

DENON

General catalogue

2007/2008





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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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.

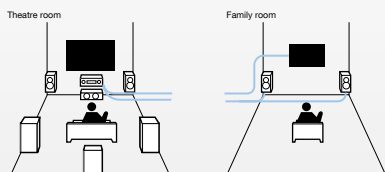
Below are some examples of how you can use Denon's powerful new products to enjoy various kinds of content in the home. How you set up your system is up to you. Denon Home Networking even lets you include your existing system.

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 10 >

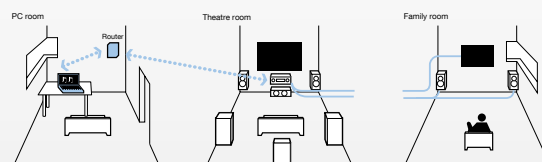


Building a Network

– PC Room
(Music libraries on your computer)

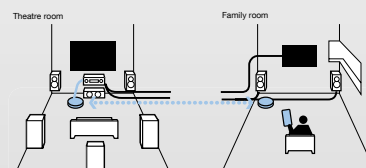


Whether you have Windows PCs or Macs, Denon Networking lets you enjoy the music libraries stored on those computers. For instance, the AVC-A1HD can receive music files from a computer wirelessly, so if you use the multi-room function, you can enjoy those files in the Family Room as well.



But how do you select the music you want to hear when you're in the Family Room?

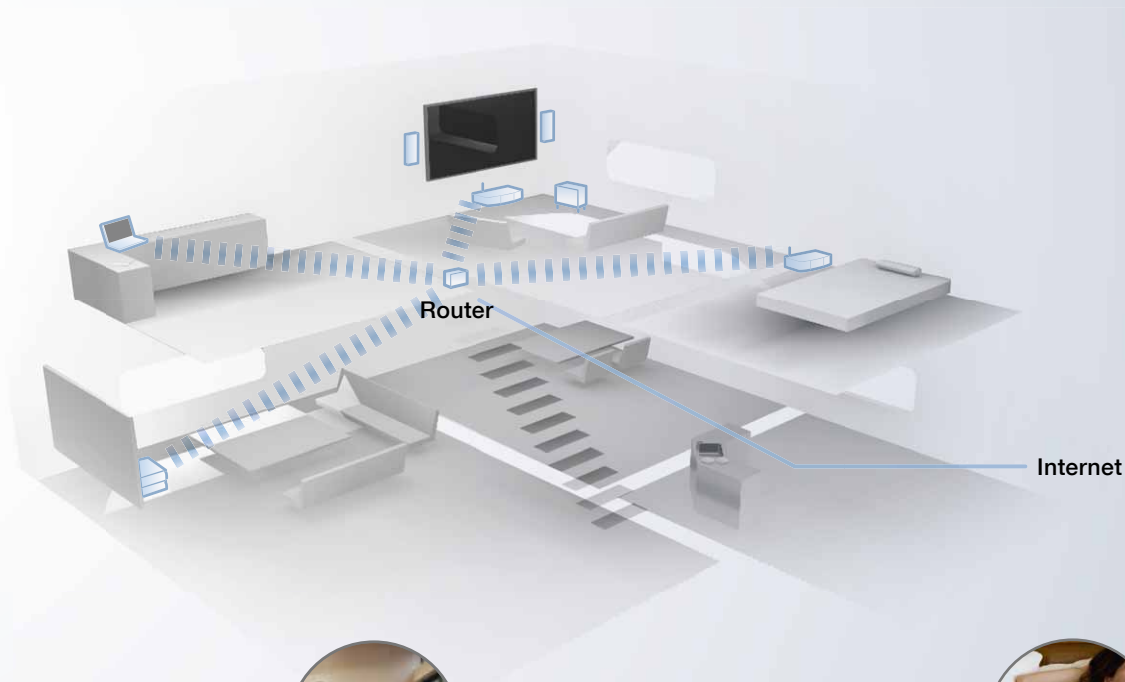
That's where the RC-7000CI and the RC-7001RCI come in. This remote controller and remote receiver let you engage in 2-way communication. While you are sitting on the sofa in the Family Room, you can select music files from a computer and operate the AVC-A1HD while viewing the LCD screen on the RC-7000CI.



RC-7000CI - See page 35 >



.Network



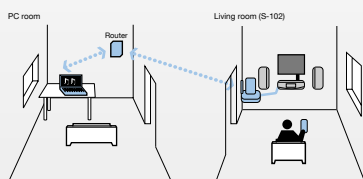
Adding non-networking audio devices to the network

– Living Room –



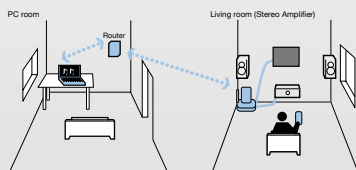
Let's say you've set up an S-102 in the Living Room so that you can conveniently enjoy your DVD Home Theatre. While the S-102 itself cannot be networked, it still lets you enjoy music libraries from your computers while you're in the Living Room.

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.



ASD-3W - See page 36 >

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.



< S-102 - See page 40



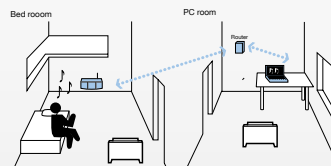
Stereo Amplifiers, Mini Component Systems
- See page 26, 32 >

So easy and convenient.

– Bedroom –



Despite its compact size, the S-52DAB 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/DAB radio and CDs, too.



S-52DAB - See page 42 >





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

ADVANCED *AL24* PROCESSING
MULTI CHANNEL

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 $f_s/2$ (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

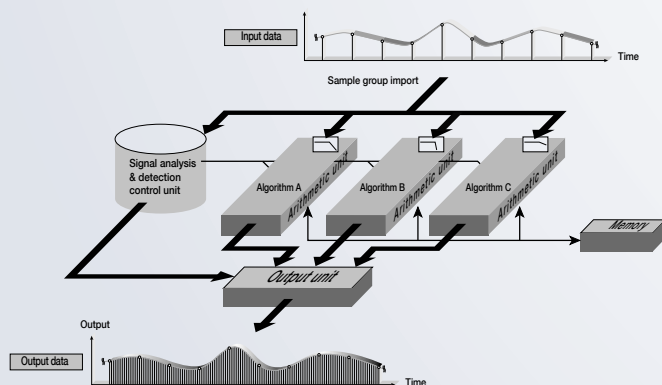
AL24 Processing Plus: Denon has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192-kHz sampling frequency of DVD-Audio. This new technology, called AL24 Processing Plus, thoroughly suppresses quantisation noise associated with D/A conversion 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.

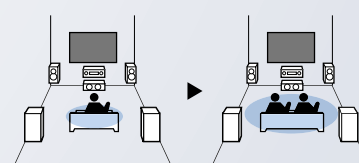
Supports next generation high resolution formats: Future system upgrade capability is provided with the Denon's A/V receivers 6/8 Channel External Input feature. For next generation high resolution multi-channel audio formats such as DVD-Audio and Super Audio CD, the 6/8 Channel External Input is equipped 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.

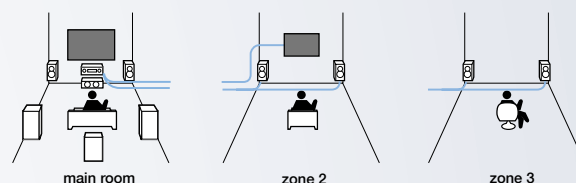
Digital Bass Management: When playing multi-channel Dolby Digital, dts, LPCM or DVD-Audio/MLP sources, it is possible to preset speaker configurations and delay times. The crossover point is fixed at 80 Hz with 12 dB high and 24 dB low pass filter slopes.

Ultra High Current MOS SINGLE PUSH-PULL CIRCUIT

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

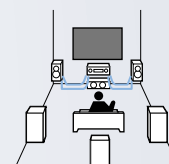
Leakage Cancelling (LC) mounted twin transformers, for wide dynamic range and low noise: By employing a large magnetic circuit with low magnetic flux density, the power transformer achieves superior response characteristics capable of accommodating musical signals with a broad dynamic range even in areas 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)

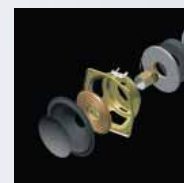


Power amplifier assign function (Assignable surround back amplifier):

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)











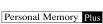
D.D.L. (Denon Double Layer) cone: The newly-developed D.D.L. (Denon Double Layer) cone has been used for the woofer diaphragm (S-81DAB/SC-F102/103, SC-M53/73, SC-CX101/303). This dual-layer diaphragm whose structure is the result of meticulous simulations is both highly rigid and light-weight and achieves a precision piston motion across the entire sonic spectrum. The ingenious structural design ensures that sympathetic vibration from the edge do not adversely affect the audio characteristics but deliver the best possible quality in sound. Improvements in top-bottom symmetry in magnetic flux distribution and other areas, together with the magnetic circuit of advanced design, bring out a deeply impressive strength of expression.



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-A1HD

AV Pre-amplifier

Network



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.
- 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

- 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.
- 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

Ease-of-Use

- 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 with text/album art is also available
- 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

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



○ Premium Silver



○ Premium Silver

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.



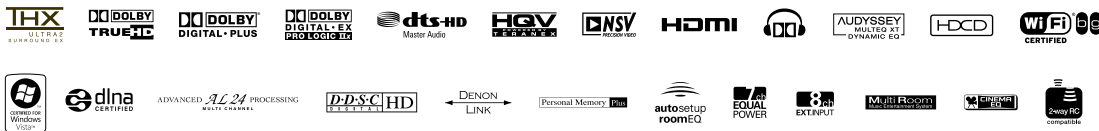
AVC-A1HD

AV Surround Amplifier

.Network



Premium Silver



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

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- 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)

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-4308

AV Surround Receiver

Network



● Dark Silver
● Black



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

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- DAB built in

Ease-of-Use

- 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 and also DAB
 - 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)

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



AV Surround Receiver

..Network



**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.
- 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

- Ideal 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

- 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)

Multi Zone Capability

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



AVR-2808

AV Surround Receiver



The Latest HD Audio and Video Support

- New lossless audio formats Dolby True HD and dts-HD Master 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, 110W x 7ch
- 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.
- 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.
- HD Video Circuit
 - Discrete and latest devices for ultimate HD video performance in each block.
 - Faroudja DCDi Processing up to 1080p
 - 12bit/216MHz video encoder with NSV
 - Analog 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

- iPod audio, photo and video playback (optional ASD product family)
- Dual component outputs

Ease-of-Use

- Auto set-up and Room EQ, featuring MultEQ XT from Audyssey
- Includes dedicated zone remote control unit
- Auto Lip Sync (HDMI 1.3a)
- New back panel layout
- Supports Denon 2-way remote control units (RC-7000CI, RC-7001RCI; sold separately)

Multi Zone Capability

- Three Zone multi source capability
- Digital to analog conversion for multi zone output
- Remote in/out
- RS-232C control



AVR-2308

AV Surround Receiver

The Latest Audio and Video Support

- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI1.3a inputs/outputs allow to handle audio and video signal with higher speed.
- HDMI Audio support for up to 7.1ch PCM 24bits/192 kHz

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

- Identical quality and power for all 7 channels, 100W x 7ch
- New 32 bit floating point DSP
- Pure direct
- 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.
- Latest version MultEQ
 - New tower type microphone for more accurate measuring
 - Maximum six points measurement
 - Full subwoofer and low frequency band correction
- HD Video Circuit
 - Discrete and latest devices for ultimate HD video performance in each block.
 - Faroudja DCDi Processing up to 1080p
 - Analog 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

- iPod audio, photo and video playback (optional ASD product family)

Ease-of-Use

- Auto set-up and Room EQ, featuring MultEQ from Audyssey
- New back panel layout
- Supports Denon 2-way remote control units (RC-7000CI, RC-7001RCI; sold separately)

Multi Zone Capability

- Two Zone multi source capability
- Remote in/out
- RS-232C control



● Dark Silver
● Black



AVR-1908

AV Surround Receiver

The Latest Audio and Video Support

- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI1.3a inputs/outputs allow to handle audio and video signal with higher speed.
- HDMI Audio support for up to 7.1ch PCM 24bits/192 kHz

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

- Identical quality and power for all 7 channels, 90W x 7ch
- New 32bit floating point DSP
- Pure direct
- 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.
- Latest version MultEQ
 - New tower type microphone for more accurate measuring
 - Maximum six points measurements
 - Full subwoofer and low frequency band correction
- HD Video Circuit
 - Discrete and latest devices for ultimate HD video performance in each block.
- New Chassis Construction for clear audio and video signal
 - Minimum signal path
 - Direct Mechanical Ground for stable drive
 - Separate unit design

Digital Media Connectivity

- iPod audio, photo and video playback (optional ASD product family)

Ease-of-Use

- Auto set-up and Room EQ, featuring MultEQ from Audyssey
- New back panel layout



● Dark Silver
● Black



AVR-1708

AV Surround Receiver

The Latest Audio and Video Support

- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI1.3a inputs/outputs allow to handle video signal with higher speed.

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

- Identical quality and power for all 7 channels, 75W x 7ch
- 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.
- Latest version MultEQ
 - New tower type microphone for more accurate measuring
 - Maximum six points measurements
 - Full subwoofer and low frequency band correction
- HD Video Circuit
 - Discrete and latest devices for ultimate HD video performance in each block.
- New Chassis Construction for clear audio and video signal
 - Minimum signal path
 - Direct Mechanical Ground for stable drive
 - Separate unit design

Digital Media Connectivity

- iPod audio, photo and video playback (optional ASD product family)

Ease-of-Use

- Auto set-up and Room EQ, featuring MultEQ from Audyssey
- New back panel layout



AVR-1508

AV Surround Receiver

The Latest Audio and Video Support

- 1080p, Deep Color 30/36 bits color depth and xvYCC broader color space support.
- HDMI1.3a inputs/outputs allow to handle video signal with higher speed.

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

- Identical quality and power for all 7 channels, 75W x 7ch
- 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.
- MultEQ
 - New tower type microphone for more accurate measuring
 - Maximum six points measurements
 - Full subwoofer and low frequency band correction
- HD Video Circuit
 - Discrete and latest devices for ultimate HD video performance in each block.
- New Chassis Construction for clear audio and video signal
 - Minimum signal path
 - Direct Mechanical Ground for stable drive
 - Separate unit design

Digital Media Connectivity

- iPod audio, photo and video playback (optional ASD product family)

Ease-of-Use

- Auto set-up and Room EQ, featuring MultEQ from Audyssey
- New back panel layout



	AVP-A1HD	AVC-A1HD	AVR-4308	AVR-3808	AVR-2808
Decoder					
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	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	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	•	•	•	•	•
HDCD	•	•	•	•	
Processor & converter					
32-bit floating point DSP	High grade x3	High grade x3	High grade x2	High grade x2	High grade x2
192kHz/24bit D/A Converter for all ch	•	•	•	•	•
Circuit & construction					
DDSC-Digital	•	•	•	•	•
AL24 Processing	Advanced	Advanced	Advanced	Plus	Plus
Pure direct	•	•	•	•	•
Variable gain volume control	•	•	•	•	•
Amplifier					
Amplifier channels		7	7	7	7
8ohm rated power output		150W	140W	130W	110W
6ohm rated power output		200 W	170W	160W	140W
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
Video input terminals					
HDMI	6 (with up to 7.1 PCM Audio)	6 (with up to 7.1 PCM Audio)	4 (with up to 7.1 PCM Audio)	4 (with up to 7.1 PCM Audio)	2 (with up to 7.1 PCM Audio)
Component video	6	6	3	3	3
S-Video (incl. front panel)	8	8	7	7	7
Video output terminals					
HDMI (*1)(*2)	2	2	2	1	1
Component Video	2+Zone2	2+Zone2	2+Zone2	2	2
S-Video	4+Zone2	4+Zone2	3	3	3
Audio input terminals					
EXT. IN	8ch x1	8ch x1	8ch x1	8ch x1	8ch x1
Digital (Coaxial)	4	4	3	3	3
Digital (Optical) (incl. front panel)	5	5	4	4	4
Analog	2+phono+XLR for CD	2+phono	2+phono	2+phono	2+phono
DENON Link	1	1	1	1	
Audio output terminals					
Digital (Coaxial)					
Digital (Optical)	3+Zone2	3+Zone2	2	2	2
Pre Out	9.3ch/Zone2/Zone3 XLR(9.3ch) + SW2 + SW3	9.3ch/Zone2/Zone3	7.1ch/Zone2/Zone3	7.1ch/Zone2/Zone3	7.1ch/Zone2/Zone3
Audio/Video Inputs (incl. front panel)	9	8	7	7	7
Other connections					
RS-232C	•	•	•	•	•
Wi-Fi	•	•	•		
Ethernet	•	•	•	•	
Internet radio/ Audio streaming	•	•	•	•	
Web control	•	•	•	•	
iPod	• (*3)	• (*3)	• (*3)	• (*3)	• (*3)
USB	2 (Selectable)	2 (Selectable)	2 (Selectable)	2 (Selectable)	
Set up & operation					
Auto setup with microphone	•	•	•	•	•
Room EQ	• (Audyssey MultEQ XT)	• (Audyssey MultEQ XT)	• (Audyssey MultEQ XT)	• (Audyssey MultEQ XT)	• (Audyssey MultEQ XT)
GUI	•	•	•	•	•
On screen display	• (Zone2)	• (Zone2)	• (Zone2)	• (Zone2)	•
Remote	EL back light w/GLO-key	EL back light w/GLO-key	EL back light	EL back light	EL back light
Remote for Zone	•	•	•	•	•
Personal memory plus	•	•	•	•	•
3 Quick Select buttons	•	•	•	•	•
Others					
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	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	Composite <--> S-video <--> Component -> HDMI	Composite <--> S-video <--> Component -> HDMI
Component video band width	100MHz	100MHz	100MHz	100MHz	100MHz
Cinema EQ	•	•	•	•	•
Night mode	•	•	•	•	•
ALL ch binding post SP terminal	•	•	•	•	•
Surround SP A/B		•	•	•	
Front SP A/B					•
Tuner			• (FM/AM + DAB)	• (FM/AM)	• (FM/AM)
RDS (radio data system)			•	•	•
Radio Text			•	•	•
Auto surround mode	•	•	•	•	•
Multi channel stereo mode	•	•	•	•	•

	AVR-2308	AVR-1908	AVR-1708	AVR-1508
Decoder				
THX SURROUND EX				
DOLBY	Digital Digital EX Pro Logic II/ IIx	Digital Digital EX Pro Logic II/ IIx	Digital Digital EX Pro Logic II/ IIx	Digital Digital EX Pro Logic II/ IIx
DTS	ES Discrete6.1 ES Matrix6.1 Neo:6	ES Discrete6.1 ES Matrix6.1 Neo:6	ES Discrete6.1 ES Matrix6.1 Neo:6	ES Discrete6.1 ES Matrix6.1 Neo:6
DTS 96/24	•	•	•	•
HDCD				
Processor & converter				
32-bit floating point DSP	x1	x1	x1	x1
192kHz/24bit D/A Converter for all ch	•	•	•	•
Circuit & construction				
DDSC-Digital				
AL24 Processing				
Pure direct	•	•		
Variable gain volume control				
Amplifier				
Amplifier channels	7	7	7	7
8ohm rated power output	100W	90W	75W	75W
6ohm rated power output	135W	120W	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	Front SP Bi-amp	
Video input terminals				
HDMI	2 (with up to 7.1 PCM Audio)	2 (with up to 7.1 PCM Audio)	2	2
Component video	3	3	3	3
S-Video (incl. front panel)	5	3	3	3
Video output terminals				
HDMI (*1)(*2)	1	1	1	1
Component Video	1	1	1	1
S-Video	3	2	2	2
Audio input terminals				
EXT. IN	8ch x1	8ch x1	8ch x1	8ch x1
Digital (Coaxial)	3	2	2	2
Digital (Optical) (incl. front panel)	3	2	2	2
Analog	2+phono	3	3	3
DENON Link				
Audio output terminals				
Digital (Coaxial)				
Digital (Optical)	1	1		
Pre Out	7.1ch	7.1ch	Subwoofer	Subwoofer
Audio/Video Inputs (incl. front panel)	5	4	4	4
Other connections				
RS-232C	•			
Ethernet				
IEEE 1394				
Internet radio/ Audio streaming				
Web control				
iPod	• (*3)	• (*3)	• (*3)	• (*3)
Set up & operation				
Auto setup with microphone	•	•	•	•
Room EQ	•	•	•	•
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
Personal memory plus	•	•	•	•
3 Quick Select buttons	•	•	•	•
Others				
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
Component video switching	•	•	•	•
S-Video switching	•	•	•	•
Video up/down conversion	Composite <-> S-video <-> Component -> HDMI	Composite -> HDMI S-video -> HDMI Component -> HDMI Composite <- S-video	Composite -> S-video -> Component Composite <- S-video	
Component video band width	100MHz	100MHz	100MHz	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)
RDS (radio data system)	•	•	•	•
Radio Text	•	•	•	•
Auto surround mode	•	•	•	•
Multi channel stereo mode	•	•	•	•

(*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-3930

DVD-Audio/Video / Super Audio CD player



- Premium Silver
- Dark Silver
- Black

- Latest video processing technology (HQV REALTA) from Silicon Optix, Inc.
- High-quality I/P conversion & motion adaptive noise reduction
- Denon Pixel Image Correction, for more natural contour correction
- High-performance video scaler capable of 1080p output for HDMI
- Dual Discrete Video Circuit (DDVC)
- High-speed, high-precision 14-bit 216-MHz video DAC
- Adjusts keystone
- Simultaneous output possible for all video signals
- Supports PAL and NTSC (PAL/NTSC conversion)
- High-quality playback of SuperAudioCD and DVD-Audio
- VGA, XGA, WXGA and SXGA output
- Supports fine picture quality adjustments
- Advanced AL24 Processing, original Denon technology for high-quality audio
- High-accuracy D/A converters for all channels

- Pure direct mode, for greater purity in the audio signal
- DENON Link (3rd edition)
- HDMI digital audio output up to 6 channels
- Dedicated circuits for each 2ch/5.1ch audio output
- Bass management function tailored for home theatre environments
- Equipped with analog power transformer
- Thorough vibration-resistant construction
- RS-232C serial command control
- Remote in/out terminal
- DivX (ver. 6)

* Official DivX Certified™ product

* Plays DivX@6, DivX@5, DivX@4, DivX@3, and DivX@ VOD video content
(in compliance with DivX Certified TM technical requirements)



DVD-2930

DVD-Audio/Video / Super Audio CD player

- Latest I/P converter (REON VX) from Silicon Optix, Inc.
- Denon Pixel Image Correction, for more natural contour correction
- High-performance video scaler capable of 1080p output for HDMI
- Dual Discrete Video Circuit (DDVC)
- High-speed, high-precision 12-bit 216-MHz video DAC
- Supports fine picture quality adjustments
- Simultaneous output possible for all video signals
- Supports PAL and NTSC
- AL24 Processing Plus, original Denon technology for high-quality audio
- All channel equal 24-bit, 192kHz Audio D/A Converter
- Pure direct mode, for greater purity in the audio signal
- DENON Link 3rd, for high-grade audio transmission
- HDMI digital audio output up to 6 channels
- RS-232C and remote in/out terminal
- DivX (ver. 6)

* Official DivX Certified™ product

* Plays DivX®6, DivX®5, DivX®4, DivX®3, and DivX® VOD video content
(in compliance with DivX Certified TM technical requirements)



- Dark Silver
- Black



DVD-1940

DVD/ Super Audio CD Player

- 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 ® 6)) 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 1.3 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.



- Dark Silver
- Black



DVD-1740

DVD Player

- 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 ® 6)) 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 1.3 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.



- Dark Silver
- Black



	DVD-3930	DVD-2930	DVD-1940	DVD-1740
Decoder				
DOLBY Digital	•	•	•	• (2ch)
DTS	•	•	•	
Processor & Converter				
Video DAC	216MHz/14bit x2	216MHz/12bit x2	216MHz/12bit	108MHz/12bit
Audio DAC	192MHz/24bit	192MHz/24bit	192MHz/24bit	192MHz/24bit
Advanced AL24 processing	• (2ch stereo)			
AL24 processing	• (all ch)	• (all ch)		
Progressive scan circuit	HQV (REALTA)	HQV (REON VX)	DCDi	
PAL / NTSC	• / •	• / •	• / •	• / •
Construction & Circuit				
D.D.V.C.	•	•		
Multi layered construction	•	•		
Loader mechanism	SVH	HYBRID		
Pure direct	•	•	•	
Picture & Audio functions				
Denon Pixel Image Correction	•	•		
Bass management for DVD-Video/ DVD-Audio/ SuperAudioCD	• / • / •	• / • / •	• / • / •	
Time alignment for DVD-Video /DVD-Audio/ Super Audio CD	• / • / •	• / • / •	• / • / •	• / - / -
Video output terminals				
SCART RGB	1	1	1	1
Composite	1	1	1	1
S-video	1	1	1	1
Component	2	1	1	1
HDMI (*2)(*3)	1	1	1	1
Audio output terminals				
Digital (Coaxial / Optical)	1 / 1	1 / 1	1/1	1/1
Analog	2ch x1, 5.1ch x1	2ch x1, 5.1ch x1	2ch x1, 5.1ch x1	2ch x1
HDMI multi channel audio	•	•	•	
Playable discs (*1)				
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	Ultra	Ultra

(*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.

(*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.

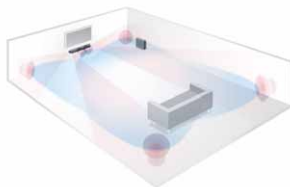
DHT-FS3

Home Theatre System



Home Theatre Sound Quality

- Surround sound with dynamic ambiance 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).
- 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.





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 / DCD-CX / SC-CX303

DRA-CX3

Stereo Receiver

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

○ Premium Silver (with Sand-blast finish)



DCD-CX3

CD/ Super Audio CD Player



AL24 Processing

MP3



- Newly-developed mechanism to accurately read information from the disc
- AL24 Processing, to dramatically enhance the music listening experience
- Highly reliable DAC master clock design
- Separate digital and 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

○ Premium Silver (with Sand-blast finish)



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 D.D.L. cone woofer units utilising glass 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 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
- Speaker terminals made of gold-plated, machined brass
- Parts strictly selected for high sound quality
- Includes anti-slip pads





Audio Products
Hi-fi Components

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.



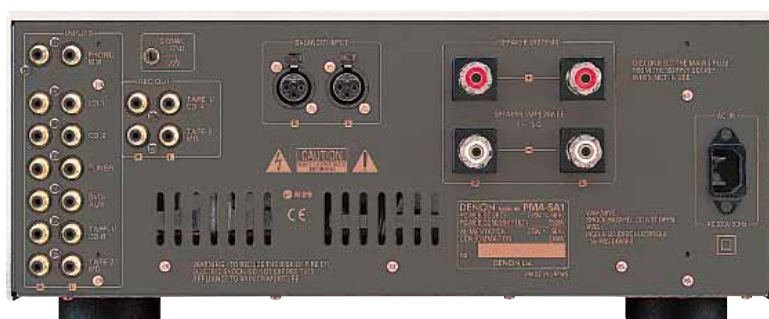
PMA-SA1

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 Σ 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



DCA-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

Integrated amplifier

○ Premium Silver

Ultra High Current MOS
SINGLE PUSH-PULL CIRCUIT

- 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

CD/Super Audio CD player

○ Premium Silver



ADVANCED *AL 24* PROCESSING

- '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

Integrated amplifier

○ Premium Silver
● Black

Ultra High Current MOS
SINGLE PUSH-PULL CIRCUIT

- 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

CD/Super Audio CD player

○ Premium Silver
● Black



AL 24 Processing

- 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-700AE

Integrated amplifier

- Premium Silver
- Black

- 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



PMA-500AE

Integrated amplifier

- Premium Silver
- Black

- 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



DRA-700AEDAB*

DAB/AM-FM stereo receiver

- Premium Silver
- Black

SLDC Multi Zone DAB RDS RadioTEXT

- 105 W x 2 (4 ohms)
- Signal Level Divided Construction (SLDC)
- Wide-range play capability for DVD-Audio or Super Audio CD
- DAB tuner
- 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)



	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



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



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



DCD-700AE

CD player

- Premium Silver
- Black



- 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



DCD-500AE

CD player

- Premium Silver
- Black



- 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





DCM-500AE

5-CD auto changer

- Premium Silver
- Black



MP3 WMA

- 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



	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-700AEDAB	DRA-CX3
SLDC	•	
Speaker	A/B	A
Analog inputs	5 + Phono (MM)	5
Analog outputs	2 + pre out for Zone2 & 3	1
Loudness	•	
Binding post speaker terminal	•	•
RDS with RadioText	•	•
Dot matrix display	• (2-line)	• (1-line)
Video in/out	3 / 2 +2 for Zone2 & 3	
DAB tuner	•	
Station memory (FM&AM / DAB)	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	•	•

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-F102DAB

D-F102DAB
DCD-F102
SC-F102



D-F103HRDAB

D-F102DAB
CHR-F103
SC-F103

DRA-F102DAB

Receiver



- Supports wide dynamic range playback and high-quality sound, rivaling 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

DCD-F102

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)

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

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



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



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

D-M35DAB
RCD-M35DAB
SC-M73



RCD-M33

CD receiver



- 22 W x 2 (6 ohms)
- CD-R, CD-RW (MP3/Windows Media Audio) Playback
- AM/FM Tuner
- 2 Line Dot Matrix Display for Various Information (Station Name, Artist Name etc.)
- S.D.B. (Super Dynamic Bass)
- Tone Controls (Bass, Treble)
- Source Direct Function
- 2 Sets of Analog Stereo Inputs and Analog Stereo Outputs
- Subwoofer Output
- Easy-to-Use Remote Control
- Headphone Jack
- A wealth of Playback Functions
- Optical Digital Output Jack for Direct Transmission of Digital Signals
- Auto Edit Function
- Radio TEXT with RDS function
- Everyday/Once/Sleep Timer

DRR-M33 (Optional)

Cassette deck



- Horizontal Loading Mechanism for Smooth, Stable Tape Travel
- Dolby B Noise Reduction System
- CD-SRS for One-Touch Recording from CD
- A Wealth of Editing and Playback Functions
- One-Touch Auto Reverse Operation
- Music Search
- Auto Tape Selector



D-M33
RCD-M33
SC-M53



RCD-M35DAB

CD receiver



- 22 W x 2 (6 ohms)
- CD-R, CD-RW (MP3/Windows Media Audio) Playback
- DAB (Digital Audio Broadcast) Tuner
- AM/FM Tuner
- 2 Line Dot Matrix Display for Various Information (Station Name, Artist Name etc.)
- S.D.B. (Super Dynamic Bass)
- Tone Controls (Bass, Treble)
- Source Direct Function
- 2 Sets of Analog Stereo Inputs and Analog Stereo Outputs
- Subwoofer Output
- Easy-to-Use Remote Control
- Headphone Jack
- A wealth of Playback Functions
- Optical Digital Output Jack for Direct Transmission of Digital Signals
- Auto Edit Function
- Radio TEXT with RDS function
- Everyday/Once/Sleep Timer

SC-M53

Speaker system

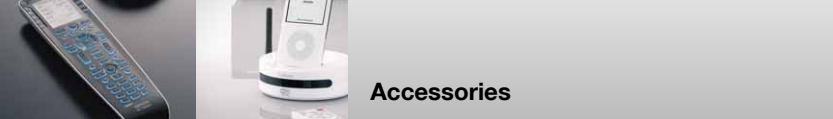
- European sound tuned speakers
- 2-way 2 Speakers
- 12 cm woofer unit with D.D.L. (Denon Double Layer) cone
- 2,5 cm Soft dome Tweeter x1

SC-M73

Speaker system

- European sound tuned speakers
- 2-way 2 Speakers
- 13 cm woofer unit with D.D.L. (Denon Double Layer) cone
- 2,5 cm Soft dome Tweeter x1

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



Accessories



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^(*) to a Denon A/V Receiver or other device⁽²⁾ 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.

RC-7000CI

RF/IR Remote Controller

- 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

Connecting an RC-7000CI RF/IR Remote Receiver (sold separately) to a Denon A/V Receiver or other device⁽²⁾ 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.



RC-7001RCI

RF/IR Remote Receiver

- 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^(*).

^(*) With optional RC-7001RCI Base Station

⁽²⁾ The Denon product must support 2-way communication.

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

ASD-3W (wireless and wired)

ASD-3N (wired)

Control Dock for iPod

Network



ASD-3N
(White)



ASD-3W
(Black)

○ White
● Black

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.

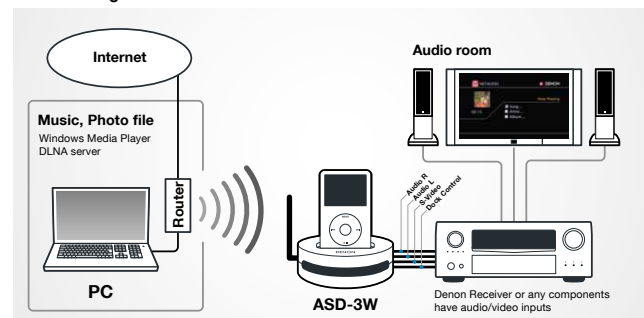
*1 Windows Media Player version 11 or latest version is required.

*2 Non-DRM files only

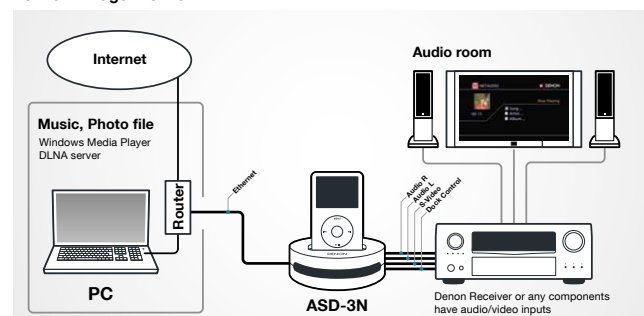
Please visit <http://blog.denon.com/asd-3/> for more details on compliant models and connection procedures.



Network image: ASD-3W



Network image: ASD-3N



ASD-1R

Control Dock for iPod

• Playback with 'Command and Control' of your iPod

The Denon ASD-1R lets you connect your iPod to a Denon component with a dock control or to a Denon mini component equipped with a system connector. This connection allows you to control your iPod with your Denon remote controller that came with the Denon component.

• Display iPod information on your TV or other monitor

You can monitor iPod text information, such as menus and track names, on a TV screen, or a front panel display of Denon's components. (This feature is only available when connected to Denon products with a dock control.)

• Recharge your iPod

• Enjoy photos and videos, too.

The ASD-1R lets you show slide shows or videos stored in your iPod. (iPod Photo and iPod Video only).

• Supported iPods

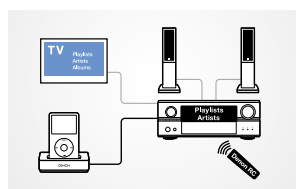
The ASD-1R supports iPods equipped with the Dock Connector Port. However, 3rd-generation iPod (with Dock Connector) require Apple iPod Universal Dock Adapter (separately available from Apple Inc.) in order to be connected to the ASD-1R.

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

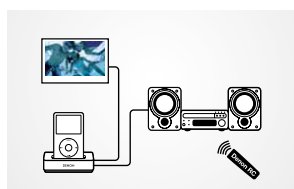
Please visit <http://blog.denon.com/asd-1r/> for more details on compliant models and connection procedures.



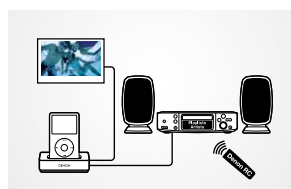
- White
- Black



Connection example
Using Denon component with
a dock connector



Connection example
Using Denon mini component with
a system connector



Connection example
Using Denon mini component with
a dock connector

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

- 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

AH-D5000

Stereo Headphones

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



AH-D2000

Stereo 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



AH-D1001

Stereo 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-D501

Stereo Headphones

- 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

- Silver
- Black



AH-D301

Stereo Headphones

- 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

- Silver
- Black



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

- Silver
- Black



AH-C351

Inner Ear Stereo Headphones

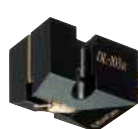
- Acoustic optimiser
- Gold plated connector
- 3 sizes of ear pads included
- Extension cable and carrying pouch

- White
- Black



DL-103

MC cartridge



DL-103R

MC cartridge



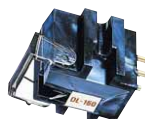
DL-103SA

Limited edition
MC cartridge



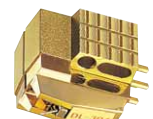
DL-110

High output
MC cartridge



DL-160

High output
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.

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 / S-102

DVD Home Entertainment System

Network

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

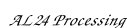
Smart Network (S-302)

- 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.



S-102





S-302



AL24 Processing



MP3



Optional speaker stands available.
For details please see page 43.

S-52DAB

Wireless Network CD Music System

Easy to get started

With S-52, 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 DAB/FM/AM radio
- Listen to your portable player
- Listen to your CDs

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, playback 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 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

*iPod not included



Smart Networking with Denon S-Series

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.

Below are some examples of how you can use S-Series to enjoy various kinds of content in the home.

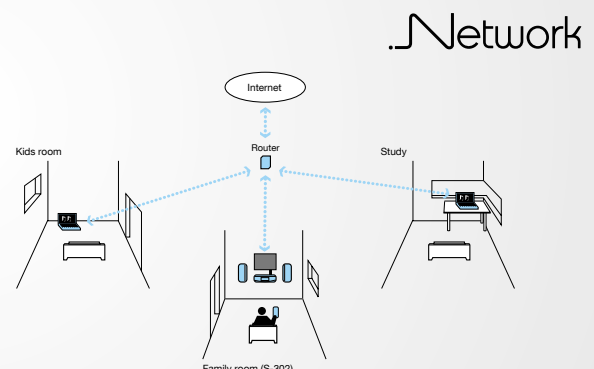
Family Room

When you set up an S-302 in the Family Room, you can enjoy 2.1-channel audio and a simple DVD home theatre with wonderful picture and sound quality. But the S-302 does even more: With its wireless network feature, you can enjoy your PC music library or internet radio programs as well.

Study Room and Kids' Room

In the Study Room, you've got a PC for work. And in your PC, you've got some jazz music files to help you relax.

In the Kids' Room, there's a PC, and there are music files in it. With the S-302 that's in the Family Room, the whole family can enjoy the children's songs in the PC, or if it's quiet time after dinner, you can enjoy music from the Study Room PC.



S-81DAB

Personal Audio System

- Plays CD/CD-R/CD-RW
- Plays MP3/WMA
- AM/FM tuner
- DAB tuner
- iPod/Portable player connectivity
- European sound tuned speakers
- D.D.L. (Denon Double Layer) cone applied
- 2-line dot matrix display



MP3

WMA

RDS

RadioTEXT



AK-P100

Connection Cable for iPod

(1 metre length)

- Optional connection cable for iPod, for S-302, S-81 and AVR-4306



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)





Specifications

A/V surround amplifiers and receivers

	AVP-A1HD	AVC-A1HD	AVR-4308	AVR-3808	AVR-2808
Power amplifier section					
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%)	110 W + 110 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)
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%)	110 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)
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%)	110 W + 110 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)
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%)	110 W + 110 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)
Preamplifier section					
Input sensitivity/ impedance	PHONO (MM): 2.5 mV/47 kohms CD, DVD, HDP, TV/CBL, SAT, VCR(iPod), DVR-1, DVR-2, EXT.IN(FL, 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.IN(FL, 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.IN(FL, 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.IN(FL, 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.IN(FL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms
FM section					
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)
AM section					
Tuning frequency range	-	-	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz
Usable sensitivity	-	-	18 µV	18 µV	18 µV
DAB section					
Tuning frequency range			BAND III 174.928 - 239.200 MHz L-BAND 1452.960 - 1490.624 MHz		
Sensitivity			-98 dBm (BAND III) -94dBm (L-BAND)		
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 420 mm
Weight			18.9 kg	17.8 kg	13.1 kg

A/V surround receivers

	AVR-2308	AVR-1908	AVR-1708	AVR-1508
Power amplifier section				
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%)	75 W + 75 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%)	75 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%)	75 W + 75 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%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Preamplifier section				
Input sensitivity/ impedance	PHONO (MM): 2.5 mV/47 kohms CD, AUX, DVD/HDP, TV/CBL, VCR(iPod), DVR, EXT.IN(FL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, AUX, EXT.IN(FL, FR, C, SW, SBL, SBR), CD, AUX, EXT.IN(FL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	CD, DVD, HDP, TV/CBL, VCR(iPod), CD-R/TAPE, DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, AUX, EXT.IN(FL, FR, C, SW, SBL, SBR), CD, AUX, EXT.IN(FL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms	CD, DVD, HDP, TV/CBL, VCR(iPod), CD-R/TAPE, DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, DVD/HDP, TV/CBL, VCR(iPod), CD-R/TAPE, CD, AUX, EXT.IN(FL, FR, C, SW, SBL, SBR), CD, AUX, EXT.IN(FL, FR, C, SW, SBL, SBR), VAUX: 200mV/47 kohms
FM section				
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)
AM section				
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	440 W	415 W	410 W
Dimensions (W x H x D)	434 x 171 x 420 mm	434 x 171 x 383 mm	434 x 171 x 383 mm	434 x 171 x 383 mm
Weight	12.6 kg	11.4 kg	11.1 kg	10.9 kg

DVD Players	DVD-3930	DVD-2930	DVD-1940	DVD-1740
Video section				
Signal system	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC
Video output (75 ohms)	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p
S-video output:				
Y Output (75 ohms)	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p
C Output (75 ohms)	0.3 Vp-p	0.3 Vp-p	0.3 Vp-p	0.3 Vp-p
RGB video output				
R Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
G Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
B Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
Component output				
Y Output Level	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p
Pb (Cb) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
Pr (Cr) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
Audio section				
Audio signal output	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)
2-ch Mixed Output	1 system	1 system	1 system	1 system
5.1-ch Discrete Output	1 system	1 system	1 system	
DVD linear audio				
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	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)	110 dB	106 dB	100 dB	100 dB
Power supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
Power consumption	80 W	80 W	15 W (standby: 0.4 W)	8 W (standby: 0.3 W)
Dimensions (W x H x D)	434 x 137 x 403 mm	430 x 102 x 386 mm	435 x 75 x 310 mm	435 x 75 x 310 mm
Weight	11.5 kg	7.6 kg	2.6 kg	2.3 kg

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

S-Series	S-52DAB
Audio Section	
Input Sensitivity/Input Impedance	200 mV/47 kΩ/ohms
Tuner Section/HD Radio section	
FM	
Frequency range	87.5 – 108.0 MHz
Effective sensitivity	1.5 µV/75 ohm (14.7 dBf)
AM	
Frequency range	522 – 1611 kHz
Effective sensitivity	20 µV
DAB tuner	
Frequency Range	BAND III 170MHz – 240MHz
General	
Power supply	AC 230V, 50 Hz
Power consumption	37W (At Standby: 0.3 W)
Dimensions (W x H x D)	380 x 126 x 226 mm
Weight	6.7 kg

Home Theatre System	DHT-FS3
Front speaker unit	
Type	
Rated output	22 W x 5 (6 ohms)
Input sensitivity 500 mV/47 kohms	500 mV/47 kohms / 250 mV/47kohms (selectable)
Frequency response	Front: 150 Hz - 20 kHz DSW: 45 Hz - 150 Hz
S/N ratio	100 dB
Power supply	AC 230 V, 50
Power consumption	ON: 32 W standby: 1W or less
Speaker units	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
Weight	4.6 kg
Subwoofer	
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
Weight	5.6 kg

S-Series	S-81DAB
Main unit	
FM section	
Frequency Range	87.5 - 108.0 MHz
AM section	
Frequency Range	522 - 1611 kHz
DAB tuner	
Frequency Range	BAND III 170MHz – 240MHz
CD player section	
Type	Single CD Player
Power supply	230 V, 50 Hz
Power consumption	43 W
Dimensions (W x H x D)	380 x 97 x 265 mm
Weight	4.1 kg
Speakers	
Type	2-way, 2-speakers, Bass reflex type, antimagnetic design
Input impedance	4 ohms
Max. allowable input	60 W (IEC), 120 W (PEAK)
Dimensions	150 (W) x 269 (H) x 190 (D) mm
Weight	3.1 kg/unit

Integrated amplifier		Integrated amplifiers				
	PMA-SA1	PMA-2000AE	PMA-1500AE	PMA-700AE	PMA-500AE	
Rated output power						
8 ohms	50 W + 50 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	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	100 W + 100 W (1 kHz, 4 ohms, THD 0.7%)	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%)	
Total harmonic distortion	0.007% (-3dB at rated output, 8Ω, 1 kHz)					
Equaliser amp output	150 mV					
Input sensitivity/impedance						
PHONO MM	2.5 mV/47 kohms	0.2 mV/100 ohms	0.2 mV/100 ohms	-	-	
BALANCED	105 mV/100 kohms	2.5 mV/47 kohms	2.5 mV/47 kohms	2.5 mV/47 kohms	2.5 mV/47 kohms	
LINE	105 mV / 47 kohms	135 mV/47 kohms	125 mV/47 kohms	105 mV/47 kohms	150 mV / 30 kohms	
RIAA deviation	PHONO MM: 20Hz - 20kHz ±0.3dB					
Signal-to-noise ratio						
PHONO MM	89 dB (5 mV input)	74 dB (0.5 mV input)	74 dB (0.5 mV input)	-	-	
BALANCED	105 dB	89 dB (5 mV input)	89 dB (5 mV input)	86 dB (5 mV input)	84 dB (5 mV input)	
LINE	105 dB	108 dB	108 dB	107 dB	105 dB	
Power supply	AC 230 V, 50 Hz					
Power consumption	230W					
Dimensions (W x H x D)	434 x 181 x 508 mm					
Weight	30 kg					
Tone control						
Treble	± 8 dB at 10 kHz	± 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	± 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	
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	310W	305 W	305 W	200 W	185 W	
Dimensions (W x H x D)	434 x 181 x 480 mm	434 x 134 x 410 mm	434 x 134 x 410 mm	434 x 121 x 337 mm	434 x 121 x 307 mm	
Weight	24.0 kg	14.6 kg	14.6 kg	7.0 kg	6.5 kg	

Tuners		
	TU-1800DAB	TU-1500AE
DAB tuner section		
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	-
FM section		
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
AM section		
Tuning frequency range	522 - 1611 kHz	522 - 1611 kHz
Usable sensitivity	18 µV	18 µV
Signal-to-noise ratio	53 dB	53 dB
Power supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz
Power consumption	14 W	10 W
Dimensions (W x H x D)	434 x 74 x 286 mm	434 x 73 x 286 mm
Weight	3.8 kg	3.6 kg

Receivers		
	DRA-700AEDAB	DRA-CX3
Power amplifier section		
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%)	75 W + 75 W (8 ohms, DIN, THD 0.07 %) 150 W + 150 W (1 kHz, 4 ohms, THD 0.7%)
Preamplifier section		
Input sensitivity/impedance	PHONO (MM) : 2.5 mV/47 kohms CD, VIDEO, TAPE 1, TAPE 2 : 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 : ±8 dB Treble 10 kHz : ±8 dB
FM section		
Tuning frequency range	87.5 - 108.0 MHz	87.5 - 108.0 MHz
Usable sensitivity	0.9 µV (10.3 dBf)	1.5 µV (10.3 dBf)
AM section		
Tuning frequency range	522 - 1611 kHz	522 - 1611 kHz
Usable sensitivity	18 µV	20 µV
DAB section		
Tuning frequency range	174.928 (5A) - 239.200 (13F) MHz (BAND III) - 1452.960 (LA) - 1490.624 (LW) MHz (L- BAND)	- -
Usable sensitivity	-97 dBm	-
Power supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz
Power consumption	245 W	105 W
Dimensions (W x H x D)	434 x 147 x 417 mm	300 x 80 x 341 mm
Weight	9.9 kg	5.5 kg

CD/Super Audio CD players						
	DCD-SA1		DCD-2000AE		DCD-1500AE	
	Super Audio CD	CD	Super Audio CD	CD	Super Audio CD	
Channels	2 channels	2 channels	2 channels	2 channels	2 channels	2 channels
Frequency response	2Hz-50kHz	2Hz-20kHz	2Hz-50kHz	2Hz-20kHz	2Hz-50kHz	2Hz-20kHz
Dynamic range	110 dB	100 dB	110 dB	100 dB	104dB	100 dB
Signal-to-noise ratio	117 dB	120 dB	113 dB	119 dB	104 dB	110 dB
Total harmonic distortion	0.001%	0.002%	0.001%	0.002%	0.001%	0.002%
Wow & flutter	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)
Output voltage : Unbalanced	2.0 V (10kΩ)	2.0 V (10kΩ)	2.0 V (10kΩ)	2.0 V (10kΩ)	2.0V (10kΩ)	2.0V (10kΩ)
: Balanced	2.0 V (10kΩ)	2.0 V (10kΩ)	-	-	-	-
Digital output : Coaxial	-	0.5 Vp-p/75Ω	-	0.5 Vp-p/75Ω	-	0.5Vp-p/75Ω
: Optical	-	-15 --21dbm	-	-15 --21 dbm	-	-15 --21dbm
: Emission wavelength	-	660nm	-	660nm	-	660nm
Digital input : Format	Digital Audio Interface (Linear PC)	-	-	-	-	-
: Coaxial	0.5 Vp-p/75Ω	-	-	-	-	-
: Optical	above -27 dBm, 660nm	-	-	-	-	-
Power supply	AC 230 V, 50 Hz		AC 230 V, 50 Hz		AC 230 V, 50 Hz	
Power consumption	35 W		20 W		16 W	
Dimensions (W x H x D)	434 x 150 x 410 mm		434 x 137 x 335 mm		434 x 135 x 331 mm	
Weight	21.8 kg		13.3 kg		7.6 kg	

CD players			CD changer
	DCD-700AE	DCD-500AE	DCM-500AE
Channels	2 channel stereo	2 channel stereo	2 channel stereo
Dynamic range	100 dB	98 dB	98 dB
Signal-to-noise ratio	110 dB	105 dB	108 dB
Total harmonic distortion	0.003%	0.003%	0.003%
Channel separation	105 dB	102 dB	98 dB
D/A converters	Advanced-Segment 24 bit type	Advanced-Segment 24 bit type	Multilevel Noise Shaping DAC
Oversampling	8 times	8 times	8 times
Power supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
Power consumption	12 W	11 W	15 W
Dimensions (W x H x D)	434 x 107 x 279 mm	434 x 100 x 285 mm	434 x 120 x 400 mm
Weight	4.2 kg	3.4 kg	6.3 kg

Super Audio CD player			Turntables	
	DCD-CX3		DP-300F	DP-29F
	Super Audio CD	CD	Belt Drive Motor	Belt Drive Motor
Channels	2 channels	2 channels	DC Servo Motor	DC Servo Motor
Frequency response	2Hz-50kHz	2Hz-20kHz	33-1/3, 45 rpm	33-1/3, 45 rpm
Dynamic range	109dB	100 dB	0.10% (WRMS)	Less than 0.15%
Signal-to-noise ratio	112 dB	118 dB	60 dB (DIN-B)	60 dB (DIN-B)
Total harmonic distortion	0.001%	0.002%		
Wow & flutter	Below measurable limits	Below measurable limits	Tonearm	
Output voltage: Unbalanced	2.0V (10kΩ)	2.0V (10kΩ)	Type	Dynamically Balance type, Straight Tonearm
Digital output : Coaxia	-	0.5Vp-p/75Ω	Cartridge	MM (DSN-82)
: Optical	-	-15 --21dbm	Type	
: Emission wavelength	-	660nm	Output Voltage	
Power supply	AC 230 V, 50 Hz		Power supply	AC 230 V, 50 Hz
Power consumption	24 W		Power consumption	2 W
Dimensions (W x H x D)	300 x 80 x 310 mm		Dimensions (W x H x D)	434 x 122 x 381 mm
Weight	7.0 kg		Weight	5.5 kg

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

Receiver		CD / HDD music system		CD player	
	DRA-F102DAB		CHR-F103		DCD-F102
Power amplifier section		Audio (LINE OUT1)		Type	2-channel, Stereo
Rated output power	35 W + 35 W (4 ohms, 1 kHz, 0.7% THD)	Type	2-channel, Stereo	Frequency response	2 Hz - 20 kHz
Preamplifier section		Frequency response	2 Hz - 20 kHz	Dynamic range	100 dB
Input sensitivity/Impedance	PHONO MM: 2.5 mV/47 kohms LINE: 300 mV/30 kohms	Dynamic range	100 dB	Signal-to-noise ratio	105 dB
	Bass: 100 Hz ±8 dB Treble: 10 kHz ±8 dB	Signal-to-noise ratio	108 dB	Power supply	230 V, 50 Hz
Tone control		CD		Power consumption	15 W
FM section		Playable format	CD-DA, WMA, MP3	Dimensions (W x H x D)	250 x 82 x 260 mm
Frequency range	87.5 - 108.0 kHz	HDD		Weight	2.9 kg
Reception sensitivity	1.5 µV (12.8 dBf)	Playable formant	WMA, MP3, AAC (M4A), LPCM		
Signal-to-noise ratio	Mono: 74 dB Stereo: 70 dB	Ripping format	WMA, LPCM		
AM section		Bitrate (WMA)	128kbps (Normal), 192kbps(HQ)		
Frequency range	522 - 1611 kHz	Song capacity	Approx. 10,000 (Normal), Approx. 7,000 (HQ)		
Reception sensitivity	20 µV		Approx. 900 (LPCM)		
DAB section		Power supply	230 V, 50 Hz		
Frequency range	BAND3 170 MHz ~ 240 MHz	Power consumption	22 W		
Reception sensitivity	-97 dBm	Dimensions (W x H x D)	250 x 110 x 268 mm		
Power supply	230 V, 50 Hz	Weight	3.9 kg		
Power consumption	85 W (less than 1 W in standby)				
Dimensions (W x H x D)	250 x 82 x 285 mm				
Weight	3.5 kg				

CD Receivers		
	RCD-M35DAB	RCD-M33
Power Amplifier Section		
Rated Output Power	22 W + 22 W (6 ohms, 1 kHz)	22 W + 22 W (6 ohms, 1 kHz)
FM Section		
Frequency Range	87.5 - 108.0 MHz	87.5 - 108.0 MHz
AM Section		
Frequency Range	522 - 1611 kHz	522 - 1611 kHz
DAB Tuner		
Frequency Range	BAND III 170MHz - V 240MHz	-
CD Player Section		
Type	Single CD Player	Single CD Player
Programming	25 tracks	25 tracks
Power supply	230 V, 50 Hz	230 V, 50 Hz
Power consumption	50 W	50 W
Dimensions (W x H x D)	210 x 95 x 328 mm	210 x 95 x 328 mm
Weight	4.3 kg	4.3 kg

Cassette deck		
	DRR-F102	DRR-M33
Heads		
Record and Playback	Hard permalloy record / playback head x 1	Hard Permalloy Record / Playback Head x 1
Erase	Double gap ferrite erase head x 1	Double Gap Ferrite Erase Head x 1
Power supply	230 V, 50 Hz	230 V, 50 Hz
Power consumption	9 W	9 W
Dimensions (W x H x D)	250 x 82 x 260 mm	210 x 95 x 325 mm
Weight	3.1 kg	3.1 kg

Speaker systems					
	SC-F102 / SC-F103	SC-M73	SC-M53	SC-CX303	SC-CX101
Type	2-way, 2-speakers	2-way, 2-speakers	2-way, 2-speakers	2-way, 2-speakers	2-way, 2-speakers
Drivers	Reflex box / Low-leakage-flux	Reflex box / Low-leakage-flux	Reflex box / Low-leakage-flux	Reflex box / Low-leakage-flux	Reflex box / Low-leakage-flux
	14 cm cone bass-mid x1	13 cm cone bass-mid x1	12 cm cone bass-mid x1	13 cm cone bass-mid x1	12 cm cone bass-mid x1
	2.5 cm dome high range x1	2.5cm dome high range x1	2.5cm dome high range x1	2.5cm soft dome high range x1	2.5cm soft dome high range x1
Frequency range	40 Hz - 40 kHz	43 Hz - 40 kHz	45 Hz - 40 kHz	35 Hz - 60 kHz	45 Hz - 40 kHz
Crossover frequency	3 kHz	3 kHz	3 kHz	3 kHz	3 kHz
Max. input	60 W (IEC), 120 W (PEAK)	60W (IEC), 120W (PEAK)	60W (IEC), 120W (PEAK)	100W (IEC), 200W (PEAK)	60W (IEC), 120W (PEAK)
Input impedance	6 ohms	6 ohms	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	182 x 264 x 233 mm	156 x 213 x 249 mm	141 x 191 x 249 mm	182 x 276 x 293 mm	157 x 257 x 234 mm
Weight (kg/unit)	5.0 kg	3.9 kg	3.4 kg	8.7 kg	5.2 kg

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