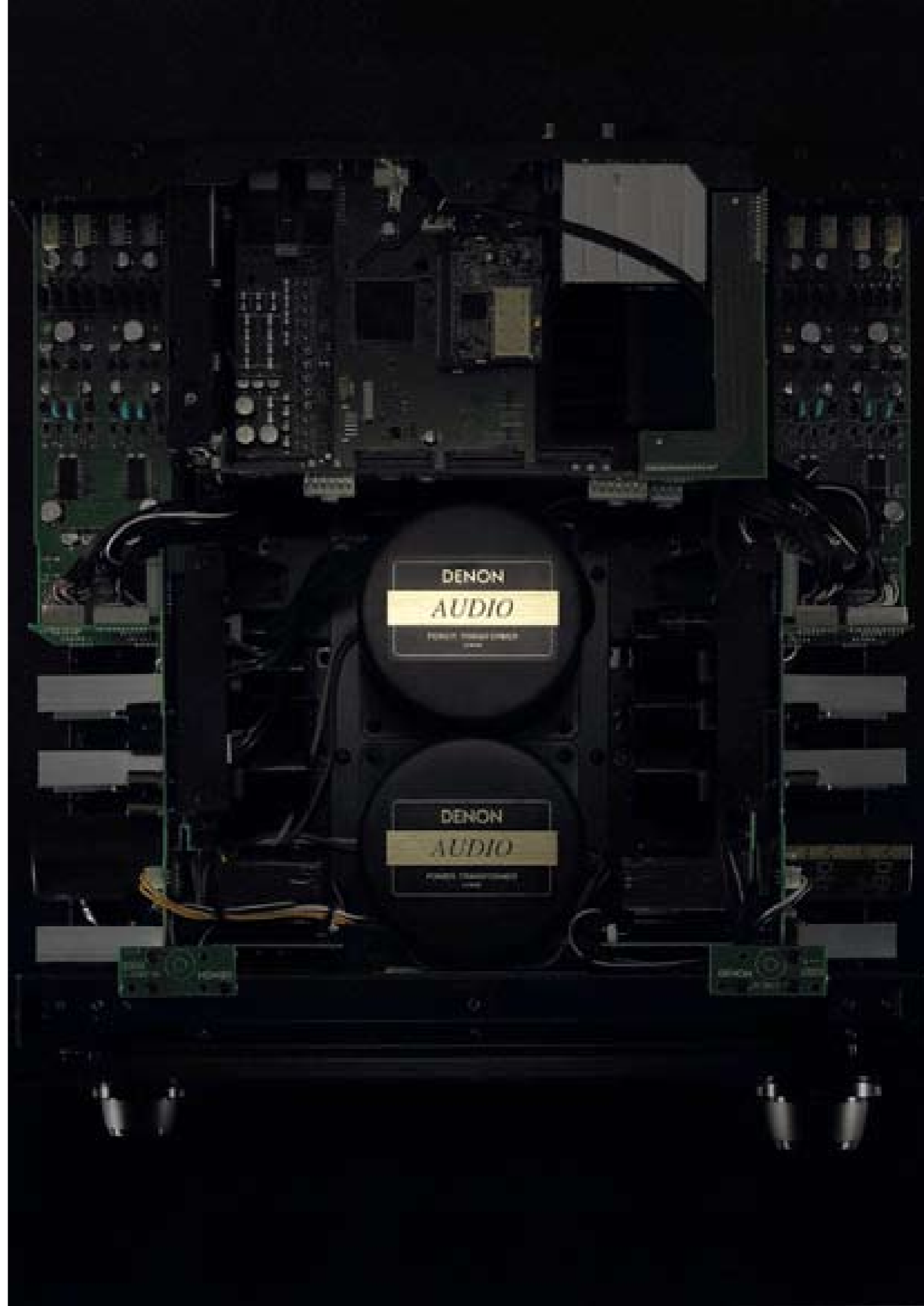
## Icons

-  Equipped with 8ch External inputs
-  Multi channel stereo mode (The number of channels depends on product)
-  Plays MP3 files on CD-R/RW / DVD-R/RW
-  Multi zone construction capability.
-  Remote control with light-pool type keys.
-  Remote control with electroluminescence (EL) display and backlight keys
-  Remote control with backlight keys
-  2-way remote RC-7000CI/RC-7001RCI compliant
-  Personal Memory Plus

## Colours

Thumbnails below show the main colours for our AV component products. You can see availability of colors of the product with the icons.

-  ○ Premium Silver
-  ● Dark Silver
-  ● Black



# AVP-A1HDA

AV Pre-Amplifier

Reference Next Generation HD Control Centre featuring Advanced Connectivity, Wi-Fi Network Audio Streaming and Finest Construction and Craftsmanship to bring you the Ultimate A/V Experience.



○ Premium Silver



# POA-A1HD

Power Amplifier

Reference 150 Watts x 10 channel Fully Configurable Power Amplifier



○ Premium Silver



# AVP-A1HDA

AV Pre-Amplifier

## THX® Ultra2 certified A/V HD Surround Pre Amplifier

### The Latest HD Audio and Video Support

- New lossless audio formats Dolby True HD and DTS-HD Master Audio decoders.
- New advanced audio formats Dolby Digital Plus and DTS-HD High Resolution Audio decoders
- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI1.3a inputs/outputs allow to handle HD audio and video signal with higher speed.

### State-of-the-art Denon Solutions for Maximising Content Quality

- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - Discrete Devices for ultimate performance in each block
  - Three New 32bit floating point DSP
  - Master clock design for more accurate processing and less jitter noise.
  - Advanced AL24 processing provides more dynamic range and improve low level sound details.
- Compressed Audio Restorer
  - Denon's new audio technology for MP3/WMA/AAC compressed format to reproduce higher frequency range and deeper bass sound. This new audio technology provides better sound for iPod, USB player and network streaming audio.
- Latest version Mult EQ XT
  - New tower type microphone for more accurate measuring
  - Maximum eight points measurements
  - New filtering ALFC(Adaptive Low Frequency Correction) for higher resolution processing in low frequency band.
- Dynamic EQ, for loudness correction at all volume levels
- 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
  - Denon Picture Image Correction (DPIC) circuitry
  - 12bit/216MHz video encoder and decoder with NSV
  - Analog to HDMI up conversion and HDMI to HDMI up conversion
- New Chassis Construction for clear audio and video signal
  - Minimum signal path
  - Direct Mechanical Ground for stable drive
  - Separate unit design

### Digital Media Connectivity

- Network
  - Playback music file from PC or DLNA server
  - AAC, WMA, MP3, FLAC, WAV file support
  - Playback over 7000 internet radio stations
  - JPEG Photo slide show
  - Wired network or Wi-Fi IEEE 802.11 b and g
  - WEB system control via network
- iPod audio, photo and video playback (optional ASD product family)
- Mass storage support USB for audio and photo playback
- Dual HDMI output simultaneously
- Dual component outputs

# POA-A1HD

Power Amplifier

## THX® Ultra2 certified 10-ch Power Amplifier

- High-Power amplifier circuit, 150 W x 10 ch
- 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.
- 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.

### Ease-of-Use

- Audyssey Dynamic Volume
- New Graphical User Interface
  - Newly developed user interface for easy operation, setup and digital media browsing.
  - Album art support for iPod/Network/USB
  - Meta data (title, artist, album) for iPod/Network/USB
  - Multi language support
  - Available for 1080p HDMI signal
  - Zone 2 OSD
- Multi-lingual support for GUI
- Auto set-up and Room EQ, featuring MultEQ XT from Audyssey
- Includes dedicated remote control unit for all zones
- Auto Lip Sync (HDMI 1.3a)
- New back panel layout
- HDMI CEC: Consumer Electronics Control

### Multi Zone Capability

- Four Zone multi source capability
- Digital to analog conversion for multi zone output
- Zone2 OSD
- Independent zone component output
- Remote in/out
- RS-232C control
- Web control



# AVC-A1HDA

AV Surround Amplifier



Premium Silver



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

### The Latest HD Audio and Video Support

- New lossless audio formats Dolby True HD and DTS-HD Master Audio decoders.
- New advanced audio formats Dolby Digital Plus and DTS-HD High Resolution Audio decoders
- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI1.3a inputs/outputs allow to handle HD audio and video signal with higher speed.

### State-of-the-art Denon Solutions for Maximising Content Quality

- Identical quality and power for all 7 channels, 150W x 7ch
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - Discrete Devices for ultimate performance in each block
  - Three New 32bit floating point DSP
  - Master clock design for more accurate processing and less jitter noise.
  - Advanced AL24 processing provides more dynamic range and improve low level sound details.
- Compressed Audio Restorer
  - Denon's new audio technology for MP3/WMA/AAC compressed format to reproduce higher frequency range and deeper bass sound. This new audio technology provides better sound for iPod, USB player and network streaming audio.
- Latest version Mult EQ XT
  - New tower type microphone for more accurate measuring
  - Maximum eight points measurements
  - New filtering ALFC(Adaptive Low Frequency Correction) for higher resolution processing in low frequency band.
- Dynamic EQ, for loudness correction at all volume levels
- 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
  - Denon Picture Image Correction (DPIC) circuitry
  - 12bit/216MHz video encoder and decoder with NSV
  - Analog to HDMI up conversion and HDMI to HDMI up conversion
- New Chassis Construction for clear audio and video signal
  - Minimum signal path
  - Direct Mechanical Ground for stable drive
  - Separate unit design
  - Large solid speaker terminals, made of gold-plated, machined brass

### Digital Media Connectivity

- Network
  - Playback music file from PC or DLNA server
  - AAC, WMA, MP3, FLAC, WAV file support
  - Playback over 7000 internet radio stations
  - JPEG Photo slide show
  - Wired network or Wi-Fi IEEE 802.11 b and g
  - WEB system control via network
- iPod audio, photo and video playback (optional ASD product family)
- Mass storage support USB for audio and photo playback

- Dual HDMI output simultaneously
- Dual component outputs

### Ease-of-Use

- Audyssey Dynamic Volume
- New Graphical User Interface
  - Newly developed user interface for easy operation, setup and digital media browsing.
  - Album art support for iPod/Network/USB
  - Meta data support (title, artists, album) for iPod/Network/USB
  - Multi language support
  - Available for 1080p HDMI signal
  - Zone 2 OSD
- Multi-lingual support for GUI
- Auto set-up and Room EQ, featuring MultEQ XT from Audyssey
- Includes dedicated remote control unit for all zones
- Auto Lip Sync (HDMI 1.3a)
- New back panel layout
- Supports Denon 2-way remote control units (RC-7000CI, RC-7001RC; sold separately)
- HDMI CEC: Consumer Electronics Control

### Multi Zone Capability

- Four Zone multi source capability
- Digital to analog conversion for multi zone output
- Zone2 OSD
- Independent zone component output
- Remote in/out
- RS-232C control
- Web control



# DVD-3800BD

Blu-ray Disc Player



- Premium Silver
- Dark Silver
- Black



- 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 Bit-Rate 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 (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

- 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)
- Supports DivX file playback (Ver. 6)
- Supported memory cards and playback files
- Supports extended functions for BD-Video
- Includes easy-to-use remote control unit



# DVD-2500BT

Blu-ray Disc Transport



- Premium Silver
- Dark Silver
- Black



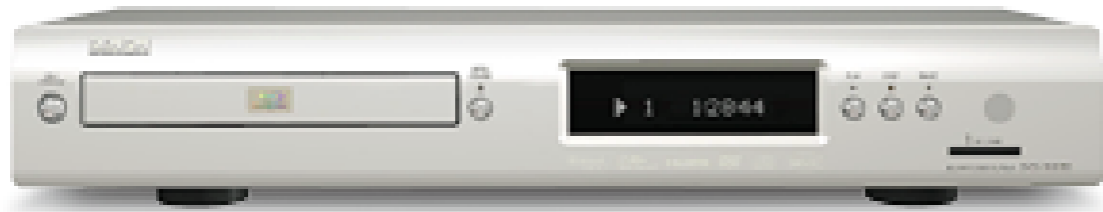
- BD Transport for faithful transmission of Full HD video and HD audio signal
- 1080/24p output, to bring out the full quality of film
- HDMI output for HD video and audio signal transmission (Ver.1.3a with Deep Color, High Bit-Rate Audio Output)
- I/P conversion and scaling up to 1080p
- Separate blocks to suppress interference between circuits
- Precision Drive Mechanism, a Denon original
- 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)

- Supports DivX file playback (Ver. 6)
- Supported memory cards and playback files
- Supports extended functions for BD-Video
- Includes easy-to-use remote control unit



# DVD-1800BD

Blu-ray Disc Player



- Premium Silver
- Black



- 1080/24p video 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 Bit-Rate Audio Output)
- Digital Noise Reduction, to optimize effects (DVD)
- Picture Adjustment function (Brightness/Contrast/Colour/Gamma Correction/Sharpness)
- I/P conversion and scaling up to 1080p (DVD)
- Dolby® TrueHD /DTS®-HD bitstream out
- Pure Direct mode, for greater audio signal purity
- Parts strictly selected for high sound quality

- 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)
- Supports extended functions for BD-Video
- Supports DivX file playback (Ver. 6)
- Supported memory cards and playback files
- Includes easy-to-use remote control unit

	AVP-A1HDA	AVC-A1HDA
<b>Decoder</b>		
THX SURROUND EX	•	•
DOLBY	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIx	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIx
DTS	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6
DTS 96/24	•	•
HDCCD	•	•
<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/ Multizone
<b>Video input terminals</b>		
HDMI (*1)(*2)	6 (with up to 7.1 PCM Audio)	6 (with up to 7.1 PCM Audio)
Component video	6	6
S-Video (incl. front panel)	8	8
<b>Video output terminals</b>		
HDMI (*1)(*2)	2	2
Component Video	2+Zone2	2+Zone2
S-Video	4+Zone2	4+Zone2
<b>Audio input terminals</b>		
EXT. IN	8ch x1	8ch x1
Digital (Coaxial)	4	4
Digital (Optical) (incl. front panel)	5	5
Analog	2+phono+XLR for CD	2+phono
DENON Link	1	1
<b>Audio output terminals</b>		
Digital (Coaxial)		
Digital (Optical)	3+Zone2	3+Zone2
Pre Out	9.3ch/Zone2/Zone3 XLR(9.3ch) + SW2 + SW3	9.3ch/Zone2/Zone3
<b>Audio/Video Inputs (incl. front panel)</b>	9	8

	AVP-A1HDA	AVC-A1HDA
<b>Other connections</b>		
RS-232C	•	•
Wi-Fi	•	•
Ethernet	•	•
Internet radio/ Audio streaming	•	•
Web control	•	•
iPod	• (*3)	• (*3)
USB	2 (Selectable)	2 (Selectable)
<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/ 110/120/150/200/250Hz	40/60/80/90/100/ 110/120/150/200/250Hz
Component video switching	•	•
S-Video switching	•	•
Video up/down conversion	Composite <-> S-video <-> Component -> HDMI	Composite <-> S-video <-> 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		
<b>Tuner</b>		
RDS (radio data system)		
Radio Text		
Auto surround mode	•	•
Multi channel stereo mode	•	•
<b>HDMI</b>		
	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,

(\*1) Version 1.3a compliant. HDMI audio output capacity is dependent on the monitor being used.  
 (\*2) HDMI and DVI 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.  
 (\*3) Requires optional control dock for iPod, ASD product family.

	DVD-3800BD	DVD-1800BD	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	
Audio DAC		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/ DVD-Audio/ SACD		•/•/•/•	
Time alignment for BD/DVD-Video/ DVD-Audio/ SACD		•/•/•/•	•/•/•/•
<b>Video output terminals</b>			
SCART RGB			
Composite	1	1	
S-video	1	1	
Component	1 (RCA) , 1(BNC)	1	
HDMI (*2)(*3)	1	1	1
<b>Audio output terminals</b>			
Digital (Coaxial / Optical)		1 / 1	
Analog		2ch x1, 5.1ch x1	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	ver.6	ver.6	ver.6

(\*1) Discs that have been poorly finalised following recording may be only partially playable or not playable at all.  
 (\*2) Version 1.1 compliant. HDMI audio output capacity is dependent on the monitor being used. (DVD-1940)  
 (\*3) HDMI and DVI 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.

## Enjoy Your Music Anytime, Anywhere In High-quality Sound - Wirelessly

Denon Home Networking contains the latest technological advances on a foundation of technology and experience that Denon has built up and refined over many years. The Denon concept is to let you and your family enjoy music in high-quality sound anywhere in the home, whenever you like.

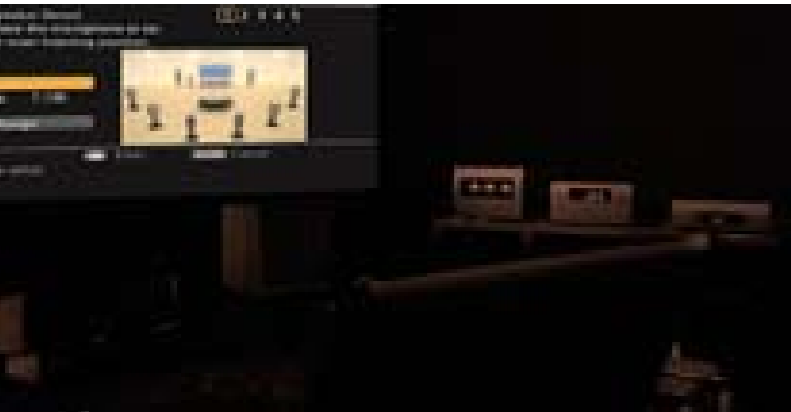
**Anytime:** Enjoy the music libraries on your computers and other places anytime you like.

**Anywhere:** Enjoy your music libraries in the Home Theatre, Dining Room, Study Room, or Bedroom using Denon's multi-room or networking functions (wired or wireless).

**With ease:** The Graphical User Interface (GUI) makes operation very easy and intuitive.

Below are some examples of how you can use Denon's powerful new products to enjoy various kinds of content in the home. How you set up your system is up to you. Denon Home Networking even lets you include your existing system.

# Network



### Building a Multi-room System – Theatre Room

Let's set up the AVC-A1HD in the Theatre Room. Since the power amp has 7 channels, you can allot some of them to other rooms as well. For instance, you could set up speakers in the Theatre Room to enjoy 5.1-channel high-definition sound plus two speakers in the Family Room to enjoy 2-channel stereo sound. This setup also lets you run different content in the two rooms at the same time.

The family-friendly GUI is easier to read and use so that you can make amp and other settings more intuitively.

AVC-A1HD - See page 11

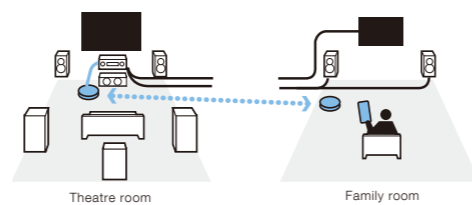
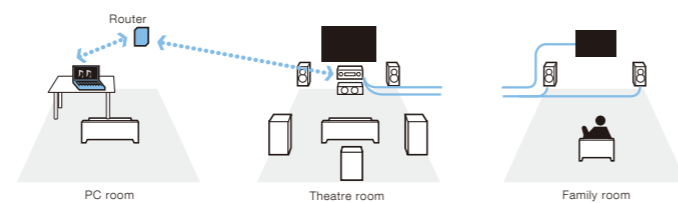
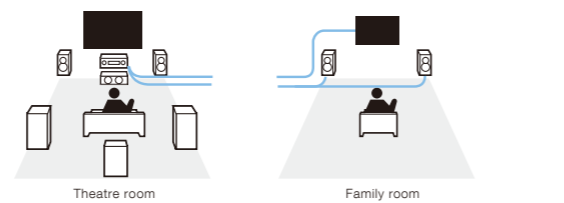
### Building a Network – PC Room (Music libraries on your computer)

Denon Networking lets enjoy the music libraries stored on your computers. For instance, the AVC-A1HD can receive music files from a computer wirelessly, so if you use the multi-room function, you can enjoy those files in the Family Room as well.

But how do you select the music you want to hear when you're in the Family Room? That's where the RC-7000CI and the RC-7001RCI come in.

This remote controller and remote receiver let you engage in 2-way communication. While you are sitting on the sofa in the Family Room, you can select music files from a computer and operate the AVC-A1HD while viewing the LCD screen on the RC-7000CI.

RC-7000CI - See page 23

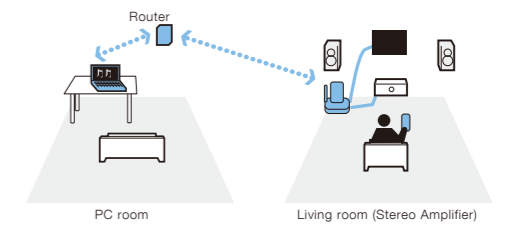
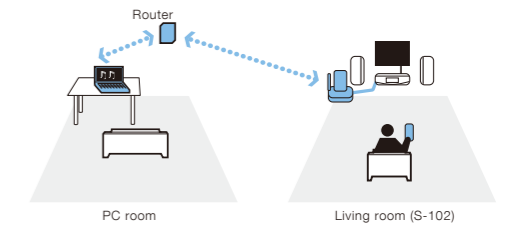


### Adding non-networking audio devices to the network – Living Room –

Let's say you've set up an S-102 in the Living Room so that you can conveniently enjoy your DVD Home Theatre. While the S-102 itself cannot be networked, it still lets you enjoy music libraries from your computers while you're in the Living Room. Now let's set up an ASD-3W. The ASD-3W not only connects an iPod to the S-102, it also networks with computers. It's easy to select music files, too. You use the ASD-3W's remote control unit to select music while viewing the TV screen connected to the S-102, very much like you would if you were in the Theatre Room. This is easy to do thanks to the GUI in the ASD-3W.

If you have a stereo receiver or integrated amp in the Living Room, you connect the ASD-3W to the amp and your TV to the ASD-3W. You can enjoy music libraries from your computers in the same way with this setup.

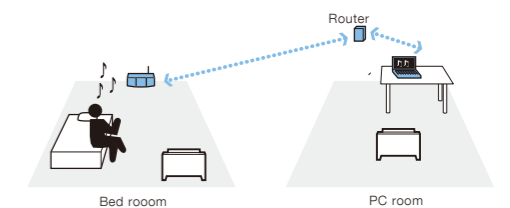
ASD-3W - See page 29



### So easy and convenient. – Bedroom –

Despite its compact size, the S-52 lets you easily enjoy music in a big, dynamic sound. It's a new network system that lets you enjoy your iPod, music libraries from your computers, Internet radio programs, and of course FM/AM radio and CDs, too.

S-52 - See page 50



# AVR-4308A

AV Surround Receiver



**A/V HD Surround Receiver featuring Advanced Connectivity, Network Audio Streaming and an interface that enhances your level of entertainment enjoyment.**

### The Latest HD Audio and Video Support

- New lossless audio formats Dolby TrueHD and DTS-HD Master Audio decoders
- New advanced audio formats Dolby Digital Plus and DTS-HD High Resolution Audio decoders
- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI 1.3a inputs/outputs allow to handle HD audio and video signal with higher speed.

### State-of-the-art Denon Solutions for Maximising Content Quality

- Identical quality and power for all 7 channels, 140W x 7ch
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - Discrete Devices for ultimate performance in each block
  - Dual New 32bit floating point DSP
  - Master clock design for more accurate processing and less jitter noise.
  - Advanced AL24 processing provides more dynamic range and improve low level sound details.
- Compressed Audio Restorer
  - Denon's new audio technology for MP3/WMA/AAC compressed format to reproduce higher frequency range and deeper bass sound. This new audio technology provides better sound for iPod, USB player and network streaming audio.
- Latest version MultEQ XT
  - New tower type microphone for more accurate measuring
  - Maximum eight points measurements
  - New filtering ALFC(Adaptive Low Frequency Correction) for higher resolution processing in low frequency band.
- HD Video Circuit
  - Discrete devices for ultimate HD video performance in each block.
  - Faroudja DCDi Processing up to 1080p
  - 12bit/216MHz video encoder and decoder with NSV
  - Analog to HDMI up conversion and HDMI to HDMI up conversion
- New Chassis Construction for clear audio and video signal
  - Minimum signal path
  - Direct Mechanical Ground for stable drive
  - Separate unit design
  - Large solid speaker terminals, made of gold-plated, machined brass

### Digital Media Connectivity

- Network
  - Playback music file from PC or DLNA server
  - AAC, WMA, MP3, FLAC, WAV file support
  - Playback over 7000 internet radio stations
  - JPEG Photo slideshow
  - Wired network or Wi-Fi IEEE 802.11 b and g
  - WEB system control via network
- iPod audio, photo and video playback (optional ASD product family)

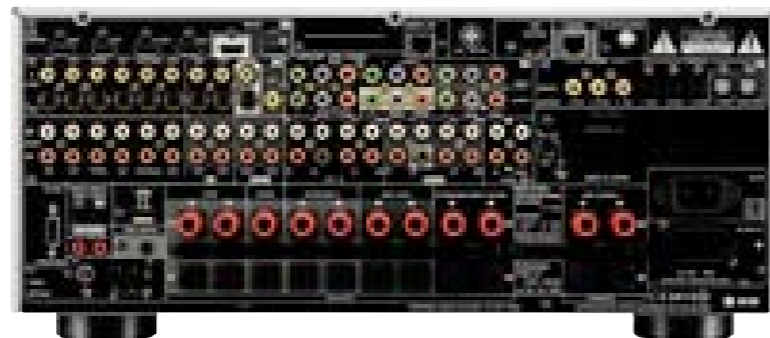
- Mass storage support USB for audio and photo playback
- Dual HDMI output simultaneously
- Dual component outputs

### Ease-of-Use

- Audyssey Dynamic Volume and Dynamic EQ
- New Graphical User Interface
  - Newly developed user interface for easy operation, setup and digital media browsing.
  - Album art support for iPod/Network/USB
  - Meta data support (title, artist, album) for iPod/Network/USB
  - Multi language support
  - Available for 1080p HDMI signal
  - Zone2 OSD
- Multi-lingual support for GUI
- Auto set-up and Room EQ, featuring MultEQ XT from Audyssey
- Includes dedicated remote control unit for all zones
- Auto Lip Sync (HDMI 1.3a)
- New back panel layout
- Supports Denon 2-way remote control units (RC-7000CI, RC-7001RCI; sold separately)
- HDMI CEC: Consumer Electronics Control

### Multi Zone Capability

- Four Zone multi source capability
- Digital to analog conversion for multi zone output
- Zone2 OSD
- Independent zone component output
- Remote in/out
- RS-232C control
- Web control



# AVR-3808A

AV Surround Receiver



**A/V HD Surround Receiver featuring Advanced Connectivity, Network Audio Streaming and an interface that enhances your level of entertainment enjoyment.**

### The Latest HD Audio and Video Support

- New lossless audio formats Dolby TrueHD and DTS-HD Master Audio decoders
- New advanced audio formats Dolby Digital Plus and DTS-HD High Resolution Audio decoders
- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI 1.3a inputs/outputs allow to handle HD audio and video signal with higher speed.

### State-of-the-art Denon Solutions for Maximising Content Quality

- Identical quality and power for all 7 channels, 130W x 7ch
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - Discrete Devices for ultimate performance in each block
  - Dual New 32bit floating point DSP
  - Master clock design for more accurate processing and less jitter noise.
  - AL24 processing plus provides more dynamic range and improve low level sound details.
- Compressed Audio Restorer
  - Denon's new audio technology for MP3/WMA/AAC compressed format to reproduce higher frequency range and deeper bass sound. This new audio technology provides better sound for iPod, USB player and network streaming audio.
- Latest version MultEQ XT
  - New tower type microphone for more accurate measuring
  - Maximum eight points measurements
  - New filtering ALFC (Adaptive Low Frequency Correction) for higher resolution processing in low frequency band.
- HD Video Circuit
  - Discrete devices for ultimate HD video performance in each block.
  - Faroudja DCDi Processing up to 1080p
  - 12bit/216MHz video encoder and decoder with NSV
  - Analog to HDMI up conversion and HDMI to HDMI up conversion
- New Chassis Construction for clear audio and video signal
  - Minimum signal path
  - Direct Mechanical Ground for stable drive
  - Separate unit design

### Digital Media Connectivity

- Network
  - Playback music file from PC or DLNA server
  - AAC, WMA, MP3, FLAC, WAV file support
  - Playback over 7000 internet radio stations
  - Wired network
  - WEB system control via network
- iPod audio, photo and video playback (optional ASD product family)
- Mass storage support USB for audio playback
- Dual component outputs

### Ease-of-Use

- Audyssey Dynamic Volume and Dynamic EQ
- New Graphical User Interface
  - Newly developed user interface for easy operation, setup and digital media browsing.
  - Title text for iPod/Network/USB
  - Multi language support
  - Available for 1080p HDMI signal
  - Zone2 OSD
- Multi-lingual support for GUI
- Auto set-up and Room EQ, featuring MultEQ XT from Audyssey
- Includes dedicated remote control unit for all zones
- Auto Lip Sync (HDMI 1.3a)
- New back panel layout
- Supports Denon 2-way remote control units (RC-7000CI, RC-7001RCI; sold separately)
- HDMI CEC; Consumer Electronics Control

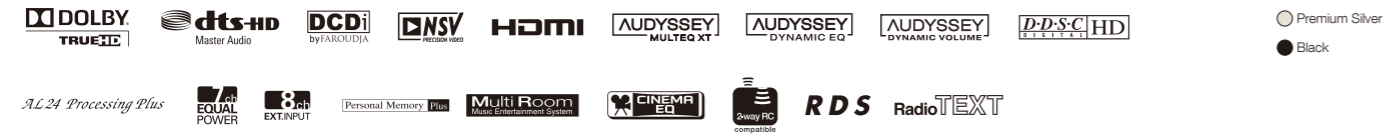
### Multi Zone Capability

- Three Zone multi source capability
- Zone2 OSD
- Remote in/out
- RS-232C control
- Web control



# AVR-2809

AV Surround Receiver



### The Latest HD Audio and Video Support

- Lossless audio formats Dolby True HD and DTS-HD Master Audio decoders
- HDMI (ver. 1.3a supporting Deep Colour 30/36-bit, "x.v.Color", High-Bit-Rate Audio input)

### State-of-the-art Denon Solutions for Maximizing Content Quality

- Identical quality and power for all 7 channels, 115W x 7ch
- Discrete devices for ultimate performance in each block
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
  - Dual New 32-bit floating point high precision DSP processors
  - AL24 Plus processing provides extended dynamic range
- Minimum signal path design
- Direct Mechanical Ground for stable drive
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer
- Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs
  - Faroudja DCDi Video Processing
  - Analog video to HDMI scaling up to 1080p
  - 1080p video pass through
- 4 HDMI inputs (Audio and Video)

### Digital Media Connectivity

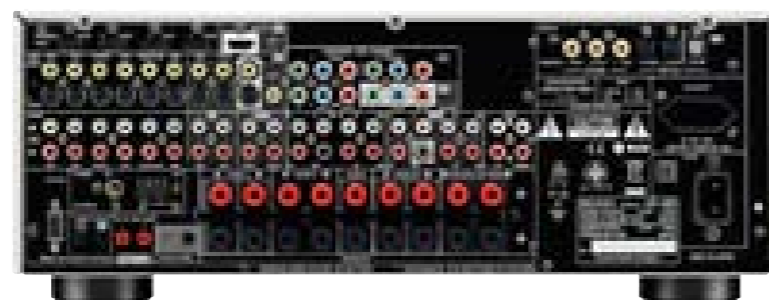
- Network Audio/Photo Ready (optional ASD-3N/3W)
- iPod Audio/Photo and Video playback (optional ASD-11R/3N/3W)

### Multi-Zone Capability

- Power amplifier assigns for zone 2 or 3
- RS-232C control, Trigger output
- Includes dedicated zone remote control unit
- 2way remote ready (optional: DENON RC-7000CI/RC-7001RCI)

### Ease-of-Use

- Dynamic Volume and Dynamic EQ
- Mult EQ XT Auto setup and Room EQ
- 2-line fluorescent display on front panel
- EL programmable remote control unit
- Three Quick Select Buttons
- Auto setup, auto surround, auto signal detection
- Auto Surround Back Channels on for auto-detection of supporting sources
- Auto Surround mode
- Audio Delay function (max. 6 frames or 200 msec)
- Night Mode for neighbor friendly listening
- Muting level settings (Full/-40dB/-20dB)
- Audio Level Memory, capable of correcting different signal levels for each input device
- Volume Level Limiter, for setting maximum volume levels
- Power-ON Volume Level Memory
- Variable subwoofer crossover switching



# AVR-2309

AV Surround Receiver



### The Latest HD Audio and Video Support

- Lossless audio formats Dolby True HD and DTS-HD Master Audio decoders
- HDMI (ver. 1.3a supporting Deep Colour 30/36-bit, "x.v.Color", High-Bit-Rate Audio input)

### State-of-the-art Denon Solutions for Maximizing Content Quality

- Identical quality and power for all 7 channels, 100W x 7ch
- Discrete devices for ultimate performance in each block
- New 32-bit floating point high precision DSP processors
- Minimum signal path design
- Direct Mechanical Ground for stable drive
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer
- Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs
  - Faroudja DCDi Video Processing
  - Analog video to HDMI scaling up to 1080p
  - 1080p video pass through
- 4 HDMI inputs (Audio and Video)

### Digital Media Connectivity

- Network Audio/Photo Ready (optional ASD-3N/3W)
- iPod Audio/Photo and Video playback (optional ASD-11R/3N/3W)

### Multi-Zone Capability

- Power amplifier assigns for zone 2
- RS-232C control, Trigger output
- 2way remote ready (optional: DENON RC-7000CI/RC-7001RCI)

### Ease-of-Use

- Dynamic Volume and Dynamic EQ
- Mult EQ Auto setup and Room EQ
- 2-line fluorescent display on front panel
- Three Quick Select Buttons
- Auto setup, auto surround, auto signal detection
- Auto Surround Back Channels on for auto-detection of supporting sources
- Auto Surround mode
- Audio Delay function (max. 6 frames or 200 msec)
- Night Mode for neighbor friendly listening
- Muting level settings (Full/-40dB/-20dB)
- Audio Level Memory, capable of correcting different signal levels for each input device
- Volume Level Limiter, for setting maximum volume levels
- Power-ON Volume Level Memory
- Variable subwoofer crossover switching



# AVR-1909

AV Surround Receiver

- Premium Silver
- Black



## The Latest HD Audio and Video Support

- Lossless audio formats Dolby True HD and DTS-HD Master Audio decoders
- HDMI (ver. 1.3a supporting Deep Colour 30/36-bit, "x.v.Color", High-Bit-Rate Audio input)

## State-of-the-art Denon Solutions for Maximizing Content Quality

- Identical quality and power for all 7 channels, 90W x 7ch
  - Discrete devices for ultimate performance in each block
  - New 32-bit floating point high precision DSP processors
  - Minimum signal path design
  - Direct Mechanical Ground for stable drive
  - Stable power supply for high-quality sound and picture playback
  - Compressed Audio Restorer
  - Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs
    - Faroudja DCDi Video Processing
    - Analog video to HDMI scaling up to 1080p
    - 1080p video pass through
  - 3 HDMI inputs (Audio and Video)
- Digital Media Connectivity
- Network Audio/Photo Ready (optional ASD-3N/3W)
  - iPod Audio/Photo and Video playback (optional ASD-11R/3N/3W)

## Multi-Zone Capability

- Power amplifier assigns for zone 2
- 2way remote ready (optional: DENON RC-7000CI/RC-7001RCI)

## Ease-of-Use

- Dynamic Volume and Dynamic EQ
- Mult EQ Auto setup and Room EQ
- 2-line fluorescent display on front panel
- Three Quick Select Buttons
- Auto setup, auto surround, auto signal detection
- Auto Surround Back Channels on for auto-detection of supporting sources
- Auto Surround mode

- Audio Delay function (max. 6 frames or 200 msec)
- Night Mode for neighbor friendly listening
- Muting level settings (Full/-40dB/-20dB)
- Audio Level Memory, capable of correcting different signal levels for each input device
- Volume Level Limiter, for setting maximum volume levels
- Power-ON Volume Level Memory
- Variable subwoofer crossover switching



# AVR-1709

AV Surround Receiver

- Premium Silver
- Black



## State-of-the-art Denon Solutions for Maximizing Content Quality

- Identical quality and power for all 7 channels, 80W x 7ch
- Discrete devices for ultimate performance in each block
- New 32-bit floating point high precision DSP processors
- Minimum signal path design
- Direct Mechanical Ground for stable drive
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer
- Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs
- Video Conversion Function
- 3 HDMI inputs
- HDMI (ver. 1.3a supporting Deep Colour (30/36-bit), "x.v.Color")
- 1080p video pass through

## Digital Media Connectivity

- Network Audio/Photo Ready (optional ASD-3N/3W)
- iPod Audio/Photo and Video playback (optional ASD-11R/3N/3W)

## Multi-Zone Capability

- Power amplifier assigns for zone 2

## Ease-of-Use

- Dynamic Volume and Dynamic EQ
- Mult EQ Auto setup and Room EQ
- Three Quick Select Buttons
- Auto setup, auto surround, auto signal detection
- Auto Surround Back Channels on for auto-detection of supporting sources
- Auto Surround mode
- Audio Delay function (max. 6 frames or 200 msec)
- Night Mode for neighbor friendly listening

- Muting level settings (Full/-40dB/-20dB)
- Audio Level Memory, capable of correcting different signal levels for each input device
- Volume Level Limiter, for setting maximum volume levels
- Power-ON Volume Level Memory
- Variable subwoofer crossover switching



# AVR-1509

AV Surround Receiver

- Premium Silver
- Black



## State-of-the-art Denon Solutions for Maximizing Content Quality

- Identical quality and power for all 5 channels, 75W x 5ch
- Discrete devices for ultimate performance in each block
- New 32-bit floating point high precision DSP processors
- Minimum signal path design
- Direct Mechanical Ground for stable drive
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer
- Denon's High Picture Quality Circuitry, to enhance enjoyment of existing DVDs
- 2 HDMI inputs
- HDMI (ver. 1.3a supporting Deep Colour (30/36-bit), "x.v.Color")
- 1080p video pass through

## Digital Media Connectivity

- Network Audio/Photo Ready (optional ASD-3N/3W)
- iPod Audio/Photo and Video playback (optional ASD-11R/3N/3W)

## Ease-of-Use

- Dynamic Volume and Dynamic EQ
- Mult EQ Auto setup and Room EQ
- Three Quick Select Buttons
- Auto setup, auto surround, auto signal detection
- Auto Surround Back Channels on for auto-detection of supporting sources
- Auto Surround mode
- Audio Delay function (max. 6 frames or 200 msec)
- Night Mode for neighbor friendly listening
- Muting level settings (Full/-40dB/-20dB)

- Audio Level Memory, capable of correcting different signal levels for each input device
- Volume Level Limiter, for setting maximum volume levels
- Power-ON Volume Level Memory
- Variable subwoofer crossover switching



# RC-7000CI

RF/IR Remote Controller

The RC-7000CI is not only a programmable remote controller that can operate multiple A/V devices. It also features advanced functionality that lets anyone easily customise device settings, rename source names or perform other operations via a PC. In addition, connecting an RC-7001RCI RF/IR Remote Receiver<sup>(1)</sup> to a Denon A/V Receiver or other device<sup>(2)</sup> makes 2-way communication possible, allowing the user to select music (on a PC or HDD) from a list displayed on the screen of the remote controller. And with the wireless RF feature, it is possible to operate devices in multiple rooms.

- Pre-programmed IR Remote Control
- PC programmable for total customisation
- 2-way communication for media browsing capability\*
- Wireless RF multi-room control\*
- Built-in USB connector
- Web-updateable IR codes via USB



# RC-7001RCI

RF/IR Remote Receiver

Connecting an RC-7000CI RF/IR Remote Receiver (sold separately) to a Denon A/V Receiver or other device<sup>(2)</sup> makes 2-way communication possible, allowing the user to select music (on a PC or hard disk drive) from a list displayed on the screen of the remote controller. And with the wireless RF feature, it is possible to operate devices in multiple rooms.

- RF/IR Base Station - No need for line-of-sight IR control
- Enables 2-way communication with RC-7000CI and select Denon products
- RF and IR Addressable
- Multi-room operation is possible by adding the RC-7000CI or RC-7001RCI.
- The addition of the RC-7001RCI can extend the distance of RF communication<sup>(3)</sup>.



<sup>(1)</sup> With optional RC-7001RCI Base Station

<sup>(2)</sup> The Denon product must support 2-way communication.

<sup>(3)</sup> A maximum of 90 meters is possible without obstacles such as walls. Up to 3 RC-7000RCI units can be used.

	AVR-4308A	AVR-3808A	AVR-2809
<b>Decoder</b>			
THX SURROUND EX			
DOLBY	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIX	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIX	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIX
DTS	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6
DTS 96/24	•	•	•
HDCCD	•	•	•
<b>Processor &amp; converter</b>			
32-bit floating point DSP	High grade x2	High grade x2	High grade x2
192kHz/24bit D/A Converter for all ch	•	•	•
<b>Circuit &amp; construction</b>			
DDSC-Digital	•	•	•
AL24 Processing	Advanced	Plus	Plus
Pure direct	•	•	•
Variable gain volume control	•	•	•
<b>Amplifier</b>			
Amplifier channels	7	7	7
8ohm rated power output	140W	130W	115W
6ohm rated power output	170W	160W	150W
Full discrete all ch equal power amplifier	•	•	•
Wide range frequency	•	•	•
Surround Back ch amplifier assign	Front SP Bi-amp/ Multizone	Front SP Bi-amp/ Multizone	Front SP Bi-amp/ Multizone
<b>Video input terminals</b>			
HDMI	4 (with up to 7.1 PCM Audio)	4 (with up to 7.1 PCM Audio)	4 (with up to 7.1 PCM Audio)
Component video	3	3	3
S-Video (incl. front panel)	7	7	7
<b>Video output terminals</b>			
HDMI (*1)(*2)	2	1	1
Component Video	2+Zone2	2	1
S-Video	3	3	3
<b>Audio input terminals</b>			
EXT. IN	8ch x1	8ch x1	8ch x1
Digital (Coaxial)	3	3	3
Digital (Optical) (incl. front panel)	4	4	3
Analog	2+phono	2+phono	1+phono
DENON Link	1	1	
<b>Audio output terminals</b>			
Digital (Coaxial)			
Digital (Optical)	2	2	1
Pre Out	7.1ch/Zone2/Zone3	7.1ch/Zone2/Zone3	7.1ch/Zone2/Zone3
<b>Audio/Video Inputs (incl. front panel)</b>			
	7	7	7
<b>Other connections</b>			
RS-232C	•	•	•
Wi-Fi	•	•	•
Ethernet	•	•	•
Internet radio/ Audio streaming	•	•	•
Web control	•	•	•
iPod	• (*3)	• (*3)	• (*3)
USB	2 (Selectable)	2 (Selectable)	• (*3)
<b>Set up &amp; operation</b>			
Auto setup with microphone	•	•	•
Room EQ	• (Audyssey MultEQ XT)	• (Audyssey MultEQ XT)	• (Audyssey MultEQ XT)
Dynamic EQ	• (Audyssey Dynamic EQ)	• (Audyssey Dynamic EQ)	• (Audyssey Dynamic EQ)
Dynamic Volume	• (Audyssey Dynamic Volume)	• (Audyssey Dynamic Volume)	• (Audyssey Dynamic Volume)
GUI	•	•	•
On screen display	• (Zone2)	• (Zone2)	•
Remote	EL back light	EL back light	EL back light
Remote for Zone	•	•	•
Personal memory plus	•	•	•
3 Quick Select buttons	•	•	•
<b>Others</b>			
Audio delay	•	•	•
Variable subwoofer crossover switching	40/60/80/90/100/ 110/120/150/200/250Hz	40/60/80/90/100/ 110/120/150/200/250Hz	40/60/80/90/100/ 110/120/150/200/250Hz
Component video switching	•	•	•
S-Video switching	•	•	•
Video up/down conversion	Composite <-> S-video <-> Component -> HDMI	Composite <-> S-video <-> Component -> HDMI	Composite <-> S-video <-> Component -> HDMI
Component video band width	100MHz	100MHz	100MHz
Cinema EQ	•	•	•
Night mode	•	•	•
ALL ch binding post SP terminal	•	•	•
Surround SP A/B	•	•	•
Front SP A/B	•	•	•
Tuner	• (FM/AM)	• (FM/AM)	• (FM/AM)
RDS (radio data system)	•	•	•
Radio Text	•	•	•
Auto surround mode	•	•	•
Multi channel stereo mode	•	•	•
<b>HDMI</b>			
	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,

	AVR-2309	AVR-1909	AVR-1709	AVR-1509	AVR-1306 (for DHT-1366P)
<b>Decoder</b>					
THX SURROUND EX					
DOLBY	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIX	TrueHD Digital Plus Digital Digital EX Pro Logic II/ IIX	Digital Digital EX Pro Logic II/ IIX	Digital Digital EX Pro Logic II	Digital (Pro Logic II)
DTS	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6	HD High Resolution Audio HD Master Audio ES Discrete6.1 ES Matrix6.1 Neo:6	ES Discrete6.1 ES Matrix6.1 Neo:6	ES Discrete6.1 ES Matrix6.1 Neo:6	(Neo:6)
DTS 96/24	•	•	•	•	•
HDCCD	•	•	•	•	•
<b>Processor &amp; converter</b>					
32-bit floating point DSP	x1	x1	x1	x1	x1
192kHz/24bit D/A Converter for all ch	•	•	•	•	•
<b>Circuit &amp; construction</b>					
DDSC-Digital					
AL24 Processing					
Pure direct	•	•			
Variable gain volume control					
<b>Amplifier</b>					
Amplifier channels	7	7	7	5	5
8ohm rated power output	100W	90W	80W	75W	75W
6ohm rated power output	135W	120W	115W	110W	110W
Full discrete all ch equal power amplifier	•	•	•	•	•
Wide range frequency	•	•	•	•	•
Surround Back ch amplifier assign	Front SP Bi-amp Multizone	Front SP Bi-amp Multizone	Front SP Bi-amp Multizone	Front SP Bi-amp Multizone	
<b>Video input terminals</b>					
HDMI	4 (with up to 7.1 PCM Audio)	3 (with up to 7.1 PCM Audio)	3 (with up to 7.1 PCM Audio)	2	
Component video	3	3	3	3	
S-Video (incl. front panel)	5	3	3	3	
<b>Video output terminals</b>					
HDMI (*1)(*2)	1	1	1	1	
Component Video	1	1	1	1	
S-Video	2	2	2	2	
<b>Audio input terminals</b>					
EXT. IN	8ch x1	8ch x1	8ch x1	6ch x1	6ch x1
Digital (Coaxial)	2	2	2	2	2
Digital (Optical) (incl. front panel)	3	2	2	2	2
Analog	2+phono	3	3	3	3
DENON Link					
<b>Audio output terminals</b>					
Digital (Coaxial)					
Digital (Optical)					
Pre Out	7.1ch/Zone2	7.1ch/Zone2	Subwoofer/Zone2	Subwoofer	Subwoofer
<b>Audio/Video Inputs (incl. front panel)</b>					
	5	4	4	4	4
<b>Other connections</b>					
RS-232C	•				
iPod	• (*3)	• (*3)	• (*3)	• (*3)	
<b>Set up &amp; operation</b>					
Auto setup with microphone	•	•	•	•	•
Room EQ	•	•	•	•	•
Dynamic EQ	• (Audyssey Dynamic EQ)	• (Audyssey Dynamic EQ)	• (Audyssey Dynamic EQ)	• (Audyssey Dynamic EQ)	• (Audyssey Dynamic EQ)
Dynamic Volume	• (Audyssey Dynamic Volume)	• (Audyssey Dynamic Volume)	• (Audyssey Dynamic Volume)	• (Audyssey Dynamic Volume)	• (Audyssey Dynamic Volume)
GUI	•	•	•	•	•
On screen display	•	•	•	•	•
Remote	Simple remote w/GLO-key	Simple remote w/GLO-key	Simple remote w/GLO-key	Simple remote w/GLO-key	GLO-key
Personal memory plus	•	•	•	•	•
3 Quick Select buttons	•	•	•	•	•
<b>Others</b>					
Audio delay	•	•	•	•	•
Variable subwoofer crossover switching	40/60/80/90/100/ 110/120/150/200/250Hz	40/60/80/90/100/ 110/120/150/200/250Hz	40/60/80/90/100/ 110/120/150/200/250Hz	40/60/80/90/100/ 110/120/150/200/250Hz	60/80/100/120/13/ 150/180/200Hz
Component video switching	•	•	•	•	•
S-Video switching	•	•	•	•	•
Video up/down conversion	Composite <-> S-video <-> Component -> HDMI	Composite <-> S-video <-> Component -> HDMI	Composite -> S-video -> Component Composite <-> S-video		
Component video band width	60MHz	60MHz	60MHz	30MHz	
Cinema EQ	•	•	•	•	•
Night mode	•	•	•	•	•
ALL ch binding post SP terminal	•	•	•	•	•
Surround SP A/B	•	•	•	•	•
Front SP A/B	•	•	•	•	•
Tuner	• (FM/AM)	• (FM/AM)	• (FM/AM)	• (FM/AM)	• (FM/AM)
RDS (radio data system)	•	•	•	•	•
Radio Text	•	•	•	•	•
Auto surround mode	•	•	•	•	•
Multi channel stereo mode	•	•	•	•	•
<b>HDMI</b>					
	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync, -High Bit-rate Audio,	version 1.3a -Deep Color, -x.v.Color*, -Auto Lipsync,	version 1.3a -Deep Color, -x.v.Color*,	

(\*1) Version 1.3a compliant. HDMI audio output capacity is dependent on the monitor being used.  
(\*2) HDMI and DVI 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.  
(\*3) Requires optional control dock for iPod, ASD product family.



## DHT-FS3

Home Theatre System



### Home Theatre Sound Quality

- Surround sound with dynamic ambience is reproduced with just a front speaker unit and a subwoofer unit.
- X-SPACE SURROUND masterfully reproduces the surround sound and expands the listening area. The cabinet of the front unit contains 6 speakers. X-SPACE SURROUND is technology that uses those speakers to generate surround algorithms. The sound waves released from the speakers irradiate throughout the room, so that listeners hear the sound from the front left and right, the centre, and the rear left and right. Since X-SPACE SURROUND sends the sound waves out over a wide area, listeners can enjoy surround sound at any location in the room.
- Comes with a subwoofer that reproduces deep, dynamic bass sounds.
- Supports all audio formats (Dolby Digital, DTS, Dolby Pro Logic II).
- Includes Dolby Headphone so that you can even enjoy surround entertainment late at night through your headphones.



### Easy Setup, Easy Connection, Easy Operation

- No need for complicated settings.
- Slim design enables easy placement in front of the TV monitor (\*1). (Wall mounting is also possible with supplied accessories.)
- Includes feet that can be used to adjust the height of the front speaker unit (25mm or 35mm).
- Designed to match flat-panel TV monitors of 30 inches or larger.
- Subwoofer features one-touch connection.
- Includes simple preset remote controller for performing basic operations such as changing TV channels or switching inputs.
- Convenient Auto Power Standby / On function

\*1) Placement may not be possible with some TV models. Please check the dimensions of your TV and TV stand.

### Connectivity & Expandability

- Supports the Denon Control Dock for iPod
- Includes a Quick Setup Guide that makes connection and operation very easy.

## DHT-FS5

Home Theatre System



### Home Theater Sound Quality

- Home Theatre Surround Sound with a single unit  
The DHT-FS5 is a home theatre system that lets you enjoy exciting 5.1-channel surround sound with just a compact, single unit.
- X-SPACE SURROUND masterfully reproduces the surround sound and expands the listening area  
The cabinet of the front unit contains 6 full-range speakers. X-SPACE SURROUND is technology that uses those speakers to generate surround algorithms. The sound waves released from the speakers irradiate throughout the room, so that listeners hear the sound from the front left and right, the centre, and the rear left and right. Since X-SPACE SURROUND sends the sound waves out over a wide area, listeners can enjoy surround sound at any location in the room.
- Bass reflex, to produce a deep, robust bass sound from a compact unit  
A duct inside the DHT-FS5's body ensures that the phases of sound from both the rear and front of the speakers are irradiated into the room with perfect alignment. This is why the bass that comes from the compact DHT-FS5 sounds so clean and deep.
- Supports all audio formats (Dolby Digital, DTS, Dolby Pro Logic II)

### Easy Set-up, Easy Connection, Easy Operation

- Easy set-up with no difficult settings required
- Compact design fits easily into a TV rack
- Includes feet that can be adjusted the height of the speaker unit fits the size of the TV stand
- Wall mount brackets are included
- Choose the colour that best suits your furniture, TV rack, or interior (Black / Silver)
- Connect up to 4 input devices
- Super Dynamic Bass (S.D.B.), for an even stronger deep bass sound
- Includes simple remote controller

## 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

## AK-HM500

(5 metres length)

## AK-HM300

(3 metres length)

## AK-HM100

(1 metre length)

HDMI cable



**HDMI**  
HIGH DEFINITION MULTIMEDIA INTERFACE

- 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-11R

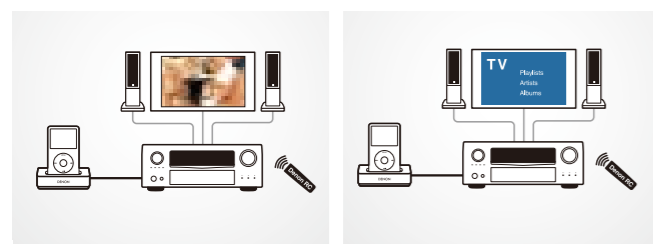
Control Dock for iPod



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



\*iPod not included  
\*Screen image simulated

## ASD-3W

(wireless and wired)

## ASD-3N

(wired)

Control Dock for iPod



- White
- Black



ASD-3N (White)



ASD-3W (Black)

\*iPod not included

### Things you can do with a Denon ASD-3W/N

When you connect an ASD-3W/N to your amp, not only does the music from your iPod sound better, you can also use the ASD-3W to wirelessly connect - or the ASD-3N to wire-connect - the amp to a PC via a router or other network device to play music from your PC on your home audio system.

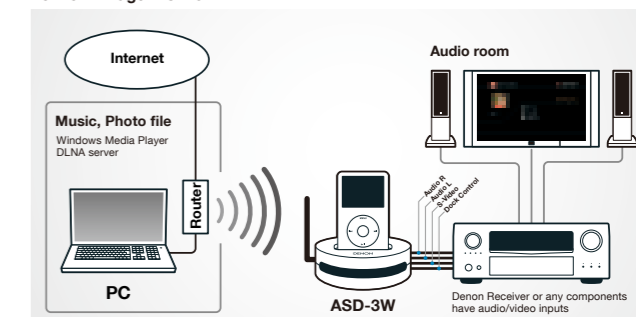
- Playback Music/Photo Files from PC or Music Server  
-ASD-3W/3N can access Windows Media Player (\*1) to get music, photos and play lists come from your PC.  
-ASD-3W features Wi-Fi connectivity supporting IEEE 802.11b and g. [Support files] WMA, AAC (\*2), MP3, WAV, FLAC for audio and JPEG for photos
- Internet Radio  
You can access a list of over 7,000 radio stations via "vTuner" service, and enjoy your favourite music channels without a PC.
- GUI (Graphical User Interface) operation such as changing TV channels or switching inputs.  
To allow for easier browsing and playback of your files, the ASD-3W/N provides 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)
- Command and Control of your iPod  
ASD-3W/N has capability of control your iPod via remote and playback music, photo slide shows and videos while also recharging your iPod.
- Remote controller for easy control of iPod and network functions included
- Supported iPods  
The ASD-3W/N supports any iPod equipped with a Dock connector (except the 3rd generation). However, the 4th generation iPod (with Dock Connector) requires the Apple iPod Universal Dock Adapter 3-Pack that fits your iPod model (separately available from Apple Inc.) in order to be connected to the ASD-3W/3N.

\*1 Windows Media Player version 11 or latest version is required.  
\*2 Non-DRM files only

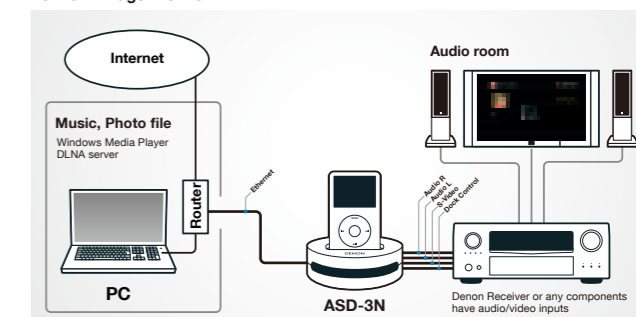
Please visit <http://blog.denon.com/asd-3/> for more details on compliant models and connection procedures.



### Network image: ASD-3W



### Network image: ASD-3N



# DVD-1940

DVD/ Super Audio CD Player



- Premium Silver
- Dark Silver
- Black



- HDMI Interface with multi channel audio (\*1) (480p/720p/1080i/1080p Scaling)
- Progressive Scan featuring DCDi by Faroudja
- 12 bit, 216 MHz high resolution video D/A converter
- HDMI/Component (Interlace) parallel video outputs
- 2 MB buffer memory
- Picture Adjustment function (Brightness/Contrast/Colour/ Gamma Correction/Sharpness)
- Picture Zooming (x2 or x4)
- DivX Ultra
  - \*Official DivX @ Ultra Certified product
  - \*Plays all versions of DivX @ video (including DivX @ 6i) with enhanced playback of DivX @ media files and the DivX @ Media Format
- DVD-Audio/Video, Super Audio CD Universal Player
- DVD-R/RW Playback
- CD-R/RW and DVD-R/RW (MP3 / Windows Media Audio 9 / JPEG / Kodak Picture CD/DivX) Playback

- 24-bit, 192-kHz High Resolution Audio D/A Converters
- Bass Management for analog/HDMI audio output
- A wealth of playback functions
- Aluminum front panel
- Supports PAL and NTSC (PAL/NTSC conversion)
- AC Inlet
- Aspect Ratio Function for Correct Image Displays
- OSD GUI
- 24 bit/96kHz PCM Digital Output Capability
- PCM, Dolby Digital and DTS Digital Surround Output
- Auto Power OFF

\*1) Version 1.1 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.

# DVD-1740

DVD Player



- Premium Silver
- Dark Silver
- Black



- 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
  - \*Official DivX @ Ultra Certified product
  - \*Plays all versions of DivX @ video (including DivX @ 6i) with enhanced playback of DivX @ media files and the DivX @ Media Format
- 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.

# SYS-905HT

5.0 ch Speaker System



## Front speaker / SC-T905H

- 3-way 4 speakers
- 15 cm woofer x2
- 2.5 cm tweeter x1
- 2 cm tweeter x1
- Max. Input: 150W
- Magnetically shielded
- 300 (W) x 1,060 (H) x 325 (D) mm
- 14.4 kg/unit

## Center speaker / SC-C905H

- 2-way 3 speakers
- 12 cm woofer x2
- 2.5 cm tweeter x1
- Max. input: 100W
- Magnetically shielded
- 500 (W) x 150 (H) x 198 (D) mm
- 5.5 kg/unit

## Surround speaker / SC-A905H

- 2-way 2 speakers
- 12 cm woofer x1
- 2 cm tweeter x1
- Max. input: 100W
- Magnetically shielded
- 150 (W) x 260 (H) x 220 (D) mm
- 2.8 kg/unit

# DSW-65

Active Subwoofer



- 25 cm woofer x1
- Amplifier output: 100 W
- LF Direct mode
- Magnetically shielded
- 310 (W) x 351 (H) x 436 (D) mm
- 12.0 kg

# DHT-1356XP

5.1ch Home Theatre in a Box

A/V surround receiver AVR-1306 (See chart on page 25)  
5.1ch speaker system SYS-56HT



# SYS-57HT

5.1ch Speaker System



	DVD-1940	DVD-1740
<b>Decoder</b>		
DOLBY Digital	•	• (2ch)
DTS	•	
<b>Processor &amp; Converter</b>		
Video DAC	216MHz/12bit	108MHz/12bit
Audio DAC	192MHz/24bit	192MHz/24bit
Advanced AL24 processing		
AL24 processing		
Progressive scan circuit	DCDi	
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	• / • / •	• / - / -
Time alignment for DVD-Video /DVD-Audio/ Super Audio CD	• / • / •	• / - / -
<b>Video output terminals</b>		
Composite	1	1
S-video	1	1
Component	1	1
HDMI (*2)(*3)	1	1
<b>Audio output terminals</b>		
Digital (Coaxial / Optical)	1/1	1/1
Analog	2ch x1, 5.1ch x1	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	Ultra

	SYS-57HT	SYS-56HT (for DHT-1356XP)
<b>Satellite Speakers</b>		
Type & Speaker size	2-way 2 speakers	5.7cm full-range x2
Magnetically shielded	•	•
Dimensions (WxHxD)	130 x 180 x 171 mm	84 x 189 x 110 mm
Weight	1.2 kg	1.2 kg/unit
<b>Centre Speaker</b>		
Type & Speaker size	2-way 3 speakers	5.7cm full-range x2
Magnetically shielded	•	•
Dimensions (WxHxD)	290 x 130 x 192 mm	263 x 84 x 110 mm
Weight	1.8 kg	1.4 kg
<b>Subwoofer</b>		
Speaker size	25cm woofer	16cm cone woofer
Dimensions (WxHxD)	310 x 351 x 436 mm	210 x 353 x 379 mm
Power output	100W	50W (6ohms)
		100W (Dynamic power)
Weight	12.0 kg	9.2 kg

(\*1) Discs that have been poorly finalised following recording may be only partially playable or not playable at all.  
(\*2) Version 1.1 compliant. HDMI audio output capacity is dependent on the monitor being used. (DVD-1940)  
(\*3) HDMI and DVI 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.

**Creates a realistic world of music that transcends the imagination, from robust power to delicate details.**

All components, from Super Audio CD players to traditional CD players, integrated amps and record players, reproduce the realism of a concert hall complete with reverberations and the delicate nuances of the music.



## PMA-SA1

Integrated amplifier

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

- 100 W x 2 (4 ohms)
- UHC-MOS, the ideal large-current amplifier
- Cascode bootstrap connection, to bring out the maximum potential of UHC-MOS
- Simple amplifier stage configuration
- All-stage balanced amp configuration, to protect clarity of musical signals
- Inverted  $\Sigma$  Balance Circuit, realising a balanced amp for high sound quality
- High-grade volume control for superior sound quality
- Sand-cast aluminum transformer case and capacitor holder
- Fully independent phono equaliser amplifiers
- Precision signal ground circuit, to preserve signal purity
- Wide-range play capability for DVD-Audio or Super Audio CD
- Chassis construction with 6 independent blocks
- "Simple & straight" circuit design

○ Premium Silver



## DCD-SA1

CD/Super Audio CD player

  ADVANCED AL24 PROCESSING

- 'Advanced AL24 Processing,' the latest technology for high sound quality
- Original drive mechanism, the heart of Denon's digital disc playback technology
- High-accuracy master clock oscillator, to suppress jitter and noise
- Fully balanced output using 4-DAC configuration
- Triple floating power supply, to suppress resonance, to prevent noise and to ensure a clean, stable supply of power.
- Pure direct mode
- Balanced and unbalanced output
- Optical and coaxial digital input/output
- Thoroughly vibration-resistant construction
  - 4-layer bottom plate construction
  - Cast iron insulator
  - Hybrid construction for all panels
  - Vibration-resistant PC board design

○ Premium Silver



## PMA-2000AE ○ Premium Silver ● Black

Integrated amplifier

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

## DCD-2000AE ○ Premium Silver ● Black

CD/Super Audio CD player



PMA-2000AE

- 160 W x 2 (4 ohms)
- UHC-MOS FET
- UHC-MOS single push-pull circuit
- LC (Leakage Cancelling) mounted twin transformers
- Powerful high-current dynamic power circuit
- Newly-developed large-capacity block capacitor
- Highly rigid, separated chassis
- Wide-range play capability for DVD-Audio or Super Audio CD
- Power amp direct Input
- PRE OUT terminals for future system expansion
- Precision mechanical ground construction, to thoroughly suppress vibration
- Precision signal ground circuit, to preserve signal purity
- Large, gold-plated speaker terminals
- High-performance MM & MC phono equaliser
- Convenient remote control for main functions
- High-grade input terminal for phono and CD



DCD-2000AE

- 'Advanced AL24 Processing,' the latest technology for high sound quality
- 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 analog power supplies using OFC wire coils to ensures a clean, stable supply of power
- Thoroughly vibration-resistant construction
  - 3-layer bottom plate construction
  - Cast aluminum trans base
  - Hybrid construction for all panels
- Pure direct mode
- Optical and coaxial digital output

## PMA-1500AE ○ Premium Silver ● Black

Integrated amplifier

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

## DCD-1500AE ○ Premium Silver ● Black

CD/Super Audio CD player



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 analog 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 analog power supplies
- Pure direct mode
- Optical and coaxial digital output

	PMA-SA1	PMA-2000AE	PMA-1500AE	PMA-700AE	PMA-500AE
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	7	6	6	6
Rec output	2	2	2	2	2
Pre Out		•	•	•	
Balanced input	•				
REC out select	•	•	•	•	
Source direct		•	•	•	•
Tone control		•	•	•	•
Power amp direct mode		•	•	•	•
Micro processor auto off		•	•	•	•
4ohm rated output	100W	160 W	140 W	85W	70 W

## PMA-700AE ○ Premium Silver ● Black

Integrated amplifier

## DCD-700AE ○ Premium Silver ● Black

CD player

AL24 Processing MP3 WMA

PMA-700AE

- 85 W x 2 (4 ohms)
- High Current (HC) single push-pull circuit to balance details and power
- High-speed, large-capacity power circuit
- Main transformer with separate power supplies for analog and digital circuits
- Wide-range play capability for DVD-Audio or Super Audio CD
- Source direct, for clean pure audio playback
- Microprocessor stop mode to further improve sound quality
- REC OUT selector for flexible enjoyment of music
- PRE OUT terminals for future system expansion
- Phono equaliser amp (MM), for connecting an analog record player



DCD-700AE

- AL24 Processing: Ideal analog waveform reproduction technology
- High-accuracy D/A converter
- Carefully designed construction to preserve audio signal purity
- Strictly selected parts for high sound quality
- Support for CD-R/CD-RW (MP3/WMA) playback
- Pitch control
- A wealth of additional playback functions
- Pure direct mode

## PMA-500AE ○ Premium Silver ● Black

Integrated amplifier

## DCD-500AE ○ Premium Silver ● Black

CD player



PMA-500AE

- 70 W x 2 (4 ohms)
- High Current (HC) single push-pull circuit to balance details and power
- High-speed, large-capacity power circuit
- Main transformer with separate power supplies for analog and digital circuits
- Wide-range play capability for DVD-Audio or Super Audio CD
- Source direct, for clean pure audio playback
- Microprocessor stop mode to further improve sound quality
- Phono equaliser amp (MM), for connecting an analog record player
- IR remote control can handle Denon CD players and tuners



DCD-500AE

- High-accuracy D/A converter
- DAC master clock design, to suppress jitter and noise
- Carefully designed construction to preserve audio signal purity
- CD-R/RW (audio) playback
- A wealth of additional playback functions
- 8-times oversampling digital filter

	DCD-SA1	DCD-2000AE	DCD-1500AE	DCD-700AE	DCD-500AE	DCD-CX3	DCM-500AE
Advanced AL 24 Processing	•	•					
AL 24 Processing			•	•			•
Number of DAC	4	2	2	2	2	2	2
SVH loader	•	•	•				
Dimmer	•	•	•	•	•	•	•
Pitch control				•			
Analog output	2 (Balanced/Unbalanced)	1	1	1	1	1	1
Digital output	2 (Coaxial/Optical)	2 (Coaxial/Optical)	2 (Coaxial/Optical)	1	1	2 (Coaxial/Optical)	1
Digital input	2 (Coaxial/Optical)						
Number of discs	1	1	1	1	1	1	5
Super Audio CD	•	•	•				
CD-R/RW playback (*)	•	•	•	•	•	•	•
MP3 / WMA decoder				•	•	•	•
Random	•	•	•	•	•	•	•
Repeat all	•	•	•	•	•	•	•
Repeat one	•	•	•	•	•	•	•
A/B repeat			•	•	•		•



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

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

- Premium Silver
- Black



- 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.



## DRA-500AE

AM-FM stereo receiver

- Premium Silver
- Black



- 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



## TU-1800DAB

DAB / AM-FM stereo tuner

- Premium Silver
- Black



- 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.



## TU-1500AE

AM-FM stereo tuner

- Premium Silver
- Black



- 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



## DCM-500AE

5-CD auto changer

- Premium Silver
- Black



- 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-700AE	DRA-700AEDAB	DRA-500AE	DRA-CX3
SLDC	•	•	•	•
Speaker	A/B	A/B	A/B	A
Analog inputs	5 + Phono (MM)	5 + Phono (MM)	5	5
Analog 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	•	•	•	•

	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

- Premium Silver
- Black

- 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

- Premium Silver
- Black

- Import tracks from analog records to USB memory without a PC.
- Includes PC software for editing tracks.
- High-precision diecast aluminium 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

- Dark Silver

- 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-103SA

Limited edition  
MC cartridge



## DL-110

High output  
MC cartridge



## DL-103

MC cartridge



## DL-160

High output  
MC cartridge



## DL-103R

MC cartridge



## DL-304

MC cartridge

This product is not necessarily sold in all regions.  
For details, please contact the authorised dealer noted at the back of this catalogue.

## AH-C751

Inner Ear Stereo Headphones



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



- Silver
- Black

## AH-C551

Inner Ear Stereo 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 poach
- Extension cable and hard shell carrying case



- Silver
- Black

## 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, to achieve ideal acoustic characteristics
- 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
- ø6.3mm aluminum 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
- Aluminum Connector Cover
- Gold plated connector
- L/R equal cable connection
- Light-weight magnesium frame
- Cloth mesh cable jacket



## AH-C452

Inner Ear Stereo Headphones



- Ergonomic desing for a comfortable fit in the ear
- 0.7m 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



- White
- Silver
- Black

## AH-C351

Inner Ear Stereo Headphones



- Acoustic optimiser
- Gold plated connector
- 3 sizes of ear pads included
- Extension cable and carrying pouch



- White
- Black

## 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
- Aluminum Connector Cover
- Gold plated connector
- Light-weight magnesium frame
- Cloth mesh cable jacket



- Black

## AH-D1001

On-Ear Headphones

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



- Silver
- Black



## AH-C252

Inner Ear Stereo Headphones



- Rubber-coated housing prevents slipping and provides a supple texture
- 1.3m 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



- White
- Black

## AH-NC732

Noise Canceling Headphones

- Silver
- Black

- Active noise-canceling 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, to achieve ideal acoustic characteristics
- Large (ø40mm), 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 (0.7m, 1.5m)
- Aluminum Connector Cover
- Compact carrying case



## AH-D501

On-Ear Headphones

- Silver
- Black

- Acoustic optimiser  
The balance of the sound pressure in front and behind the diaphragm can be adjusted to achieve the optimum acoustic properties.
- Double headband for easy fitting and wearing
- Large (ø35 mm), powerful driver unit
- Aluminum 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

- Silver
- Black

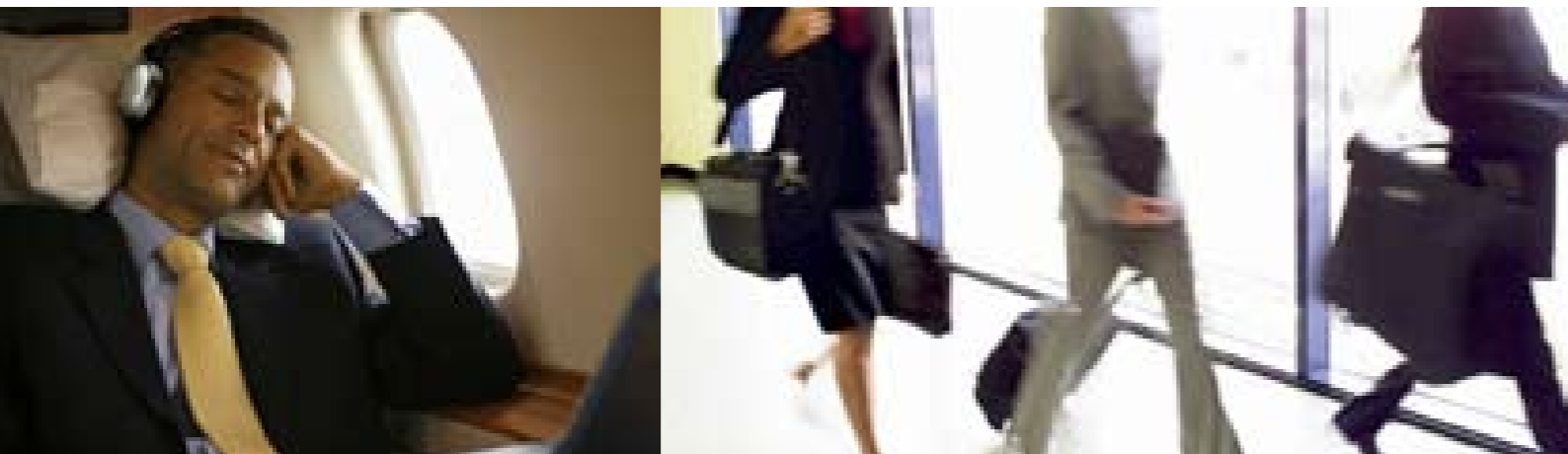
- Acoustic optimiser  
The balance of the sound pressure in front and behind the diaphragm can be adjusted to achieve the optimum acoustic properties.
- Double headband for easy fitting and wearing
- Large (ø35 mm), powerful driver unit
- Left and right cable length is equal for sound quality
- Housing reversal mechanism allowing one-eared monitoring

## AH-P372

Portable Headphones

- White
- Black

- Acoustic Optimiser, to achieve ideal acoustic characteristics
- 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



**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**

○ Premium Silver (with Sand-blast finish)

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**

○ Premium Silver (with Sand-blast finish)

Super Audio CD Player



- 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 analog 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**

○ Premium Silver (with Sand-blast finish)

Super Audio CD Receiver



- 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



**Better sound, each and every day**

Denon Mini components are true Hi-Fi despite their compact size. Designed with the same Hi-Fi philosophy of full-size components, our Mini systems bring you wonderful sound to brighten up your day, every day, anywhere you like, such as a kitchen, bedroom, or study as well as your lounge.



**F series**



**D-F102 / D-F102DAB**  
DRA-F102 / D-F102DAB  
DCD-F102  
SC-F102

D-F102DAB is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.



**D-F103HR / D-F103HRDAB**  
DRA-F102 / D-F102DAB  
CHR-F103  
SC-F103

D-F103HRDAB is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.

**DRA-F102**  
**DRA-F102DAB\***

○ Premium Silver

Receiver



- Supports wide dynamic range playback and high-quality sound, rivalling high-end amps
- Power circuit to support high sound quality playback
- Analog mini-jack input for connecting a portable player
- A wealth of input/output terminals
- 40-station FM/AM preset
- Versatile timer function
- Easy-to-operate multi-function remote unit for system-wide control
- DAB tuner (DRA-F102DAB)

\*D-F102DAB is not necessarily sold in all regions.  
Please contact a nearby Denon authorised dealer for details and availability.

**DCD-F102**

○ Premium Silver

CD player



- High-accuracy D/A converter
- 8x oversampling digital filter
- Plays CD-R /CD-RW (MP3/WMA)(\*1)
- Optical digital output terminals
- Wide variety of playback functions
- System-wide functions for easy operation

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

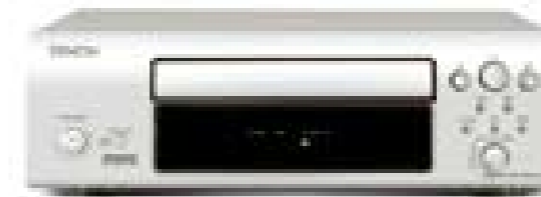
**DRR-F102** (Optional)

○ Premium Silver

Cassette deck



- Horizontal loading mechanism for stable tape travel
- Dolby Noise Reduction for high-quality sound recording and playback
- Useful functions such as Track Cueing and CD-SRS Recording
- Auto Reverse, to automatically play side B after side A and vice versa
- Auto Tape Selector (for Metal tapes only)
- Convenient functions when system is upgraded with other components in the F102 series



**CHR-F103**

○ Premium Silver

CD/HDD music system



- Equipped with a hard disk drive capable of holding approximately 10,000 WMA tracks recorded (Normal mode)
- Supports ripping in WMA and LPCM.
- Supports playback of MP3, WMA, AAC(.M4A) and LPCM tracks from hard disk drive
- Gracenote compliant  
(using built-in hard disk or Ethernet connection to obtain information on music tracks.)
- You can monitor the song while ripping.
- Search by 'Artists', 'Albums', 'Genres' and 'Tracks'
- Search by 'Recently played', 'Recently stored' and your 'Playlist'
- Includes dedicated editing/file management software (Denon Music Manager) for your PC
- Provides USB port for copying music tracks from a computer or backing up data to a computer.
- Provides Ethernet port supporting Internet Radio and WMC.
- Large FL display accommodates 6 or 3 lines of text.
- Equipped with high-performance DAC for high sound quality.
- Plays CD-R/CD-RW (MP3/WMA)(\*1)
- USB port also allows direct playback of music tracks recorded on a USB flash memory.

**SC-F102**

Speaker system

- European sound tuned speakers
- Large 14cm woofer units with D.D.L. (Denon Double Layer) cone
- Soft-dome tweeters
- Crossover network for uniform acoustic pressure and phase response
- Anti-magnetic design
- 182 (w) x 264 (H) x 233 (D) mm
- Woodgrain finished cabinet is also available



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

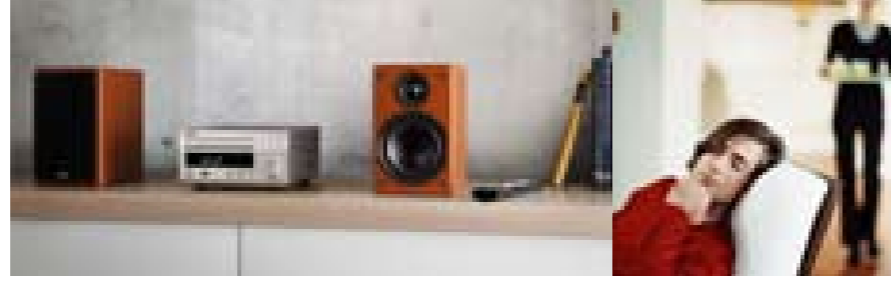
**SC-F103**

Speaker system

- European sound tuned speakers
- Large 14cm woofer units with D.D.L. (Denon Double Layer) cone
- Soft-dome tweeters
- Crossover network for uniform acoustic pressure and phase response
- Anti-magnetic design
- 182 (w) x 264 (H) x 233 (D) mm
- Gloss woodgrain finished cabinet



High-quality Micro Component System



# RCD-M37 / RCD-M37DAB

CD receiver

- Premium Silver
- Black



- 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 analog 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 Analog Stereo Inputs and Analog 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

## M series



**D-M37 / D-M37DAB**  
RCD-M37 (Premium silver)  
SC-M37 (Woodgrain finish)



**D-M37 / D-M37DAB**  
RCD-M37 (Premium silver)  
SC-M37 (Black)



**D-M37 / D-M37DAB**  
RCD-M37 (Black)  
SC-M37 (Black)



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

## SC-M37

Speaker System

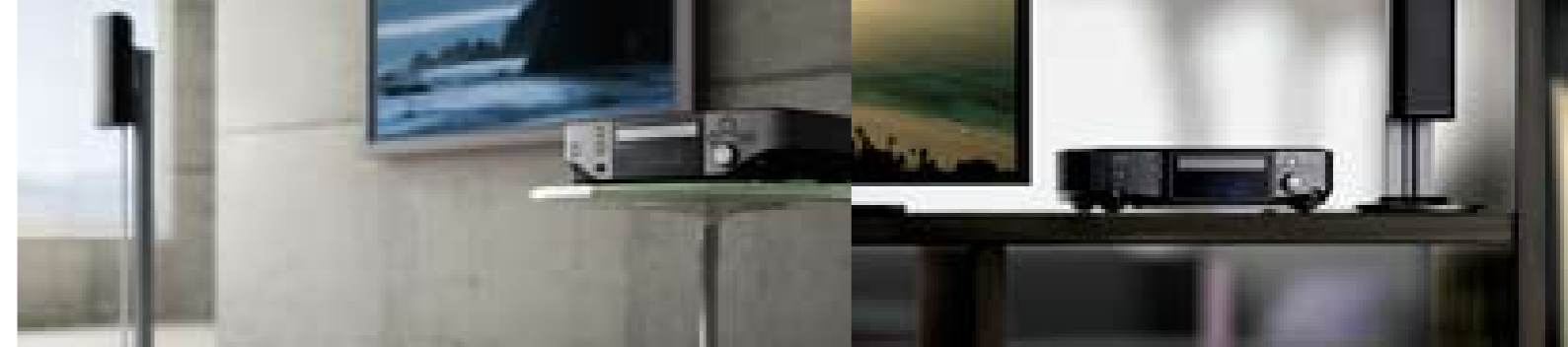
- Newly-developed speakers ... inheriting Denon's CX concepts and technology
  - New D.D.L. cone with ventilation hole
  - High definition tweeter with ventilation hole
  - Newly developed Crossover network
- 2-way 2 speakers
- 12 cm woofer unit with D.D.L. (Denon Double Layer) cone
- 2.5 cm Soft dome Tweeter



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

**S-Series**

Powerful sound and 1080p HD image reproduction.  
With S-302/S-102 Series, a simple and smart way to enjoy your home entertainment begins.



**S-302**

DVD Home Entertainment System



**S-102**

DVD Home Entertainment System



**Easy to get started**

- Enjoy your home theatre, experience the breathtaking images and dynamic surround sounds of movies like never before. All you need are three speakers to capture the full-scale dynamic sounds of movies and concerts. In general, surround sound reproduction at movie theatre is done through multiple speakers, and in the home through 5.1 channel speaker system. With S-302/S-102 all that is needed are two speakers and the slim subwoofer to enjoy the surround sounds of movie theatres easily. Even when you use your headphones the S-302/S-102 will create an intimate surround sound experience, without disturbing others.

**Enjoy different types of music in better sound-all on one system.**

- Listen to your CDs
- Enjoy your DVDs
- Listen to FM/AM radio
- Listen to your portable player  
The S-302/S-102 lets you connect your iPod, or other portable devices to the 'portable in' terminal. The S-302's USB terminal in front allows you to connect a USB player directly. To charge your iPod while in use and to enjoy control of your iPod, use one of the optional docking stations from Denon. (ASD-3N/ASD-3W/ASD-1R)
- Listen to your music files stored in your PC wirelessly (S-302)
- Listen to internet radio wirelessly (S-302)

**Smart Operation**

- The self-explanatory operation
- The remote controller follows your instincts. The included remote controller allows you to operate not only the S-302/S-102, TVs, cable TV tuners, and satellite broadcasting tuners.
- Family-friendly GUI (graphic user interface) Easy-to-follow GUI shown on your TV monitor will navigate you to the content you want without any confusion. (Multi-language: English, German, French, Italian, Spanish, Dutch, Swedish, Japanese)

**Smart Theatre**

- High definition reproduction
- High quality progressive scan
- The S-302/S-102 uses top caliber technology to reproduce the finest video images.
- Analogue to HDMI up conversion (S-302)
- i/p conversion and up scaling up to 1080p

**Smart Sound**

- Powerful and dynamic sound reproduction
- High quality sound reproduction from Denon The Denon original AL24 Processing technology found on our A/V receivers and DVD/CD players is built into the S-302/S-102, which allows more natural sound reproduction of digitalised music signals.
- Denon original high quality drive mechanism
- High quality sound tuned speakers

**Smart Network (S-302)**

- Network connectivity The Wi-Fi certified S-302 allows you to reach more content of your choice from internet radio to music files in your PC without being wired. Just browse and play from your favourite location of the system.
  - Music client function (AAC, MP3, WAV, WMA lossless9), FLAC
  - Plays photo libraries in PC
  - Plays internet radio

The optional ASD-3W when used together with the S-102 enables the S-102 to do the same network functionality of the S-302.



Optional ASD-3W (iPod not included)

**ASF-S05**

Shelf Speaker Stand for S-302/S-102

Max. Dimensions  
with S-302 speaker  
205 (W) x 508 (H) x 205 (D) mm  
with S-102 speaker  
205 (W) x 494.5 (H) x 205 (D) mm

Weight  
1.5 kg/unit (stand only)



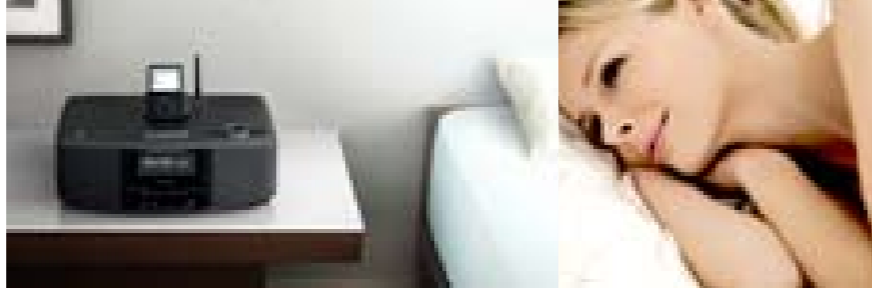
**ASF-S07**

Floor Speaker Stand for S-302/S-102

Max. Dimensions  
with S-302 speaker  
300 (W) x 1,164 (H) x 300 (D) mm  
with S-102 speaker  
300 (W) x 1,150.5 (H) x 300 (D) mm

Weight  
7.3 kg/unit (stand only)





## S-52 / S-52DAB\*

Wireless Network CD Music System

○ White (not available for S-52DAB)

● Dark Silver



### Easy to get started

With S-52/S-32, reaching out to your favourite music content is now as easy as turning in to your favourite radio station.

### Enjoy different types of music through out your home.

- Listen to your music files stored in your PC wirelessly
- Listen to internet radio wirelessly
- Listen to FM/AM radio
- Listen to your portable player
- Listen to your CDs (S-52/S-52DAB)

### Smart Operation

- The built-in dock for iPod on top
- Friendly high contrast graphic LCD
- Multi-task jog wheel on top
- Auto clock set & adjust via internet
- 'Alarm 1' and 'Alarm 2' functions  
e.g. You want to wake up with a music from your iPod at 6am (Alarm 1) and you don't want to miss your favourite radio show at 11:30am (Alarm 2)
- Simple remote featuring direct 'source' key section, play-back key section, and browsing section.

### Smart Sound

- Powerful and dynamic sound reproduction
- High quality sound reproduction from Denon  
The same serious engineering with passion and know-how is put in the electronics to reproduce the best quality in class.
- High quality sound tuned speakers

### Smart Network

- Network connectivity  
The Wi-Fi certified S-52/S-32 allows you to reach more content of your choice from internet radio to music files in your PC or Mac without being wired. Just browse and play.
  - Music client function (AAC, MP3, WAV, WMA), FLAC (Free Lossless Audio Codec)
  - Plays internet radio

S-52DAB is not necessarily sold in all regions. Please contact a nearby Denon authorised dealer for details and availability.



\*S-52DAB only.

Network

## S-32

Wireless Network Music System

● Dark Silver



\*iPod not included

## Specifications

### A/V surround amplifiers and receivers

	AVP-A1HDA	AVC-A1HDA	AVR-4308A	AVR-3808A	AVR-2809
<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	* THD figures are power amp stage values	* THD figures are power amp stage values	* THD figures are power amp stage values
Front (L + R)	-	150 W + 150 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W + 140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W + 130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	115 W + 115 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Centre (A)	-	150 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	115 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Surround (L + R) (A)	-	150 W + 150 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W + 140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W + 130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	115 W + 115 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Surround Back (L + R)	-	150 W + 150 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W + 140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W + 130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	115 W + 115 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
<b>Preamplifier section</b>					
Input sensitivity/ impedance	PHONO (MM): 2.5 mV/47 kohms CD, DVD, HDP, TV/CBL, SAT, VCR(iPod), DVR-1, DVR-2, EXT.INFL, FR, CL, SE, SL, SR, SBL, SBR), VAUX, TUNER: 200mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, HDP, TV/CBL, SAT, VCR(iPod), DVR-1, DVR-2, VAUX, EXT.INFL, FR, CL, CR, SW, SR, SBL, SBR), TUNER: 200mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, HDP, TV/CBL, SAT, VCR(iPod), DVR, EXT.INFL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, HDP, TV/CBL, SAT, VCR(iPod), DVR, EXT.INFL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, HDP, TV/CBL, SAT, VCR(iPod), DVR, EXT.INFL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms
<b>FM section</b>					
Tuning frequency range	-	-	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)
<b>AM section</b>					
Tuning frequency range	-	-	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz
Usable sensitivity	-	-	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	AC 230 V, 50 Hz
Power consumption			580 W	550 W	500 W
Dimensions (W x H x D)	434 x 217 x 500 mm	434 x 217 x 500 mm	434 x 195 x 455 mm	434 x 171 x 420 mm	434 x 171 x 414 mm
Weight			18.9 kg	17.8 kg	12.8 kg

### A/V surround receivers

	AVR-2309	AVR-1909	AVR-1709	AVR-1509
<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	* THD figures are power amp stage values	* THD figures are power amp stage values	* THD figures are power amp stage values
Front (L + R)	100 W + 100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Centre (A)	100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Surround (L + R) (A)	100 W + 100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Surround Back (L + R)	100 W + 100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
<b>Preamplifier section</b>				
Input sensitivity/ impedance	PHONO (MM): 2.5 mV/47 kohms DVD, HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, EXT.INFL, FR, C, SW, EXT.INFL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	DVD, HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, EXT.INFL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, AUX, EXT.INFL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, AUX, EXT.INFL, FR, C, SW), VAUX: 200mV/47 kohms
<b>FM section</b>				
Tuning frequency range	87.5 - 108.0MHz	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)	1.0 µV (11.2 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	450 W	445 W	420 W	360 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 377 mm
Weight	12.3 kg	11.4 kg	11.2 kg	10.7 kg

### Power amplifier

	POA-A1HD
Rated output	150 W (8 ohms) x 10ch 300 W (4 ohms) x 10ch 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

Blu-ray disc player/transport	DVD-3800BD	DVD-1800BD	DVD-2500BT
<b>Video section</b>			
Signal system			
Video output (75 ohms)	1.0 Vp-p	1.0 Vp-p	
S-video output:			
Y Output (75 ohms)	1.0 Vp-p	1.0 Vp-p	
C Output (75 ohms)	0.3 Vp-p	0.3 Vp-p	
RGB video output			
R Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	
G Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	
B Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	
Component output			
Y Output Level	1.0 Vp-p	1.0 Vp-p	
Pb (Cb) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	
Pr (Cr) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	
<b>Audio section</b>			
Audio signal output	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)	
2-ch Mixed Output	1 system	1 system	
5.1-ch Discrete Output	1 system		
<b>DVD linear audio</b>			
Frequency Response	4 Hz - 22 kHz / 48 kHz sampling 4 Hz - 44 kHz / 96 kHz sampling 4 Hz - 88 kHz / 192 kHz sampling	4 Hz - 22 kHz / 48 kHz sampling 4 Hz - 44 kHz / 96 kHz sampling 4 Hz - 88 kHz / 192 kHz sampling	
Dynamic Range (DVD)	110 dB		
<b>Power supply</b>	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
<b>Power consumption</b>			30 W
<b>Dimensions (W x H x D)</b>	434 x 139 x 399 mm	435 x 80 x 348 mm	434 x 139 x 391 mm
<b>Weight</b>	10.3 kg		9.2 kg

DVD players	DVD-1940	DVD-1740
<b>Video section</b>		
Signal system	PAL / NTSC	PAL / NTSC
Video output (75 ohms)	1.0 Vp-p	1.0 Vp-p
S-video output:		
Y Output (75 ohms)	1.0 Vp-p	1.0 Vp-p
C Output (75 ohms)	0.3 Vp-p	0.3 Vp-p
RGB video output		
R Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p
G Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p
B Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p
Component output		
Y Output Level	1.0 Vp-p	1.0 Vp-p
Pb (Cb) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p
Pr (Cr) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p
<b>Audio section</b>		
Audio signal output	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)
2-ch Mixed Output	1 system	1 system
5.1-ch Discrete Output	1 system	
<b>DVD linear audio</b>		
Frequency Response	4 Hz - 22 kHz / 48 kHz sampling 4 Hz - 44 kHz / 96 kHz sampling 4 Hz - 88 kHz / 192 kHz sampling	4 Hz - 20 kHz
Dynamic Range (DVD)	100 dB	100 dB
<b>Power supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power consumption</b>	15 W (standby: 0.4 W)	8 W (standby: 0.3 W)
<b>Dimensions (W x H x D)</b>	435 x 75 x 310 mm	435 x 75 x 310 mm
<b>Weight</b>	2.6 kg	2.3 kg

Integrated amplifier	PMA-SA1
<b>Rated output power</b>	
8 ohms	50 W + 50 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)
4 ohms	100 W + 100 W (1 kHz, 4 ohms, THD 0.7%)
<b>Total harmonic distortion</b>	0.007% (-3dB at rated output, 8Ω, 1 kHz)
<b>Equaliser amp output</b>	150 mV
<b>Input sensitivity/impedance</b>	
PHONO MM	2.5 mV/47 kohms
BALANCED	105 mV/100 kohms
LINE	105 mV / 47 kohms
<b>RIAA deviation</b>	PHONO MM: 20Hz - 20kHz ±0.3dB
<b>Signal-to-noise ratio</b>	
PHONO MM	89 dB (5 mV input)
BALANCED	105 dB
LINE	105 dB
<b>Power supply</b>	AC 230 V, 50 Hz
<b>Power consumption</b>	230W
<b>Dimensions (W x H x D)</b>	434 x 181 x 508 mm
<b>Weight</b>	30 kg

Home Theatre System	DHT-FS3	DHT-FS5
<b>Front speaker unit</b>		
Type		
Rated output	22 W x 5 (6 ohms)	25 W x 4 (6 ohms) + 50 W x 1 (3 ohms)
Input sensitivity	500 mV/47 kohms / 250 mV/47kohms (selectable)	500 mV/22 kohms 250 mV/22 kohms (selectable)
Frequency response	Front: 150 Hz - 20 kHz DSW: 45 Hz - 150 Hz	80 Hz - 20 kHz
S/N ratio	100 dB	100 dB
Power supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz
Power consumption	32 W standby: 1W or less	33 W Standby: 0.5 W
Speaker units	8 cm cone type x 6	8 cm cone type x 6
Maximum external dimensions (W x H x D)	Without feet: 850 x 96 x125 mm With 25 mm feet: 850 x 111 x 125 mm With 35 mm feet: 850 x 121 x 125 mm	Without feet: 750 x 118 x 138 mm With 25 mm feet : 750 x 140 x 138 mm
<b>Weight</b>	4.6 kg	5.1 kg
<b>Subwoofer</b>		
Type	1-way 1-speaker, bass reflex type	
Playback frequency range	45 Hz - 150 Hz	
Max. output	40 W (IEC), 80 W (PEAK)	
Input impedance	3ohms	
Speaker units	16 cm cone type x 1	
Maximum external dimensions (W x H x D)	106 x 380 x 360 mm	
<b>Weight</b>	5.6 kg	

Tuners	TU-1800DAB	TU-1500AE
<b>DAB tuner section</b>		
Tuning frequency	174.928 (5A) - 239,200 (13F) MHz (BAND III) 1452.960 (LA) - 1490.624 (LW) MHz (L-BAND)	-
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	-
Analog 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) Stereo 72 dB (IHF), 68 dB (DIN)	Mono 77 dB (IHF), 73 dB (DIN) 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
<b>Power supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power consumption</b>	14 W	10 W
<b>Dimensions (W x H x D)</b>	434 x 74 x 286 mm	434 x 73 x 286 mm
<b>Weight</b>	3.8 kg	3.6 kg

Integrated amplifiers	PMA-2000AE	PMA-1500AE	PMA-700AE	PMA-500AE
<b>Rated output power</b>				
8 ohms	80 W + 80 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	70 W + 70 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	50 W + 50 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	45 W + 45 W (20 Hz - 20 kHz, 8 ohms, THD 0.08%)
4 ohms	160 W + 160 W (1 kHz, 4 ohms, THD 0.7%)	140 W + 140 W (1 kHz, 4 ohms, THD 0.7%)	85 W + 85 W (1 kHz, 4 ohms, THD 0.7%)	70 W + 70 W (1 kHz, 4 ohms, THD 0.7%)
<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	125 mV/47 kohms	105 mV/47 kohms	150 mV / 30 kohms
<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	108 dB	107 dB	105 dB
<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
Loudness	-	-	+ 6 dB at 100 Hz, + 6 dB at 10 kHz	+ 6 dB at 100 Hz, + 6 dB at 10 kHz
<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	305 W	200 W	185 W
<b>Dimensions (W x H x D)</b>	434 x 181 x 480 mm	434 x 134 x 410 mm	434 x 121 x 337 mm	434 x 121 x 307 mm
<b>Weight</b>	24.0 kg	14.6 kg	7.0 kg	6.5 kg

Receivers	DRA-700AE	DRA-700AEDAB	DRA-500AE	DRA-CX3
<b>Power amplifier section</b>				
Rated output	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 105 W + 105 W (1 kHz, 4 ohms, THD 0.7%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 105 W + 105 W (1 kHz, 4 ohms, THD 0.7%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %) 95 W + 95 W (1 kHz, 4 ohms, THD 0.7%)	75 W + 75 W (8 ohms, DIN, THD 0.07 %) 150 W + 150 W (1 kHz, 4 ohms, THD 0.7%)
<b>Preamplifier section</b>				
Input sensitivity/impedance	PHONO (MM) : 2.5 mV/47 kohms CD, VIDEO, TAPE 1, TAPE 2 : 150 mV/25 kohms	PHONO (MM) : 2.5 mV/47 kohms CD, VIDEO, TAPE 1, TAPE 2 : 150 mV/25 kohms	CD, VIDEO, TAPE : 150 mV/25 kohms	PHONO (MM): 2.5mV/47kohms PHONO (MC): 0.2 mV/100 ohms CD, LINE1, LINE2, LINE3 : 130 mV/47 kohms
Tone control	Bass 100 Hz : ±10 dB Treble 10 kHz : ±10 dB	Bass 100 Hz : ±10 dB Treble 10 kHz : ±10 dB	Bass 100 Hz : ±10 dB Treble 10 kHz : ±10 dB	Bass 100 Hz : ±8 dB Treble 10 kHz : ±8 dB
<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	0.9 µV (10.3 dBf)	0.9 µV (10.3 dBf)	1.0 µV (10.3 dBf)	1.5 µV (10.3 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	20 µV
<b>DAB section</b>				
Tuning frequency range	-	174.928 (5A) - 239,200 (13F) MHz (BAND III) 1452.960 (LA) - 1490.624 (LW) MHz	-	-
Usable sensitivity	-	(L-BAND) -97 dBm	-	-
<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>	245 W	245 W	235 W	105 W
<b>Dimensions (W x H x D)</b>	434 x 147 x 417 mm	434 x 147 x 417 mm	434 x 147 x 414 mm	300 x 80 x 341 mm
<b>Weight</b>	9.7 kg	9.9 kg	9.0 kg	5.5 kg

CD/Super Audio CD players	DCD-SA1	CD	DCD-2000AE	CD	DCD-1500AE	CD
<b>Channels</b>	Super Audio CD 2 channels	CD 2 channels	Super Audio CD 2 channels	CD 2 channels	Super Audio CD 2 channels	CD 2 channels
<b>Frequency response</b>	2Hz-50kHz	2Hz-20kHz	2Hz-50kHz	2Hz-20kHz	2Hz-50kHz	2Hz-20kHz
<b>Dynamic range</b>	110 dB	100 dB	110 dB	100 dB	104dB	100 dB
<b>Signal-to-noise ratio</b>	117 dB	120 dB	113 dB	119 dB	104 dB	110 dB
<b>Total harmonic distortion</b>	0.001%	0.002%	0.001%	0.002%	0.001%	0.002%
<b>Wow &amp; flutter</b>	Below measurable limit: (± 0.001 % W. peak)	Below measurable limit: (± 0.001 % W. peak)	Below measurable limit: (± 0.001 % W. peak)	Below measurable limit: (± 0.001 % W. peak)	Below measurable limit: (± 0.001 % W. peak)	Below measurable limit: (± 0.001 % W. peak)
<b>Output voltage</b>	: Unbalanced : Balanced	: Unbalanced : Balanced	: Unbalanced : Balanced	: Unbalanced : Balanced	: Unbalanced : Balanced	: Unbalanced : Balanced
<b>Digital output</b>	: Coaxial : Optical : Emission wavelength	: Coaxial : Optical : Emission wavelength	: Coaxial : Optical : Emission wavelength	: Coaxial : Optical : Emission wavelength	: Coaxial : Optical : Emission wavelength	: Coaxial : Optical : Emission wavelength
<b>Digital input</b>	: Format : Coaxial : Optical	: Format : Coaxial : Optical	: Format : Coaxial : Optical	: Format : Coaxial : Optical	: Format : Coaxial : Optical	: Format : Coaxial : Optical
<b>Power supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power consumption</b>	35 W	35 W	20 W	20 W	16 W	16 W
<b>Dimensions (W x H x D)</b>	434 x 150 x 410 mm	434 x 150 x 410 mm	434 x 137 x 335 mm	434 x 137 x 335 mm	434 x 135 x 331 mm	434 x 135 x 331 mm
<b>Weight</b>	21.8 kg	21.8 kg	13.3 kg	13.3 kg	7.6 kg	7.6 kg

CD players	DCD-700AE	DCD-500AE	CD changer	DCM-500AE
<b>Channels</b>	2 channel stereo	2 channel stereo	2 channel stereo	2 channel stereo
<b>Dynamic range</b>	100 dB	98 dB	108 dB	98 dB
<b>Signal-to-noise ratio</b>	110 dB	105 dB	108 dB	98 dB
<b>Total harmonic distortion</b>	0.003%	0.003%	0.003%	0.003%
<b>Channel separation</b>	105 dB	102 dB	98 dB	98 dB
<b>D/A converters</b>	Advanced-Segment 24 bit type	Advanced-Segment 24 bit type	Multilevel Noise Shaping DAC	Multilevel Noise Shaping DAC
<b>Oversampling</b>	8 times	8 times	8 times	8 times
<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>	12 W	11 W	15 W	15 W
<b>Dimensions (W x H x D)</b>	434 x 107 x 279 mm	434 x 100 x 285 mm	434 x 120 x 400 mm	434 x 120 x 400 mm
<b>Weight</b>	4.2 kg	3.4 kg	6.3 kg	6.3 kg

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

Cartridges	DL-103	DL-103R	DL-103SA	DL-160	DL-110	DL-304
<b>Type</b>	MC	MC	MC	MC	MC	MC
<b>Output voltage</b>	0.3 mV	0.25 mV	0.25 mV	1.6 mV	1.6 mV	0.18 mV
<b>Frequency range</b>	20 Hz - 45 kHz	20 Hz - 45 kHz	20 Hz - 45 kHz	20 Hz - 50 kHz	20 Hz - 45 kHz	20 Hz - 75 kHz
<b>Output impedance</b>	40 ohms	14 ohms	40 ohms	160 ohms	160 ohms	40 ohms
<b>Weight</b>	8.5 g	8.5 g	9.7 g	4.8 g	4.8 g	7 g

Super Audio CD player	DCD-CX3	DCD-M37DAB	RCD-M37
<b>Channels</b>	2 channels	2 channels	2 channels
<b>Frequency response</b>	2Hz-50kHz	2Hz-20kHz	2Hz-20kHz
<b>Dynamic range</b>	109dB	100 dB	100 dB
<b>Signal-to-noise ratio</b>	112 dB	118 dB	118 dB
<b>Total harmonic distortion</b>	0.001%	0.002%	0.002%
<b>Wow &amp; flutter</b>	Below measurable limits	Below measurable limits	Below measurable limits
<b>Output voltage: Unbalanced</b>	2.0V (10kΩ)	2.0V (10kΩ)	2.0V (10kΩ)
<b>Digital output</b> : Coaxia	-	0.5Vp-p/75Ω	0.5Vp-p/75Ω
: Optical	-	-15 - -21dbm	-15 - -21dbm
: Emission wavelength	-	660nm	660nm
<b>Power supply</b>	AC 230 V, 50 Hz		
<b>Power consumption</b>	24 W		
<b>Dimensions (W x H x D)</b>	300 x 80 x 310 mm		
<b>Weight</b>	7.0 kg		

Super Audio CD Receiver	RCD-CX1	CD Receivers	RCD-M37DAB	RCD-M37
<b>Receiver section</b>		<b>Power Amplifier Section</b>		
Rated output	37.5 W + 37.5 W (8 ohms, DIN, 1 kHz, T.H.D. 0.7 %)	Rated Output Power	30 W + 30 W (6 ohms, 1 kHz)	30 W + 30 W (6 ohms, 1 kHz)
High frequency distortion	0.05 % (-3 dB at rated output, 8 ohms, 1 kHz)	<b>FM Section</b>		
Output terminals Speaker	4 - 16 ohms	Frequency Range	87.5 - 108.0 MHz	87.5 - 108.0 MHz
Equalizer amp output (REC OUT terminals)	Rated output: 150 mV	<b>AM Section</b>		
Input sensitivity/ Input impedance	PHONO (MM): 2.5 mV/47 kΩ PHONO (MC): 0.2 mV/100 ohms CD, LINE1, LINE2: 130 mV / 47 kΩ	Frequency Range	522 - 1611 kHz	522 - 1611 kHz
RIAA deviation	PHONO(MM): 20 Hz - 20 kHz±0.5 dB PHONO(MC): 30 Hz - 20 kHz±0.5 dB	<b>DAB Tuner</b>		
Reception frequency range	FM: 87.5 MHz - 108.0 MHz AM: 522 kHz - 1611 kHz	Frequency Range	BAND III 170MHz - 240MHz	-
S/N ratio	PHONO (MM): 84 dB PHONO (MC): 70 dB	<b>CD Player Section</b>		
(A-weighted network)	LINE1, LINE2: 95 dB	Type	Single CD Player	Single CD Player
Frequency response	10 Hz - 40k Hz (+0.5 dB, -3 dB)	Programming	25 tracks	25 tracks
<b>CD section</b>		<b>Power supply</b>	230 V, 50 Hz	230 V, 50 Hz
Type	Super Audio CD	<b>Power consumption</b>	65 W	65 W
Analog output		<b>Dimensions (W x H x D)</b>	210 x 115 x 308.5 mm	210 x 115 x 308.5 mm
Signal type	1-bit DSD	<b>Weight</b>	4.3 kg	4.3 kg
Sampling frequency	2.822 MHz			
Digital output				
Optical	-			
Emission wavelength	-			
General				
Power supply	230 V, 50 Hz			
Power consumption	50 W Standby: 0.3 W			
Maximum external dimensions	300 x 110 x 341 mm			
Weight	8.0 kg			

Receiver	DRA-F102 (DAB)	CD / HDD music system	CHR-F103
<b>Power amplifier section</b>		<b>Audio (LINE OUT1)</b>	
Rated output power	35 W + 35 W (4 ohms, 1 kHz, 0.7% THD)	Type	2-channel, Stereo
<b>Preamplifier section</b>		Frequency response	2 Hz - 20 kHz
Input sensitivity/Impedance	PHONO MM: 2.5 mV/47 kohms LINE: 300 mV/30 kohms Bass: 100 Hz ±8 dB Treble: 10 kHz ±8 dB	Dynamic range	100 dB
Tone control		Signal-to-noise ratio	108 dB
<b>FM section</b>		<b>CD</b>	
Frequency range	87.5 - 108.0 kHz	Playable format	CD-DA, WMA, MP3
Reception sensitivity	1.5 µV (12.8 dBf)	<b>HDD</b>	
Signal-to-noise ratio	Mono: 74 dB Stereo: 70 dB	Playable format	WMA, MP3, AAC (M4A), LPCM
<b>AM section</b>		Ripping format	WMA, LPCM
Frequency range	522 - 1611 kHz	Bitrate (WMA)	128kbps (Normal), 192kbps(HQ)
Reception sensitivity	20 µV	Song capacity	Approx. 10,000 (Normal), Approx. 7,000 (HQ) Approx. 900 (LPCM)
<b>DAB section (DRA-F102DAB)</b>		<b>Power supply</b>	230 V, 50 Hz
Frequency range	(BAND3 170 MHz - 240 MHz)	<b>Power consumption</b>	22 W
Reception sensitivity	(-97 dBm)	<b>Dimensions (W x H x D)</b>	250 x 110 x 268 mm
<b>Power supply</b>	230 V, 50 Hz	<b>Weight</b>	3.9 kg
<b>Power consumption</b>	85 W (less than 1 W in standby)		
<b>Dimensions (W x H x D)</b>	250 x 82 x 285 mm		
<b>Weight</b>	3.5 kg		

Cassette deck	DRR-F102
<b>Heads</b>	
Record and Playback	Hard permalloy record / playback head x 1
Erase	Double gap ferrite erase head x 1
<b>Power supply</b>	230 V, 50 Hz
<b>Power consumption</b>	9 W
<b>Dimensions (W x H x D)</b>	250 x 82 x 260 mm
<b>Weight</b>	3.1 kg

Speaker systems	SC-CX303	SC-CX101	SC-F102 / SC-F103	SC-M37
<b>Type</b>	2-way, 2-speakers	2-way, 2-speakers	2-way, 2-speakers	2-way, 2-speakers
<b>Drivers</b>	Reflex box / Low-leakage-flux 13 cm cone bass-mid x1 2.5cm soft dome high range x1	Reflex box / Low-leakage-flux 12 cm cone bass-mid x1 2.5cm soft dome high range x1	Reflex box / Low-leakage-flux 14 cm cone bass-mid x1 2.5 cm dome high range x1	Reflex box / Low-leakage-flux 12 cm cone bass-mid x1 2.5cm dome high range x1
<b>Frequency range</b>	35 Hz - 60 kHz	45 Hz - 40 kHz	40 Hz - 40 kHz	45 Hz - 40 kHz
<b>Crossover frequency</b>	3 kHz	3 kHz	3 kHz	3 kHz
<b>Max. input</b>	100W (IEC), 200W (PEAK)	60W (IEC), 120W (PEAK)	60 W (IEC), 120 W (PEAK)	60W (IEC), 120W (PEAK)
<b>Input impedance</b>	6 ohms	6 ohms	6 ohms	6 ohms
<b>Dimensions (W x H x D)</b>	182 x 276 x 293 mm	157 x 257 x 234 mm	182 x 264 x 233 mm	145 x 233 x 234 mm
<b>Weight (kg/unit)</b>	8.7 kg	5.2 kg	5.0 kg	3.8 kg

S-Series	S-302	S-102	S-Series	S-52 (DAB)	S-32
<b>Main unit</b>			Audio Section		
<b>DVD Section</b>			Input Sensitivity/Input Impedance	200 mV/47 kΩ/ohms	200 mV/47 kΩ/ohms
Signal system	PAL/NTSC	PAL/NTSC	Tuner Section/HD Radio section		
<b>Video Section</b>			FM		
Output level/Impedance (DVD only)			Frequency range	87.5 - 108.0 MHz	87.5 - 108.0 MHz
Composite Output	1 Vp-p/75 ohm	1 Vp-p/75 ohm	Effective sensitivity	1.5 µV/75 ohm (14.7 dBf)	1.5 µV/75 ohm (14.7 dBf)
S-Video Output	Y signal: 1 Vp-p/ 75Ω/ohms C signal: 0.3 Vp-p/ 75Ω/ohms	Y signal: 1 Vp-p/ 75Ω/ohms C signal: 0.3 Vp-p/ 75Ω/ohms	AM		
Component Output	Y signal: 1 Vp-p/ 75Ω/ohms CB/PB signal: 0.7 Vp-p/ 75Ω/ohms CR/PR signal: 0.7 Vp-p/ 75Ω/ohms	Y signal: 1 Vp-p/ 75Ω/ohms CB/PB signal: 0.7 Vp-p/ 75Ω/ohms CR/PR signal: 0.7 Vp-p/ 75Ω/ohms	Frequency range	522 - 1611 kHz	522 - 1611 kHz
<b>Audio Section</b>			Effective sensitivity	20 µV	20 µV
Input Sensitivity/Input Impedance	250 mV/47 kΩ	140 mV/47kΩ	DAB tuner (S-52DAB)		
<b>Tuner Section</b>			Frequency Range	(BAND III 170MHz - 240MHz)	-
FM			General		
Frequency range	87.5 - 108.0 MHz	87.5 - 108.0 MHz	Power supply	AC 230V, 50 Hz	AC 230V, 50 Hz
Effective sensitivity	1.5 µV/75 ohm (14.7 dBf)	1.5 µV/75 ohm (14.7 dBf)	Power consumption	37W (At Standby: 0.3 W)	37W (At Standby: 0.3 W)
AM			Dimensions (W x H x D)	380 x 126 x 226 mm	380 x 126 x 226 mm
Frequency range	522 - 1611 kHz	522 - 1611 kHz	Weight	6.7 kg	6.0 kg
Effective sensitivity	20 µV	20 µV			
<b>General</b>			<b>Speaker system</b>		
Power supply	AC 230V, 50 Hz	AC 230V, 50 Hz	Type	2 way 3 speakers, Closed Box / Low-leakage-flux	2 way 2 speakers, Closed Box / Low-leakage-flux
Power consumption	70 W (Standby: 0.3 W)	51 W (Standby: 0.3 W)	Woofer	8 cm Cone Bass-mid x 2	8 cm Cone Bass-mid x 1
Dimensions (W x H x D)	380 x 97 x 301 mm	380 x 93 x 293 mm	Tweeter	2.0 cm High range x 1	2.5 cm High range x 1
Weight	4.3 kg	3.8 kg	Magnetic shields	Yes	Yes
<b>Speaker system</b>			Dimensions (W x H x D)	131 x 335 x 76 mm	103 x 258 x 76 mm
Type	2 way 3 speakers, Closed Box / Low-leakage-flux	2 way 2 speakers, Closed Box / Low-leakage-flux	Weight	2.0 kg/unit	1.0 kg/unit
Woofer	8 cm Cone Bass-mid x 2	8 cm Cone Bass-mid x 1	<b>Subwoofer</b>		
Tweeter	2.0 cm High range x 1	2.5 cm High range x 1	Type	Reflex Box, Low-leakage-flux, Built-in Amplifier	Reflex Box, Low-leakage-flux, Built-in Amplifier
Magnetic shields	Yes	Yes	Speaker	16 cm Cone x1	16 cm Cone x1
Dimensions (W x H x D)	131 x 335 x 76 mm	103 x 258 x 76 mm	Magnetic Shields	Yes	Yes
Weight	2.0 kg/unit	1.0 kg/unit	Dimensions (W x H x D)	212 x 378 x 406 mm (including foot)	212 x 378 x 408 mm (including foot)
<b>Subwoofer</b>			Weight	11.2 kg (including base)	10.5 kg (including base)
Type	Reflex Box, Low-leakage-flux, Built-in Amplifier	Reflex Box, Low-leakage-flux, Built-in Amplifier			

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