

DENON®

OPEN



General
Catalogue **14/15**

... to the wonderful opportunities of the new Denon 2014/2015 line-up.

We have gathered all of our expertise and innovative power to offer you everything, you would expect from Denon: the ultimate in entertainment technologies.

This year's fresh line-up bears a trait, which is both a celebration of technology and attitude: Openness. Open tells the story of our unique Denon wireless technology, but just as much allows us to outline the specific character of our products – open to innovation, open to communicate, to entertain and to connect.

Take our latest series of AVRs, for instance. Long and widely respected for setting industry standards, they are now invariably equipped with Wi-Fi and Bluetooth wireless technologies – open to play and entertain better than ever.

This year also shows the continuation of Denon TV solutions, a category, which naturally embraces our expertise of home cinema. In addition, the segment of computer audio marks a significant novelty – with the DA-300USB to name one.

Don't stop discovering here – take a glimpse (and as soon as you can: a listen!) to a set of new innovations from the open house of Denon. We hope you enjoy what we have designed for you.

**Take care,
The people at Denon**

OPEN YOUR MIND...



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#01



**OPEN UP
A NEW
CHAPTER IN
HOME ENTERTAINMENT**

For many, Denon and AVR virtuosity go together like cinema and popcorn.

Being home to some of the most appraised Audio Video Receivers of the last decades, Denon has never lost track of keeping our flagships on the forefront of technical development.

Consequently, the incredible new sound format Dolby Atmos has boarded our AVRs, accompanied by another significant prove: 4k 60 Hz full rate processing with 4:4:4 colour resolution.

Additionally, this year's line-up is the first ever to invariably offer wireless functionalities. Easily connect to your home Wi-Fi network, stream your favourite music from any Bluetooth device, play your sounds in multiple zones or simply enjoy the enormous power of a home cinema experience built by the masters of AVRs.

**We bring the cinema,
you bring the popcorn. Deal?**

NMENT.

UNRIVALED NOW UNWIRED.

The new Denon AVRs.

There's no single reason that makes us your number 1 choice for Audio-Video-Receivers there are plenty.

All new components of our line-up are equipped with Bluetooth functionality, letting you stream your favourite tunes from your mobile phone, tablet or pc.

Also, you will find the ultimate in Wi-Fi technologies on board of all these components. Thanks to the moveable dual Wi-Fi antennas of each device, optimal reception is guaranteed. And finally the range is capable of Wi-Fi sharing for iOS by cable and wireless.

Looking at the genuine AVR traits, the ISF certification lets you calibrate and integrate the AVRs picture quality. Available for AVR-X2100W and up, it makes sure you get a visual experience that's nothing short of flawless.

With the latest and future-proof HDMI specification and 4k 60Hz full rate

technology as standard equipment, the Denon AVRs offer compatibility with the next generation sources and displays. That's nothing less than the maximum in picture quality available at the moment.

Your ears will be treated, too: thanks to the groundbreaking Dolby Atmos Sound Format, you will be able to enjoy 3D sound – imagine this going along with visual 3D, and you can guess the quality level of the AV experience that is awaiting you.

With the dedicated AVR app for phone and tablet, handling these entertainment centres becomes even more comfortable. And the patented Denon smart Eco Mode allows you to customise settings and to save up to 50% of energy during operation without sacrificing on performance.

Last not least, the components' overall design has been embellished. The new premium hairline finish of the front panel creates an appearance that's worthy gracing your home cinema's interior.

Enough said. Have a look.





AVR-4520

9.2 CHANNEL INTEGRATED NETWORK RECEIVER

If you could wish for an AVR that excels in literally every aspect – the AVR-4520 would be the answer. Needless to say that this flagship features the complete set of network functionalities. And with its 9 discrete channels delivering 210 W each, the power amplifier speaks for itself. The lavish 11.2 channel processing capability in conjunction with Audyssey DSX, DTS Neo:X, 4k video processing and i/p scaling, high resolution audio playback and Advanced AL32 Processing multi-channel will give you an home entertainment surround experience that is unsurpassed.

11.2 channel Processing capability for Audyssey DSX and DTS Neo:X // 9 ch amplifier with discrete, monolithic construction // 210 W per channel // DDSC-HD32 with Denon Link HD, Clock Jitter Reducer // Advanced AL32 Processing multi-channel / 192kHz DAC for high resolution audio playback // Audyssey MultEQ XT32 / LFC, 2 independent subwoofers // 6+1 (front) HDMI inputs with 3D and 4k video support // Triple HDMI output - Dual HDMI plus additional HDMI Zone output // 4k video upscaling and pass through // InstaPrevue // Network features incl. Internet radio, DLNA music streaming, Spotify*, AirPlay // HD Audio streaming with Gapless support // Ethernet HUB – 4 ports // Setup Assistant and Advanced GUI for easy set-up and operation // Denon Remote App for iOS and Android // Available in premium silver and black // * This feature is not available in all countries





9.2 CHANNEL INTEGRATED NETWORK RECEIVER

AVR-X5200W

Introducing a big fish from our all-new X-Series: the AVR-X5200W is a powerful 9 channel amplifier with 11.2 channel processing and 13.2 preout. A discrete monolithic amplifier with custom made DHCT (Denon High Current Transistors), to be precise. With dual Wi-Fi antenna and Bluetooth built-in, it is perfectly set for all wireless services. Hence its native support for Spotify Connect, gapless playback capability and DSD streaming round up the immaculate network experience. Via its 8 HDMI inputs (including one on the front panel) it handles 4k 60Hz pass through playfully, 4k 60Hz scaling? Check. 1080p upscaling? Check. Now add Dolby Atmos, triple HDMI outputs with multi-source/multi-zone functionality and integrated Audyssey MultEQ XT32/LFC to guarantee the ideal calibration of your setup and you understand the "big" in fish.

9 ch amplifier with discrete, monolithic amp construction // 205 W per channel // Dolby Atmos // DDSC-HD with AL24 Processing Plus // 11.2 processing and 13.2 preout // Wi-Fi (dual antenna) and Bluetooth built in // Latest HDMI with 4k 60Hz pass through // 4K 60Hz Scaling and 1080p Scaling // 7+1 (front) HDMI inputs with 3D support, HDMI out with ARC // 3 HDMI outputs (Monitor1/2, Zone2), ISFccc Certification/Calib. // Networking: AirPlay, Internet Radio, Spotify Connect*, HD Audio, DSD streaming, Gapless and DLNA 1.5 // 3-zone/3-source via Amplified zone and Zone2/3 Preout // Audyssey MultEQ XT32 speaker calibration, Audyssey DSX, DTS Neo:X 11.1 // Setup Assistant and 9 language GUI for easy set-up and operation // Smart ECO mode // 4 Quick Selects Plus buttons Remote/Front // Denon Remote App for iOS and Android // Available in premium silver and black //

* This feature is not available in all countries.









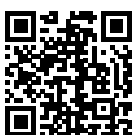














AVR-X4100W

7.2 CHANNEL INTEGRATED NETWORK RECEIVER

Meet this passionately designed component with Wi-Fi dual antenna and Bluetooth built-in. The amplifier section contains 7 channels with 9.2 processing and 13.2 preout. Enjoy Dolby Atmos for immaculate audio, Spotify Connect support and DSD streaming. All 8 HDMI inputs are capable of handling 4k 60Hz pass through. And the AVR-X4100W also counts 4k 60Hz scaling and 1080p upscaling to its qualities. Amongst plenty more, that is.

7 ch amplifier with discrete construction // 200 W per channel // Dolby Atmos // DDSC-HD with AL24 Processing Plus // 9.2 processing and 13.2 preout // Wi-Fi (dual antenna) and Bluetooth built in // Latest HDMI with 4k 60Hz pass through // 4K 60Hz Scaling and 1080p Scaling // 7+1 (front) HDMI inputs with 3D support, HDMI out with ARC // 3 HDMI outputs (Monitor1/2, Zone2), ISFccc Certification/Calib. // Networking: AirPlay, Internet Radio, Spotify Connect*, HD Audio, DSD streaming, Gapless and DLNA 1.5 // 3-zone/3-source via Amplified zone and Zone2/3 Preout // Audyssey MultEQ XT32/LFC speaker calibration, Audyssey DSX, DTS Neo:X 9.1 // Setup Assistant and 9 language GUI for easy set-up and operation // Smart ECO mode // 4 Quick Selects Plus buttons Remote/Front // Denon Remote App for iOS and Android // Available in premium silver and black // * This feature is not available in all countries.





7.2 CHANNEL INTEGRATED NETWORK RECEIVER

AVR-X3100W

Being the network player it is, the AVR-X3100W puts its dual Wi-Fi antenna and built-in Bluetooth at your service. With AirPlay, Spotify Connect and Gapless HD Audio streaming featured, it invites you to enjoy everything that network has to offer. Command 7 + 1 inputs of the latest HDMI specification with 4k 60Hz pass through as well as 4k 60Hz scaling and 1080p upscaling.

7 ch amplifier with discrete construction // 180 W per channel // Wi-Fi (dual antenna) and Bluetooth built in // Latest HDMI with 4k 60Hz pass through // 4K 60Hz Scaling and 1080p Scaling // 7+1 (front) HDMI inputs with 3D support, HDMI out with ARC // 2 HDMI outputs (Monitor, Zone2), ISFccc Certification/Calib. // Networking: AirPlay, Internet Radio, Spotify Connect*, HD Audio, DSD streaming, Gapless and DLNA 1.5 // 2-zone/2-source via Amplified zone and Zone2 Preout // Front USB input: iPod / iPhone digital compatible // 7.2 Preout // Audyssey MultEQ XT speaker calibration, Audyssey DSX, DTS Neo:X 7.1 // Setup Assistant and 9 language GUI for easy set-up and operation // Smart ECO mode // 4 Quick Selects Plus buttons Remote/Front // Denon Remote App for iOS and Android // Available in black // * This feature is not available in all countries.





AVR-X2100W

7.2 CHANNEL INTEGRATED NETWORK RECEIVER

Bearing dual Wi-Fi antenna and Bluetooth functionality like all AVRs, the AVR-X2100W comes with an impressive amplifier section of 7 x 150 Watts. Also on board: Spotify Connect, DSD streaming capability and the latest HDMI technology with 4k 60Hz pass through.

7 ch amplifier with discrete construction // 150 W per channel // Wi-Fi (dual antenna) and Bluetooth built in // Latest HDMI with 4k 60Hz pass through // 4K 30Hz Scaling and 1080p Scaling // 7+1 (front) HDMI inputs with 3D support, HDMI out with ARC // 2 HDMI outputs, ISFccc Certification/Calib. // Networking: AirPlay, Internet Radio, Spotify Connect*, HD Audio, DSD streaming, Gapless and DLNA 1.5 // 2-zone/2-source via Amplified zone // Front USB input: iPod / iPhone digital compatible // 2 Subwoofer Preout // Audyssey MultEQ XT speaker calibration // Setup Assistant and 9 language GUI for easy set-up and operation // Smart ECO mode // 4 Quick Selects Plus buttons Remote/Front // Denon Remote App for iOS and Android // Available in black // * This feature is not available in all countries.





7.2 CHANNEL INTEGRATED NETWORK RECEIVER

AVR-X1100W

The AVR-X1100W comes with 7 fully discrete channels delivering 145 Watts of power each, network functionalities including AirPlay, Spotify Connect and DSD streaming amongst others and with two of its six HDMI inputs ready to handle 4k 60Hz pass through.

7 ch amplifier with discrete construction // 145 W per channel // Wi-Fi (dual antenna) and Bluetooth built in // Latest HDMI with 4k 60Hz pass through (2 inputs) // 5+1 (front) HDMI inputs with 3D support, HDMI out with ARC // Networking: AirPlay, Internet Radio, Spotify Connect*, HD Audio, DSD streaming, Gapless and DLNA 1.5 // 2-zone/2-source via Amplified zone // Front USB input: iPod / iPhone digital compatible // 2 Subwoofer Preout // Audyssey MultiEQ XT speaker calibration // Setup Assistant and 9 language GUI for easy set-up and operation // Smart ECO mode // 4 Quick Selects Plus buttons Remote/Front // Denon Remote App for iOS and Android // Available in black // * This feature is not available in all countries.





AVR-X1000

5.2 CHANNEL INTEGRATED NETWORK RECEIVER

The AVR-X1000 contains a 5 channel power amplifier with 145 Watts output per channel. Network functionalities include AirPlay and Spotify, DLNA music streaming and Internet radio, amongst others.

5 ch amplifier with discrete construction // 145 W per channel // 4+1 (front) HDMI inputs with 3D support, HDMI out with ARC // Network features incl. Internet radio, DLNA music streaming, Spotify*, AirPlay // HD Audio streaming with Gapless support // Front USB input: iPod / iPhone digital compatible // 2 x optical digital inputs // Audyssey MultEQ XT speaker calibration // Setup Assistant and 9 language GUI for easy set-up and operation // 2knob front design // Denon Remote App for iOS and Android // Available in black // * This feature is not available in all countries.



AVR-X500

AV SURROUND RECEIVER

The AVR-X500 may be our entry model, but it nevertheless contains the full Denon AVR quality components. It lets you transform your home into a home cinema thanks to Dolby TrueHD and other dedicated technologies.

5 ch power amplifier // 140 W per channel // High quality discrete power amplifier for powerful sound // Dolby TrueHD and DTS-HD Master Audio Decoders // 3+1 (front) HDMI inputs with 3D // 2x optical digital inputs // Easy operation by quick Select buttons, large character display and GUI // Auto Power Off and low standby power consumption // Available in black



#02

Be sure to pair your Denon AVR with one of our critically acclaimed Universal Disc Transporters.

Not only do these spinning marvels read and play many different formats, they will also win you over with their characteristic high-end Denon build. Massive quality materials create a tangible value while the technology inside delivers the most splendid playback of entertainment.

Additionally, the DBT-3313UD bears a feature that is unique: In conjunction with the AVR-4520, the AVR-X5200W and the AVR-X4100W, the patented Denon Link comes into full effect. This digital technology drives the synchronisation of the components' clocks' signals so close to perfection, that jitter effects are practically extinguished.

OPEN UP A BRAVE NEW WORLD.





DBT-3313UD

UNIVERSAL DISC TRANSPORTER

This universal disc player flawlessly plays Blu-ray, DVD, CD, Super Audio CD and DVD Audio. Whether it's for the dual HDMI output or the pure direct mode, for the fully shielded fast loading Denon Suppress Vibration Hybrid mechanism or the massive quality build – choosing a DBT-3313UD means choosing the best player you have ever owned. Ask the owners.

Universal Blu-ray Disc Transport that also plays DVD, CD, Super Audio CD and DVD-Audio // Denon Link HD for high class digital transmission // Dual HDMI output and Pure Direct mode // Fully shielded fast loading Denon S.V.H. (Suppress Vibration Hybrid)- mechanism // 4 independent block construction, for faithful playback of audio and video signals // Rigid chassis with double layer top and bottom plate // No fan construction for silent operation // DLNA support for Network streaming (audio / video / photo) // YouTube Leanback streaming and Netflix* video on demand support // Support for DivX Plus HD // Available in black and premium silver // * This feature is not available in all countries.



DBT-1713UD

UNIVERSAL DISC TRANSPORTER

Not only does this player share the talent to spin a multitude of formats – thanks to its quick response on loading and playback, you will get to enjoy them even faster. What else? DLNA support for network streaming (audio, video, photo). Same solid build. Same Denon quality.

Universal Blu-ray Disc Transport that also plays DVD, CD, Super Audio CD and DVD-Audio // Fully shielded mechanism // Quick response at loading and playback // 4 independent block construction, for faithful playback of audio and video signals // No fan construction for silent operation // Denon's high picture quality circuitry, to visually enhance your sources // DLNA support for Network streaming (audio / video / photo) // YouTube Leanback streaming and Netflix* video on demand support // Support for DivX Plus HD // HDMI cable included // Available in black // * This feature is not available in all countries.





Our goal at Denon is to provide you with our unique quality entertainment technologies wherever you demand it. And so it's only natural that we have invaded a particular new ground: TV solutions.

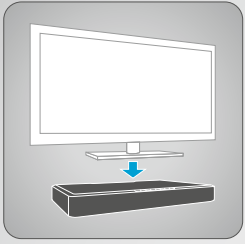
With modern TV sets becoming thinner and thinner, the depth of resonance available for decent sound reproduction becomes smaller and smaller.

Our TV solutions keep you from compromising on sound. In two different formats, they guarantee that your first class picture now finally and easily gets accompanied by the sound it deserves: genuine Denon sound, that is. Which shines when you use the devices as Bluetooth speaker, too. Yes, any Bluetooth device is connected easily and streams the music through the astoundingly impactful speakers.

After intense testing, critics around the world agree: this new Denon venture is a winner. What do you think? We invite you to have a look, then to have a listen at your trusted Denon dealer.

A blurred background of a modern interior space. In the foreground, there is a white cabinet with a metal frame. In the background, there is a window with a view of greenery and a blue chair. The overall atmosphere is bright and airy.

**OPEN TO
NEW IDEAS.**



TV SPEAKER BASE

DHT-T110

Clarity of dialogue. Depth of bass. Sharpness of highs. Vibrancy of special effects. From now on, no matter how flat your TV's body is, all of this is just one touch of a button away. The new Denon DHT-T110 is a mono piece constructed to tune your TV's audio in exactly the way it is meant to be heard. This all-in-one sound solution connects with only one cable and fits most TVs up to 50". By the way, if you can't get enough of the DHT-T110's sound, make it play your favourite songs in Denon quality: it's an impressive Bluetooth speaker, too. Easily connected to your mobile phone, tablet or PC with, you guessed it, just one touch of a button.

Great sound with easy TV connectivity // TV up to 27 kg can be placed upon the soundbase // Analogue and digital audio input // Bluetooth apt-X connectivity for portable devices // Sound mode: Dialogue, Movie & Music // Powerful sound without subwoofer due to advanced audio processing // Acquires codes from existing TV remote // Simple remote included for ease of use // Available in Black





DHT-S514

SOUNDBAR

Now that's a different ball game: the DHT-S514 soundbar and its freely positionable wireless subwoofer will dramatically improve your TV experience. Not just when it comes to sports, but also in movies, games, news programmes, music, whatever. Enjoy rich, room-filling sound across the complete sound range: the deep and dramatic bass from the wireless subwoofer, the clear mids and detailed highs from the multi-driver high fidelity soundbar. Amplified with an overall 175 Watts of system power, ready to make your room shake – if you want to. Because the crisp sound certainly works just as well in low volume levels. Dolby Digital and DTS decoding, HDMI inputs and a dedicated night mode to prevent sudden raise in volume – what else could you ask for? Oh right: for a Bluetooth speaker functionality. We have included something above standard here, too: thanks to aptX you can stream from any Bluetooth device such as phone, tablet or PC and enjoy your favourite tunes in CD-quality. Sounds good? You bet it does.

Elegant soundbar with powerful, wireless subwoofer // High quality soundbar designed for use with TVs that are 42" or more // Wall and rack mountable (height adjustable feet) // HDMI input and output with ARC, analogue and digital audio input // Bluetooth apt-X connectivity for portable devices // Sound mode: Dialogue, Movie & Music // Acquires codes from existing TV remote // Simple remote included for ease of use // Available in Black



Hi-Fi is the DNA of the Denon brand. Creating ways to reproduce sound in the exact way the artist intended – this has always been the goal in our ongoing quest to develop the ultimate stereo components.

This year, we are happy to introduce you to a world premiere, moving to the next level of refinement: the first-ever commercial use Digital Audio Converter worthy of our name.

As more and more music lovers consider their personal computer or laptop as their principal audio source, they find that the sound quality they're getting doesn't come even close to the level of a premium component music system.

Following last year's successful introduction of the SA-CD players DCD-1520AE and DCD-2020AE, both equipped with the highly effective USB-DAC functionality, we have built on this know-how to develop our newest stand-alone Digital Audio Converters.

The first-ever single High Resolution digital/analog converters from Denon serve to dramatically improve the sound quality from digital "non-packaged" sources such as computers (including internet sources such as Spotify, Youtube etc.), network attached storage and others.

With the DA-300USB for home usage and the DA-10, a dedicated headphone sound converter, we have opened two new ways of creating what's so precious to you: a truly natural and precise sound experience.

Are you ready to experience the best digital age Hi-Fi sound ever? Please enter.



**OPEN
ULTIM
REFIN**

A modern, minimalist living room with a black leather chair and a white cabinet holding two hi-fi components. The room is brightly lit, with a large window in the background. The floor is a light-colored, polished material. The overall aesthetic is clean and contemporary.

TO ATE EMENT.



HIGH RESOLUTION D/A CONVERTER

DA-300USB

Crown your digitally stored or streamed sounds and listen to them in High-Fidelity quality. Denon's DA-300USB D/A combination converter and headphone amplifier elevates computer-sourced digital audio tracks to purist audiophile levels, delivering superb sound quality without compromise. Equipped with a range of advanced digital technologies, the DA-300USB connects via asynchronous USB to the computer and features the ability to decode both PCM (traditional digital audio format) and DSD (Direct Stream Digital - the advanced digital audio format of SACD). For connection to other digital audio sources, the DA-300USB also features three digital audio inputs - two optical and one coaxial. Featuring audiophile grade construction with highest quality component parts and circuit design, the DA-300USB delivers a level of sound quality on par with Denon's highly praised universal disc players.

USB-DAC with USB-B, 1x coaxial and 2x optical input // Advanced AL32 Processing + Ultra Precision 192 kHz / 32-bit D/A Converter // USB-B works in asynchronous mode and supports ASIO and WASAPI // DSD2.8 and DSD5.6 native support by DoP (DSD over PCM) // SPDIF input (optical/coaxial) up to 192/24 for upgrading other equipment // DAC Master Design with independent crystal for 44.1 and 48 kHz // High quality fixed level analogue output for direct connection to a Hi-Fi system // High quality headphone output with volume control // Horizontal and vertical placement - display rotates automatically // Available in Silver

PCM & DSD ▶  USB-B  DIGITAL INPUT ADVANCED AL32 PROCESSING  32-bit 192kHz DAC





DA-10

PORTABLE D/A CONVERTER

A new world of sound quality – that fits in the palm of your hand: The Denon DA-10 is a sound quality marvel, developed for outdoor and indoor usage alike. When on your ways, you can now boost the sound quality of smartphones, laptops and alike. The DA-10 takes the audio signal from your mobile device and by means of digital to analogue conversion, dramatically improves the audio stages. It also allows you to drive higher quality headphones effortlessly. In addition, the DA-10 makes your analogue home Hi-Fi system digitally compatible – you can now enjoy all your stored digital music in best audio quality. Despite its size, it delivers Denon High Quality Sound thanks to the integrated Advanced AL32 Processing. It emits High Resolution audio up to 192kHz/24bit, comes with DSD 2.8 and 5.6 capability and thus delivers a new level of sound quality from any source. For all your connection needs, USB-A, USB-B micro and AUX input are integrated.

Smartphone size portable DAC // High quality headphone amplifier with volume control // Gain switch to operate with different type of HPs easily // Best Denon Audio quality for Smartphone, Tablet via USB-A and analogue input // Ultra Precision 192 kHz / 32-bit D/A Converter PCM1795 // Advanced AL32 processing // USB Micro-B input for direct connectivity to a computer // High Resolution Audio support up to 192/24 and DSD2.8 & 5.6 // Asynchronous mode and support of ASIO and WASAPI // Fixed analogue output mode to upgrade existing Hi-Fi system // Mini Jack (AUX) analogue input for Android device or portable device // Rechargeable battery lifetime up to 8h // Gold plated HP Jack // Aluminium body (Premium Silver)



PCM & DSD → **micro USB-B**

ADVANCED AL32 PROCESSING





CD/SACD PLAYER WITH USB-DAC

DCD-2020AE

Or how about a D/A converter that is already embedded in a fine Hi-Fi component? The DCD-2020AE is a masterpiece of sound technology, offering ultimate quality not just from CD or SACD, but also straight from your computer. Thanks to 192kHz / 32-bit conversion and furthermore features like its Advanced AL32 processor, it guarantees a high resolution treat to fastidious ears, no matter what source you choose to play from.

Advanced AL32 Processing + Ultra Precision 192 kHz / 32-bit D/A Converter // DAC Master Clock Circuit Design to suppress jitter and noise // Direct Mechanical Ground Construction to minimize unwanted vibration // Carefully designed construction, minimum signal paths and selected Hi-Fi parts to preserve audio signal purity // Original drive mechanism, the heart of Denon's digital Disc playback technology, with S.V.H. (Suppress Vibration Hybrid) loader // Engineering concept of complete separation of digital and analogue circuits // Pure Direct Mode // Front USB input: iPod / iPhone digital compatible // Rear USB-B input: asynchronous mode and 192 kHz / 24-bit capable for direct PC audio streaming // SPDIF input (optical/coaxial) for upgrading other equipment // Available in premium silver

ADVANCED AL32 PROCESSING



MP3 WMA



INTEGRATED AMPLIFIER

PMA-2020AE

The top of the range amplifier by a top of the range brand: The PMA-2020AE is an Ultra High Current amplifier for the uncompromising music connoisseur. The massive construction comes in a yet delicate and precise design. Its chassis consists of 6 independent blocks, and the main transformer has separate power supplies for analogue and digital circuits.

Advanced Ultra High Current (UHC)-MOS Single-Push-Pull Circuit Power Amplifier // 2 x 160 W (4 ohm) output // Direct Mechanical Ground Construction to minimize unwanted vibration // Chassis construction with 6 independent blocks to eliminate noises // Leakage-cancelling-mounted twin transformers // Main transformer with separate power supplies for analogue and digital circuits // Wider dynamic range playback, supporting a high-grade audio sources // High-grade volume control for precise adjustment // Microprocessor stop mode, for higher sound quality // High performance MM & MC Phono Equalizer Amp // System remote control unit to control CD player but also amplifier and network player // Available in premium silver

ADVANCED Ultra High Current MOS SINGLE PUSH-PULL CIRCUIT

SLDC SIGNAL LEVEL DIVIDED CONSTRUCTION



DCD-1520AE

CD/SACD PLAYER WITH USB-DAC

Thanks to the integrated D/A converter, the DCD-1520AE now adds ultra high resolution audio playback directly from digital sources to its bundle of qualities. SA-CD, CD or USB sources round up the versatile capabilities. All signals pass through Denon's Advanced AL32 Processing and high dynamic 192 kHz / 32-bit D/A converter. That's just so DCD-1520AE, isn't it?

SA-CD, CD playback (MP3, WMA, AAC, WAV support) // Advanced AL32 Processing and high dynamic 192 kHz / 32-bit D/A Converter // DAC mode incl. Asynchronous USB-B and opt. / coax digital in // DSD native support (DoP) // DAC master clock design, to suppress jitter and noise // Power section with digital and analog circuitry isolate from transformer coils // Precision Direct Mechanical Ground Construction, to thoroughly suppress vibration // Denon S.V.H. (Suppress Vibration Hybrid)- mechanism // Front USB input: Made for iPod / iPhone // System remote control unit to control CD player but also amplifier and network player // Available in premium silver and black

ADVANCED *AL32* PROCESSING   MP3 WMA   

PCM & DSD  USB-B

PMA-1520AE

INTEGRATED AMPLIFIER

With an Advanced Ultra-High Current (UHC)-MOS Single Push-Pull Circuit delivering 140 W x 2, the PMA-1520AE produces utterly transparent and detailed sound. Combined with the perfectly fitted DCD-1520AE, it embodies the essence of stereo.

Advanced Ultra-High Current (UHC)-MOS Single Push-Pull Circuit with 2 x 140 W (4 ohm) // High-current, dynamic power supply, to support high speed and large current flow // Direct Mechanical Ground Construction to minimise unwanted vibration // Leakage-cancelling-mounted twin transformers // Shottky diodes and selected parts // High-grade volume control for precise adjustment // Solid heat sink to suppress vibration caused by resonance point // Microprocessor Stop Mode // Gold-plated speaker terminals // High-performance phono equaliser // Available in black and premium silver

ADVANCED *Ultra High Current MOS*  



CD-PLAYER

DCD-720AE

Packed with Denon premium technology including AL32 Processing for crystal clear and detailed sound, this player is truly focussed on immaculate playback of CDs. But it allows you to easily connect to any USB source or iDevice using the integrated USB functionality.

AL32 Processing and high-precision 32-bit / 192 kHz D/A converter // DAC-Master Clock design // Pure Direct mode to preserve audio signal purity // Thoroughly vibration-resistant design with Direct Mechanical Ground Construction // Carefully designed construction to preserve audio signal purity // Strictly selected parts for high sound quality // Front USB input: iPod / iPhone digital compatible // MP3/WMA playback (USB, CD-R/RW) // Aluminium panel design, befitting the elegance of an audio component // System remote control unit to control CD player but also amplifier and network player // Available in black and premium silver

AL32 PROCESSING

MP3 WMA

INTEGRATED AMPLIFIER

PMA-720AE

King of the mid-range: with the PMA-720AE you own a solidly and thoroughly constructed amplifier bearing all core elements of the Denon Hi-Fi development department. To name but one, its high-speed, high-capacity power supply ensures steady performance.

Advanced High Current (HC) Single-Push-Pull Circuit with 2 x 85 W (4 ohm) to balance musical detail and power // Wide dynamic range playback, supporting high-grade audio sources // Main transformer with separate power supplies for audio and control circuits // Microprocessor stop mode, for higher sound quality // Thoroughly vibration-resistant design with Direct Mechanical Ground Construction // 2 pair of high quality speaker terminals and Headphone jack // Phono Equalizer Amp (MM), for connecting an analogue record player // PRE OUT jack, for future upgrades // System remote control unit to control CD player but also amplifier and network player // Aluminium panel design, befitting the elegance of an audio component // Available in black and premium silver

ADVANCED
High Current
SINGLE PUSH-PULL CIRCUIT

SLDC
SERIAL LEVEL EMBED CONSTRUCTION



DCD-520AE

CD-PLAYER

This entry model CD-Player is a genius, too – offering a D/A converter which is capable of delivering 192 kHz / 32-bit sound.

32-bit / 192 kHz D/A converter // DAC-Master Clock design // CD-R/CD-RW playback (MP3, WMA) // Thoroughly vibration-resistant design with Direct Mechanical Ground Construction // Carefully designed construction to preserve audio signal purity // Minimum signal path design // Strictly selected parts for high sound quality // Folder Mode function, for playing only files stored in specific folders // Aluminium panel design, befitting the elegance of an audio component // System remote control unit to control CD player but also amplifier and network player // Available in black and premium silver



PMA-520AE

INTEGRATED AMPLIFIER

Built to be the perfect match for the CD-Player of the same name, this classy and solidly constructed amplifier delivers all the basic features and techniques it requires to create the renown Denon sound.

Advanced High Current (HC) Single-Push-Pull Circuit with 2 x 70 W (4 ohm) to balance musical detail and power // Wide dynamic range playback, supporting high-grade audio sources // Main transformer with separate power supplies for analogue and digital circuits // Microprocessor stop mode for higher sound quality // Thoroughly vibration-resistant design with Direct Mechanical Ground Construction // 1 pair of high quality speaker terminals // Phono Equalizer Amp (MM), for connecting an analogue record player // Headphone jack // Eco friendly with Less than 0.3 W at stand-by and auto power off // Aluminium panel design, befitting the elegance of an audio component // Available in black and premium silver





NETWORK AUDIO PLAYER

DNP-730AE

Expand your existing Hi-Fi system and unlock the power of network. The Denon DNP-730AE easily connects your Hi-Fi surrounding to the virtues of Spotify Connect, Internet radio and other streaming formats. When delivering its Wi-Fi capabilities, the two diversity antennas guarantee for an even more reliable connection. Like any Denon, it bears qualities above average: DLNA 1.5 network audio streaming, DSD, FLAC HD, ALAC support, AirPlay wireless streaming and more. All of these processed via a 192 kHz / 32-bit D/A converter plus jitter reducer.

DLNA1.5 network audio streaming inclusive high resolution DSD // High quality 192kHz/32bit DAC plus Jitter Reducer // DSD, FLAC HD, WAV, AIFF, ALAC and Gapless playback // Spotify Connect, Internet Radio and AirPlay for wireless streaming from iDevice // Front USB input for iPhone/iPod and USB memory // WiFi (b/g/n) built in with WiFi Sharing for iOS device and WPS for easy setup // WMM (WiFi Multimedia) // Denon Remote App for iOS and Android plus REMOTE CONTROL terminal for AMP/CD control // High contrast 3 line OLED display // Available in Premium Silver and Black





DP-300F

TURNTABLE

Rediscover your old favourites or simply indulge in your love to vinyl with this high-precision turntable.

High-precision diecast aluminium turntable // Refined external design with a gloss coating // Fully automatic system for easy operation // Straight tone arm to bring out the maximum performance of cartridges with superior tracing capabilities // Includes high-grade MM cartridge // Built-in phono equaliser // Manual arm lifter // Replaceable cartridge (4.5 - 9.5 g) // Dedicated shell // Available in black and premium silver // This model is not necessarily sold in all regions. Please contact a nearby Denon authorised dealer for details and availability.



DP-200USB

TURNTABLE

This time machine lets you convert tracks from vinyl to digital audio files via its built-in USB functionality.

Import tracks from analogue records to USB memory without a PC // Includes PC software for editing tracks // High-precision diecast aluminium turntable // Automated system for easy operation // Built-in phono equalizer // Available in black and premium silver // This model is not necessarily sold in all regions. Please contact a nearby Denon authorised dealer for details and availability.



DP-29F

TURNTABLE

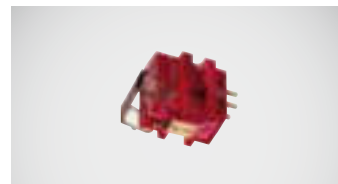
Pure and clear – when you look for a basic turntable, better choose this Denon.

High-precision diecast aluminium turntable // Automated system for easy operation // Built-in phono equaliser // Available in premium silver // This model is not necessarily sold in all regions. Please contact a nearby Denon authorised dealer for details and availability



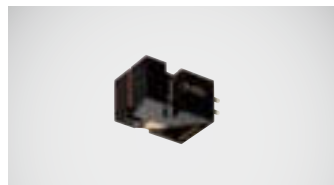
DL-103

MC CARTRIDGE



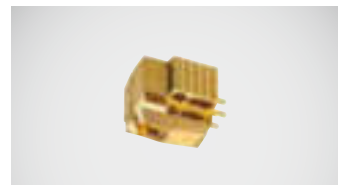
DL-110

**HIGH OUTPUT
MC CARTRIDGE**



DL-103R

MC CARTRIDGE



DL-304

MC CARTRIDGE

Cartridges are not available in all countries. For details, please contact the authorized dealer on the back of this catalogue.



MINI SYSTEM

D-F109 / D-F109DAB*

Serious Hi-Fi in a compact body: Don't judge the D-F109 by its size. Fully digital sound engineering makes this mini system a marvellous one. Embedded Ethernet and Wi-Fi functionality let you enjoy a number of benefits from AirPlay to Internet radio.

DNP-F109 NETWORK AUDIO PLAYER // Network audio player with WiFi and Ethernet connectivity // DLNA 1.5 certified for reliable audio streaming and wide compatibility // AirPlay direct music streaming from iPad, iPhone, iPod touch and iTunes library // "Play to" from WMP12 or higher // Supports WMA / MP3 / WAV / AAC / FLAC / WMA lossless (Transcode) / FLAC HD 192/24 // Internet radio by vTuner // Direct play for iPod and iPhone via rear USB // Coaxial digital and analogue output // Denon Remote App for iOS and Android // Available in black and premium silver // **DRA-F109 / DRA-F109DAB* RECEIVER** // Simple and straight circuit design // 65 W x 2 (4ohms) High Power Output // DAB/DAB+ tuner* // Coaxial digital inputs for DNP-F109 and DCD-F109 // Optical digital input for system expansion (TV or other digital gear) // 2-line front display, to easily identify broadcast stations // Easy timer setting // Newly developed remote controller // Denon Remote Connector for App control in combination with DNP-F109 // Available in black and premium silver // **DCD-F109 CD PLAYER** // Clean and pure sound // Minimum signal path // Minimum CD pick up signal path // Coaxial digital output // Front USB input: iPod / iPhone digital compatible // MP3/WMA playback (USB, CD-R/RW) // Aluminium panel design // 2-line front display, to easily identify music tracks // Denon Remote Connector for App control in combination with DNP-F109 // Available in black and premium silver // **SC-F109 SPEAKER SYSTEM** // 2-Way speaker system with 12 cm woofer and 2.5 cm soft dome tweeter // Crossover network, to separate woofer and tweeter to reproduce the smoothness of natural sound // Born from European sound design and Denon collaboration // * DAB versions and colour combinations are not necessarily sold in all regions. Please contact a nearby Denon authorised dealer for details and availability.





D-M39 / D-M39DAB*

MICRO COMPONENT SYSTEM

The D-M39 is a micro component system that has been continually evolved to meet the needs of today's audio fans. Impressive sound performance, digitally transmitted play function for iDevices and other sources via the handy front USB terminal.

D-M39 / D-M39DAB* // CD-Receiver with 30 W x 2 high power output // Digitally transmitted play function for iDevice (via USB) for best sound quality // Optical digital input for system expansion (TV or other digital gear) // DAB / DAB+ tuner built in* // UK sound-tuned for serious hi-fi quality // "Simple & Straight" circuit design for sound purity and free of coloration // Smooth, dramatic sound with negligible distortion // Robust power circuit providing stable supply of electric current // Easy timer setting // Newly developed remote controller // Available in black and premium silver // **SC-M39 SPEAKER SYSTEM** // 2-Way speaker system with 12 cm woofer and 2.5 cm soft dome tweeter // Crossover network, to separate woofer and tweeter to reproduce the smoothness of natural sound // UK sound-tuned // * DAB versions and colour combinations are not necessarily sold in all regions. // Please contact a nearby Denon authorised dealer for details and availability.



OPEN THE WORLD TO SOUND.



Happy to introduce you to a brand new member of the Denon family: The Envaya, a pretty and pretty impressive embodiment of audio happiness.

Based on the idea of providing portable Denon quality sound, this wireless music system runs on long-lasting battery, bringing colourful design and powerful music to any occasion.

#05



ENVAYA

PORTABLE PREMIUM SOUND BLUETOOTH PLAYER

This isn't your average boom box... It's a Denon, to begin with. And the Envaya™ Portable Bluetooth Speaker proves this by features: the latest Bluetooth® aptX® Low Latency streaming technology for CD-quality playback, dual 57mm drivers and a 100mm passive radiator join a suite of patented digital processing technologies, providing an extraordinary sound only the Hi-Fi specialists can come up with. Use the 10 hours battery life to play from any Bluetooth® capable source. Make use of integrated NFC pairing to easily connect devices. Oh, and style yourself happy: every Envaya™ comes with 4 grille cloths in different colours to match your mood.

Denon developed a stereo speaker system with dual 57 mm drivers and a 100 mm passive radiator that are integrated with a suite of patented digital processing technologies to provide extraordinary sound reproduction // Bluetooth® aptX® Low Latency streaming offers CD quality audio // NFC® Pairing: incredibly fast and easy Bluetooth pairing with no buttons to press (requires NFC enabled device) // Integrated Stand: squeeze and pop-out kick-stand with rubber foot for stable placement on any surface // Up to 10 hours rechargeable battery life // Quick charging (2.5 hours) // USB Mobile charging: charges mobile devices on-the-go // AUX input connects any devices with an analogue audio output // 100-240V power adapter, includes multiple plugs for use throughout the world // Dimensions (WxHxD) 10.04 x 5.55 x 1.87 inches // Weight: 2.82 lbs. // Optional carrying bag available // Available in black or white with four interchangeable grille cloth covers (Lunar, Indigo, Fandango, and Sunset)



#06



A couple of years ago now, Denon launched a network music system that caused something like a sensation: the CEOL. A beautifully designed answer to the versatile demands of modern music lovers.

In the mean time, the CEOL family has grown and some just equally pretty siblings have stepped on stage. Discover the original Freedom of Sound: The Denon CEOL Network Music Systems.

**OPEN UP
THE
NETWORK.**



NETWORK CD-RECEIVER MUSIC SYSTEM

CEOL

Say hello to the original Freedom of Sound: the next generation Denon CEOL. Sleeker than ever, this new edition's appearance already has won design awards and music lovers' hearts and ears. Powerful 2x 65 Watts immaculately boost music from all sources, such as Bluetooth, Wi-Fi. Streaming, Internet Radio, Spotify Connect, any online music basically plus additionally CD, FM, AM or whichever device you connect to its USB input. Look forward to celebrating High Resolution Audio thanks to its 192 kHz / 24-bit capability and the support of FLAC, AIFF or ALAC formats, blasting from the fully new designed dedicated speakers. Feel free to enjoy!

Award-winning Denon system audio design with 2x 65W steady power output // CD playback including WMA/MP3 (CD-R/RW) and analogue FM and AM tuner built in // DLNA1.5 network audio streaming // WiFi (b/g/n) built in with WiFi Sharing for iOS device and WPS for easy setup // Spotify Connect, Internet Radio and AirPlay // Gapless playback up to 192/24 (WAV/FLAC/AIFF/ALAC) // Bluetooth and NFC for direct wireless streaming // Full Digital Processing for best audio performance from any source // Front USB input for iPhone/iPod and USB memory // 2 digital optical input for best sound from a TV or another digital source // High quality acrylic top lid finish for an elegance appearance // Denon Remote App for convenient control via smartphone or tablet // Available in glossy black and white // **SC-N9 SPEAKER SYSTEM** // Newly designed and voiced 2-way speakers // Quality push speaker terminal // Available in glossy black and white





CEOL PICCOLO

NETWORK MUSIC SYSTEM

You could say the piccolo is pretty much a grown-up CEOL, only without CD functionality and a little smaller in size as well as in output power. In fact, it bears the traits and technical features, which made its bigger sibling so successful, bearing just about the same network skills and AirPlay and Spotify Connect and all the rest, it even comes with newly designed dedicated speakers. And yes, the CEOL piccolo too shows up with an award-winning design. So maybe you're right. But gosh – isn't it just cute?

Award-winning Denon system audio design with 2x 40W steady power output // DLNA1.5 network audio streaming // WiFi (b/g/n) built in with WiFi Sharing for iOS device and WPS for easy setup // Spotify Connect, Internet Radio and AirPlay // Gapless playback up to 192/24 (WAV/FLAC/AIFF/ALAC) // Bluetooth and NFC for direct wireless streaming // Full Digital Processing for best audio performance from any source // Front USB input for iPhone/iPod and USB memory // Digital optical input for best sound from a TV or another digital source // High quality acrylic top lid finish for an elegance appearance // Denon Remote App for convenient control via smartphone or tablet // Available in glossy black and white // **SC-N4 SPEAKER SYSTEM** // Newly designed and voiced 2-way speakers // Quality push speaker terminal // Available in glossy black and white



FREE YOUR PC SOUND.

Small Sound System. Great Sound Experience. New CEOL carino Bluetooth® & Computer Audio System.





CEOL CARINO

COMPUTER AND BT AUDIO SYSTEM

Horizontal. Vertical. Horizontal. Vertical. Horizontal. Whichever way you place it, the CEOL carino cannot but show off its undoubtedly winning design. (And that's not us saying this, it's the design-award jury's opinion.) Specifically developed to work as computer and Bluetooth® audio system, it features USB-B connection as well as Bluetooth aptX Low Latency and NFC. To keep your desk or shelf clutter-free, cable management is included. Soundwise, the carino is built to surprise: with DSP EQ processing named OptBass and OptTreble, both from a series of genuine digital Denon developments. Then again, maybe carino's great sound is not that surprising after all.

Cute, compact Computer and Bluetooth Audio System // Rear USB-B input for direct connection to PC - no driver installation required // Bluetooth aptX Low Latency and NFC for wireless connectivity with PC or smart device // Full Digital Processing Amplifier for steady output power // Tone control by DSP EQ processing (OptBass & OptTreble, Wide Sound, Auto Volume Adjust) // Subwoofer pre-out and headphone output // Touch sensitive buttons for easy control // Horizontal and vertical placement - display rotates automatically // Available in black and white // **SC-N2 SPEAKER SYSTEM** // Full range speaker + passive radiator for more bass // Dual angle positioning speaker stands // Speaker cable pre-installed for easy and quick setup // Cable management to keep desk clean // Available in black and white

PC DIRECT  USB-B  Bluetooth™  



#07

OPEN TO MOBILE EXCELLENCE.

Our proven ability of creating unique listening experiences even applies to our headphones range.

Tickling enormously detailed sound out of the smallest space is what defines a pair of Denons. Plus, they are designed to suit your life style. Be it for sports, travel or critical listening.





**WIRELESS
FREEDOM.**



AH-W150

WIRELESS FITNESS IN-EAR HEADPHONES

Denon's Exercise Freak® in-ear headphones are the ultimate, super-lightweight, sweat proof, wireless fitness headphones that perform the way you do. Listen to your favorite music & answer calls without the inconvenience of cables getting in the way of your workout. These headphones have been tested by frequent exercisers and found to be the most comfortable and provide the most secure fit. Also Included: Mesh Carrying Case with Karabiner, Micro USB cable (for charging battery), and Anti-Microbial silicon ear tips (XS, S, M, L). Further enhance your workouts by downloading the Denon Sport application, available for Apple® iPhone®, Apple® iPad®, and Android® smartphones.

Sounds Like You® // 11.5 mm drivers professionally tuned to provide a flat EQ experience // Integrated amplifier professionally tuned to heart-pounding bass to energize your workout // Bluetooth® 3.0 Wireless Connectivity with Enhanced Signal Performance // Rechargeable Battery for long workouts (up to 7 hours) // **Fits Like You** // Flexible neckband, articulating in-ear design provides superior fit // Sweat proof earpiece with built-in Denon patent-pending air cushion for extreme comfort and ventilation // Anti-microbial Ear Tips reduce build up of bacteria and provide perfect fit (XS, S, M, L) included // **Moves Like You** // Integrated controls & microphone for on-the-go use // Reflective back band for safe evening workouts // Denon Sport Smartphone Application, available for iPhone®, iPad®, or Android™ phones, Denon's integrated application suite designed for the Exercise Freak. App Includes the following functionality: Real-time GPS tracking of outdoor activities / Workout journal to keep track of your fitness goals / Integrated music player with audible pace alerts / Share your workout information with your friends via Facebook or twitter // Accessories Included: Mesh Carrying Case with Karabiner / Micro USB cable (for charging battery) / Anti-Microbial Silicon ear tips (XS, S, M, L)



Bluetooth™





OVER-EAR HEADPHONES

AH-MM400

Denon's Music Maniac™ AH-MM400 Over-Ear Headphones feature 40mm "Free-edge" drivers professionally tuned to a Flat EQ partnered with an American Walnut housing to deliver an acoustically transparent music experience. Also Included: Carrying Case, Apple Remote Cable and cable for Android or other smartphones. Further enhance your listening experience by downloading the Denon Audio Smartphone App available for download from the Apple® App Store or Google Play Store.

Real Wood Housing eliminates resonance of bass-enhanced music // Precision Aluminum construction - Tailored Headband design with a cushioned lining // Apple remote & integrated microphone (for control of Apple devices*) // Denon Audio Smartphone Application, available for iPhone, iPad, or Android phones, Denon's integrated application suite designed for the Audiophile. App Includes the following functionality: Music Player with ability to create custom playlists / Denon's Music Community - discover new artists, purchase concert tickets / TuneIn® internet radio / EQ to fine tune music stored on your smartphone to your taste. // * Some functions may vary on your device(Android™, iPod®, iPhone®, iPad®, and others) due to their functional capability.





AH-MM300

ON-EAR HEADPHONES

Denon's Music Maniac™ AH-MM300 On-Ear Headphones feature 40mm "Free-edge" drivers professionally tuned to a Flat EQ combined with a minimalist design providing an elegant listening experience on the move. Also Included: Carrying Case, Apple Remote Cable and cable for Android or other smartphones. Further enhance your listening experience by downloading the Denon Audio Smartphone App available for download from the Apple® App Store or Google Play Store.

Ceramic finished ellipsoid ear cups for smooth acoustic tones // Precision Aluminum construction with fold flat mechanism // Apple remote & integrated microphone (for control of Apple devices*) // Denon Audio Smartphone Application, available for iPhone, iPad, or Android phones, Denon's integrated application suite designed for the Audiophile. App Includes the following functionality: Music Player with ability to create custom playlists / Denon's Music Community - discover new artists, purchase concert tickets / Tuneln® internet radio / EQ to fine tune music stored on your smartphone to your taste // *Some functions may vary on your device(Android™, iPod®, iPhone®, iPad®, and others) due to their functional capability.



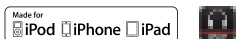


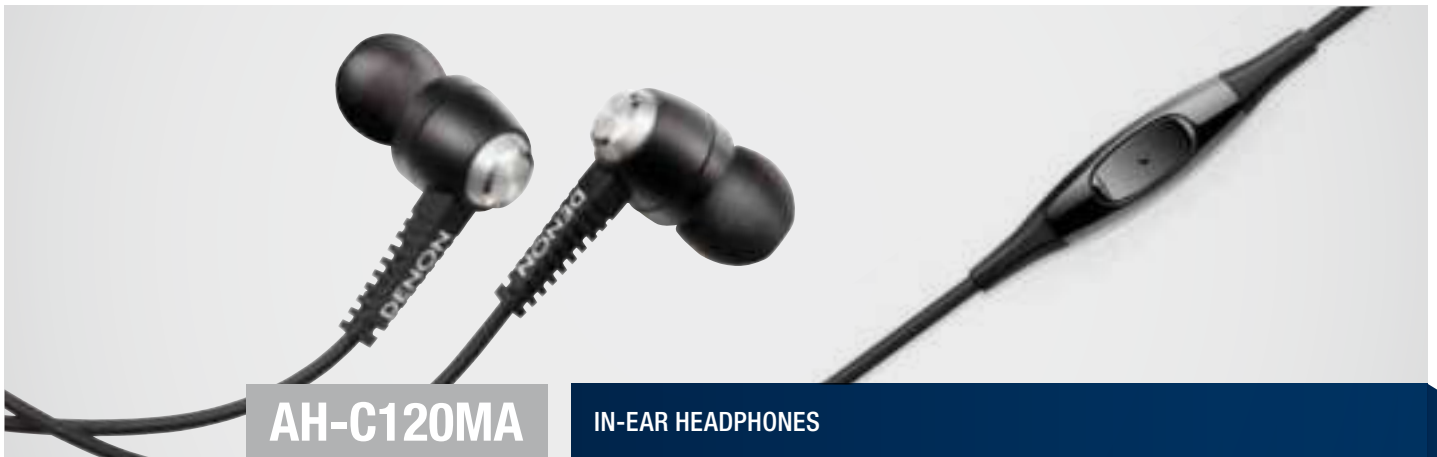
ON-EAR HEADPHONES

AH-MM200

Denon's Music Maniac™ AH-MM200 On-Ear Headphones feature 30mm drivers professionally tuned to a Flat EQ to deliver acoustically transparent music experience. Ease to carry outside because of compact and light weight. Also Included: Carrying Case, Apple Remote Cable and cable for Android or other smartphones. Further enhance your listening experience by downloading the Denon Audio Smartphone App available for download from the Apple® App Store or Google Play Store.

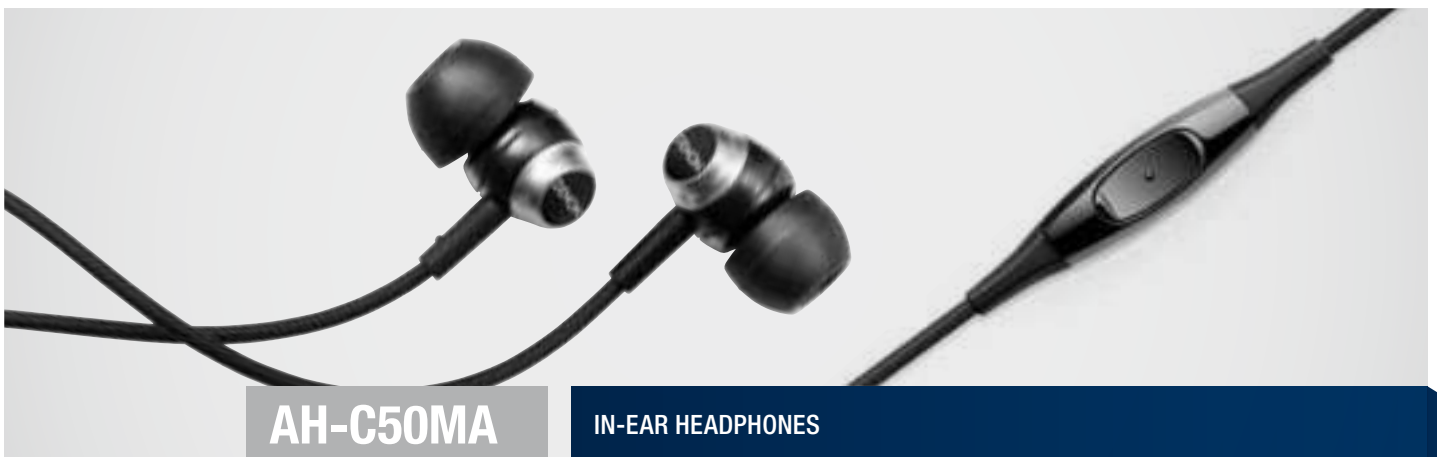
Ceramic finished ellipsoid ear cups for smooth acoustic tones // Precision Aluminum construction with folding mechanism // Apple remote & integrated microphone (for control of Apple devices*) // Denon Audio Smartphone Application, available for iPhone, iPad, or Android phones, Denon's integrated application suite designed for the Audiophile. App Includes the following functionality: Music Player with ability to create custom playlists / Denon's Music Community - discover new artists, purchase concert tickets / TuneIn® internet radio / EQ to fine tune music stored on your smartphone to your taste // * Some functions may vary on your device (Android™, iPod®, iPhone®, iPad®, and others) due to their functional capability.



**AH-C120MA****IN-EAR HEADPHONES**

Denon's Music Maniac™ AH-C120MA In-Ear Headphones feature 11.5mm drivers professionally tuned to a Flat EQ to deliver acoustically transparent music experience. Music Maniac In-Ear headphones also feature an in-line 1-button remote and microphone for easy control of select Android™ devices and other smartphones, as well as easy phone conversations for when you are on the go. Also Included: Carrying Case, Silicone Ear Tips (S, M, L), and Comply™ TX-400M Foam Ear Tips. Further enhance your listening experience by downloading the Denon Audio Smartphone App available for download from the Apple® App Store or Google Play Store.

Hybrid Metal Housing eliminates resonance of bass-enhanced music // Custom Ear Tips for a perfect fit in Silicon (S, M, L) and Comply™ Foam included // 1-button remote & integrated microphone (for control of select Android devices and other smartphones*) // Denon Audio Smartphone Application, available for iPhone, iPad, or Android phones, Denon's integrated application suite designed for the Audiophile. App Includes the following functionality: Music Player with ability to create custom playlists / Denon's Music Community - discover new artists, purchase concert tickets / TuneIn® internet radio / EQ to fine tune music stored on your smartphone to your taste // * Some functions may vary on your device (Android™, iPod®, iPhone®, iPad®, and others) due to their functional capability.

**AH-C50MA****IN-EAR HEADPHONES**

Denon's Music Maniac™ AH-C50MA In-Ear Headphones feature 9 mm drivers professionally tuned to a Flat EQ to deliver acoustically transparent music experience. Music Maniac In-Ear headphones also feature an in-line 1-button remote and microphone for easy control of select Android™ devices and other smartphones, as well as easy phone conversations for when you are on the go. Also Included: Silicone Ear Tips (XS, S, M, L). Further enhance your listening experience by downloading the Denon Audio Smartphone App available for download from the Apple® App Store or Google Play Store.

Custom Ear Tips for a perfect fit in Silicon (XS, S, M, L) included // 1-button remote & integrated microphone (for control of select Android™ devices and other smartphones*) // Denon Audio Smartphone Application, available for iPhone®, iPad®, or Android phones, Denon's integrated application suite designed for the Audiophile. App Includes the following functionality: Music Player with ability to create custom playlists / Denon's Music Community / discover new artists, purchase concert tickets / TuneIn® internet radio / EQ to fine tune music stored on your smartphone to your taste // * Some functions may vary on your device (Android™, iPod®, iPhone®, iPad®, and others) due to their functional capability.



STYLE BY THE MILE.





AH-GC20

OVER-EAR HEADPHONES WITH BLUETOOTH

Denon's AH-GC20 Over-Ear Headphones feature advanced Noise Cancelling technology and Wireless connectivity. Featuring 99% Noise Cancelling performance and best in class fitting comfort. Stable Bluetooth connectivity with Bluetooth Class-1 and the Multi-Point feature enables the connection of 2 individual devices. Voice Prompt message let you know the operating status and battery life with 8 language options. Compact design with 2 axis folding mechanism.

40mm drivers professionally optimized for 99% noise cancelling ambient noise // Wireless connectivity with CD quality music thanks to Bluetooth aptX // Metal "Spur" hanger design with fold and rotate mechanism // Memory foam ear pads // Integrated controls and microphones using cVc (Clear Voice Capture) over Bluetooth // Multi Point Bluetooth for simultaneous connection to 2 compatible devices // Cable and Airline Adaptor Included for in-flight use // Carrying Case // Micro USB Charging Cable // Audio Cable



AH-W200

IN EAR WIRELESS HEADPHONES

Enjoy magnificent sound thanks to the wireless transmission in CD quality. The AH-W200's integrated microphone guarantees unbeatable call clarity, while the wireless calling function and the integrated controls bring you the convenience and ease-of-use you've always been looking for.

Wireless with CD sound quality (Bluetooth aptX) // Integrated controls and microphone for superior mobility, ease-of-use and convenience // Comply™ TX-400M foam ear tips and Silicon ear tips (XS, S, M, L) provide advanced noise isolation and superior fit // Flexible neckband and articulating In-Ear design for superior fit // Rechargeable battery provides up to five hours listening enjoyment // Integrated amplifier // Cable included for listening to music in wired mode // Accessories: Leather travel case with karabiner, cable and airline adapter included for in flight use



INTEGRATED NETWORK & SURROUND RECEIVERS 1/2

FEATURES

	AVR-4520	AVR-X5200W	AVR-X4100W	AVR-X3100W
MULTICHANNEL SURROUND				
DTS HD Master / DTS ES / DTS 96/24	• / • / •	• / • / •	• / • / •	• / • / •
Dolby TrueHD / Dolby Digital EX / ProLogic IIz	• / • / •	• / Dolby Surround	• / Dolby Surround	• / • / •
Dolby Atmos	-	•	•	-
Audyssey DSX	•	•	•	•
DTS Neo:X	• (11ch)	• (11ch)	• (9ch)	• (7ch)
Multichannel Stereo	•	•	•	•
max. number of processing (preamp) channels	11.2	11.2	9.2	7.1
SOUND ENHANCEMENTS				
Mono Block Power Amp Construction	• (L/R separated)	•	-	-
Discrete Power Amplifier	•	•	•	•
D.D.S.C. HD Digital	• (32 bit)	•	•	-
Pure Direct	•	•	•	•
High Grade Audio Components	•	•	•	•
Gold plated RCA terminals	•	•	-	-
Clock Jitter Reducer	•	•	•	-
Alpha Processing	AL32 Processing Multichannel	AL24 Processing Plus	AL24 Processing Plus	-
Denon Link HD	•	•	•	-
Audyssey	MultEQ XT32 (PRO)	MultEQ XT32 (PRO)	MultEQ XT32 (PRO)	MultEQ XT (PRO)
Audyssey Dynamic EQ / Dynamic Volume	• / •	• / •	• / •	• / •
Audyssey LFC	•	•	•	-
Compressed Audio Restorer	•	•	•	•
NETWORK				
DLNA Certified	• (v1.5)	• (v1.5)	• (v1.5)	• (v1.5)
Lossy formats: MP3 / WMA / AAC	• / • / •	• / • / •	• / • / •	• / • / •
Lossless formats: FLAC / ALAC / WAV	• / • / •	• / • / •	• / • / •	• / • / •
DSD Audio Streaming	-	•	•	•
FLAC HD 192/24	•	•	•	•
WAV 192/24	•	•	•	•
ALAC 96/24	•	•	•	•
Gapless playback	• (FLAC, WAV)	• (FLAC, WAV)	• (FLAC, WAV)	• (FLAC, WAV)
Photo streaming (JPEG)	•	•	•	•
AirPlay audio streaming	•	•	•	•
Windows PlayTo / Windows8 certified	• / W7	• / •	• / •	• / •
Internet Radio (vTuner)	•	•	•	•
Spotify*	•	• (connect)	• (connect)	• (connect)
Compatible with Remote APP for Smart Phones	Android / iOS	Android / iOS	Android / iOS	Android / iOS
Ethernet Ports	4	•	•	•
WiFi	-	•	•	•
Bluetooth	-	•	•	•
HDMI				
HDMI inputs: back / front	6 / 1 (MHL)	7 / 1	7 / 1	7 / 1
HDMI outputs: main / zone	2 / 1	2 / 1	2 / 1	1 / 1
Video conversion Analog -> HDMI	•	•	•	•
Analogue to HDMI scaling	up to 4K	up to 4K 60/50 Hz	up to 4K 60/50 Hz	up to 4K 60/50 Hz
HDMI to HDMI scaling	up to 4K	up to 4K 60/50 Hz	up to 4K 60/50 Hz	up to 4K 60/50 Hz
GUI Overlay on HDMI	•	•	•	•
3D signal pass-through	•	•	•	•
4K signal pass-through / scaling / GUI overlay	• / • / •	• / • / •	• / • / •	• / • / •
HDMI pass-through in standby mode	•	•	•	•
Picture adjust / Noise reduction	• / •	• / •	• / •	• / •
CEC	•	•	•	•
DSD Audio capability	•	•	•	•
Audio Return Channel	•	•	•	•
Auto LipSync	•	•	•	•
MULTIROOM / CI				
Multiroom zones	4	3	3	2
Zone audio source: HDMI / opt, coax / Network, USB / analog	- / - / • / •	• (2 ch) / • (2 ch) / • / •	• (2 ch) / • (2 ch) / • / •	• (2 ch) / • (2 ch) / • / •
Zone audio output: speaker / preout	• / •	• / •	• / •	• / •
Zone HDMI output from HDMI source	•	•	•	•
IP control / RS232 control / Web control / App control	• / • / • / •	• / • / • / •	• / • / • / •	• / • / • / •
Remote In / Out	• / •	• / •	• / •	• / •
DC Trigger output	2	2	2	1
OTHERS				
Auto speaker setup by microphone	Audyssey MultEQ XT32 + PRO	Audyssey MultEQ XT32 + PRO	Audyssey MultEQ XT32 + PRO	Audyssey MultEQ XT + PRO
FL Display	2 lines	2 lines	2 lines	1 line
Graphic User Interface - GUI	Advanced	Advanced	Advanced	Advanced
ISF Certification	-	•	•	•
GUI languages	9	9	9	9
Setup Assistent	•	•	•	•
Quick Select plus / Quick Select	• / -	• / -	• / -	• / -
Variable cross over	•	•	•	•
Optimized Bass Redirection	•	•	•	•
Bass Sync	•	-	-	-
ECO Mode	-	•	•	•
Sleep Timer	•	•	•	•

* Not available in all regions.

FEATURES				
	AVR-X2100W	AVR-X1100W	AVR-X1000W	AVR-X500
MULTICHANNEL SURROUND				
DTS HD Master / DTS ES / DTS 96/24	•/•/•	•/•/•	•/-/•	•/-/•
Dolby TrueHD / Dolby Digital EX / ProLogic IIz	•/•/•	•/•/•	•/-/-	•/-/-
Dolby Atmos	-	-	-	-
Audyssey DSX	-	-	-	-
DTS Neo:X	-	-	-	-
Multichannel Stereo	•	•	•	•
max. number of processing (preamp) channels	7.1	7.1	5.1	5.1
SOUND ENHANCEMENTS				
Mono Block Power Amp Construction	-	-	-	-
Discrete Power Amplifier	•	•	•	•
D.D.S.C. HD Digital	-	-	-	-
Pure Direct	•	-	-	-
High Grade Audio Components	•	-	-	-
Gold plated RCA terminals	-	-	-	-
Clock Jitter Reducer	-	-	-	-
Alpha Processing	-	-	-	-
Denon Link HD	-	-	-	-
Audyssey	MultEQ XT	MultEQ XT	MultEQ XT	-
Audyssey Dynamic EQ / Dynamic Volume	•/•	•/•	•/•	-/-
Audyssey LFC	-	-	-	-
Compressed Audio Restorer	•	•	•	•
NETWORK				
DLNA Certified	•(v 1.5)	•(v 1.5)	•(v1.5)	-
Lossy formats: MP3 / WMA / AAC	•/•/•	•/•/•	•/•/•	-/-/-
Lossless formats: FLAC / ALAC / WAV	•/•/•	•/•/•	•/•/•	-/-/-
DSD Audio Streaming	•	•	-	-
FLAC HD 192/24	•	•	•	-
WAV 192/24	•	•	•	-
ALAC 96/24	•	•	•	-
Gapless playback	•(FLAC, WAV)	•(FLAC, WAV)	•(FLAC, WAV)	-
Photo streaming (JPEG)	•	•	•	-
AirPlay audio streaming	•	•	•	-
Windows PlayTo / Windows8 certified	•/•	•/•	•/•	-
Internet Radio (vTuner)	•	•	•	-
Spotify*	•(connect)	•(connect)	•/•	-
Compatible with Remote APP for Smart Phones	Android / iOS	Android / iOS	Android / iOS	-
Ethernet Ports	•	•	•	-
WiFi	•	•	-	-
Bluetooth	•	•	-	-
HDMI				
HDMI inputs: back / front	7 / 1	5 / 1	4 / 1	4 / 1
HDMI outputs: main / zone	2 / -	1 / -	1 / -	1 / -
Video conversion Analog -> HDMI	•	-	-	-
Analogue to HDMI scaling	up to 4K 30/25/24 Hz	-	-	-
HDMI to HDMI scaling	up to 4K 30/25/24 Hz	-	-	-
GUI Overlay on HDMI	•	•	•	•
3D signal pass-through	•	•	•	•
4K signal pass-through / scaling / GUI overlay	•/•/•	•/-/-	-/-/-	-/-/-
HDMI pass-through in standby mode	•	•	•	•
Picture adjust / Noise reduction	•/•	-/-	-/-	-/-
CEC	•	•	•	-
DSD Audio capability	-	-	-	-
Audio Return Channel	•	•	•	-
Auto LipSync	•	•	•	-
MULTIROOM / CI				
Multiroom zones	2	2	-	-
Zone audio source: HDMI / opt, coax / Network, USB / analog	-/-/•/•	-/-/•/•	-/-/-/-	-/-/-/-
Zone audio output: speaker / preout	•/•	•/-	-/-	-/-
Zone HDMI output from HDMI source	-	-	-	-
IP control / RS232 control / Web control / App control	•/-/•/•	•/-/-/•	•/-/-/•	-/-/-/-
Remote In / Out	-/-	-/-	-/-	-/-
DC Trigger output	-	-	-	-
OTHERS				
Auto speaker setup by microphone	Audyssey MultEQ XT	Audyssey MultEQ XT	Audyssey MultEQ XT	
FL Display	1 line	1 line	1 line	1 line
Graphic User Interface - GUI	Advanced	Hybrid GUI	Hybrid GUI	GUI
ISF Certification	•	-	-	-
GUI languages	9	9	9	1
Setup Assistent	•	•	•	-
Quick Select plus / Quick Select	•/-	•/-	-/-	-
Variable cross over	•	•	•	-
Optimized Bass Redirection	•	•	•	-
Bass Sync	-	-	-	-
ECO Mode	•	•	-	-
Sleep Timer	•	•	•	•

INTEGRATED NETWORK & SURROUND RECEIVERS 2/2

FEATURES	AVR-4520	AVR-X5200W	AVR-X4100W	AVR-X3100W
INPUTS/OUTPUTS				
VIDEO				
Composite In / Out	3+1 / 2	4+1 / 2	3+1 / 2	3 / -
Component In / Out	3 / 1	2 / 1	2 / 1	2 / -
HDMI In / Out	6+1 / 3	7+1 / 3	7+1 / 3	7+1 / 2
Multi-Room Video Out: Video / HDMI	• / •	• / •	• / •	- / •
AUDIO				
Analogue In / Out	6+1 / 1	6+1 / -	5+1 / -	5 / -
Phono (MM) In	•	•	•	-
Digital in: optical / coaxial	2 / 2	2 / 2	2 / 2	2 / 2
Multi-Room Out: analog / digital	2 / -	2 / -	2 / -	1 / -
Multichannel Pre Out	• (11.2) / -	• (11.2) / -	• (11.2) / -	• (7.2) / -
Subwoofer Out	2 (independent)	2 (independent)	2 (independent)	2
7.1 multichannel input	•	-	-	-
OTHER				
Speaker Terminal: Gold plated screw / regular screw	• / -	• / -	- / v	- / •
Number of speaker terminals	11	11	11	7
Speaker A / B	assignable	assignable	assignable	assignable
Bi-amp drive	assignable	assignable	assignable	assignable
Multi-Room Speaker Terminal	assignable	assignable	assignable	assignable
Front Inputs: Audio / Composite / Digital (Opt) / HDMI / USB	• / • / - / • / •	• / • / - / • / •	• / • / - / • / •	- / - / - / • / •
USB Audio / Made for iPod / Made for iPhone	• / • / •	• / • / •	• / • / •	• / • / •
FM Tuner with RDS	•	•	•	•
SPECIFICATIONS				
number of poweramps	9	9	7	7
Power Output (8 ohm, 20 Hz - 20 kHz, 0.08% 2ch Drive)	-	-	-	105 W
Power Output (8 ohm, 20 Hz - 20 kHz, 0.05% 2ch Drive)	150 W	140 W	125 W	-
Power Output (6 ohm, 1 kHz, 0.7% 2ch Drive)	190 W	175 W	165 W	135 W
Power Output (6 ohm, 1 kHz, 1% 1ch Drive)	210 W	205 W	200 W	180 W
GENERAL				
Available colors: Black / Premium Silver	• / •	• / •	• / •	• / -
Metal Front Panel	•	•	•	-
System Remote Control	RC-1165	RC-1193	RC-1193	RC-1192
Pre-programmed / Learnable / LCD Display	• / • / •	• / - / -	• / - / -	- / - / -
Power Consumption in W	780	730	670	600
Power consumption No-Sound (ECO on / off) in W	-	65 W / 110 W	55 W / 85 W	45 W / 80 W
Standby Consumption in W	0.1	0.1	0.1	0.1
CEC Standby Consumption in W	0.5	0.5	0.5	0.5
Network Standby Consumption in W	5.1	4.5	2.7	2.7
Maximum Dimensions	434 x 423 x 195			
Antenna: Horizontal: (W x D x H) in mm		434 x 393 x 167	434 x 389 x 167	434 x 388 x 167
Antenna: Vertical: (W x D x H) in mm		(434 x 393 x 235)	(434 x 389 x 236)	(434 x 388 x 237)
Weight in kg	16.5	14.2	12.6	11.1



AVR-4520



AVR-X5200W



AVR-X4100W



AVR-X3100W

FEATURES				
	AVR-X2100W	AVR-X1100W	AVR-X1000	AVR-X500
INPUTS/OUTPUTS				
VIDEO				
Composite In / Out	2 / -	2 / 1	2 / -	2 / 1
Component In / Out	1 / -	- / -	- / -	- / -
HDMI In / Out	7+1 / 1	7+1 / 1	4+1 / 1	3+1 / 1
Multi-Room Video Out: Video / HDMI	- / -	- / -	- / -	- / -
AUDIO				
Analogue In / Out	4 / -	2 / -	2 / -	2 / -
Phono (MM) In	-	-	-	-
Digital in: optical / coaxial	2 / 0	2 / 0	2 / 0	2 / 0
Multi-Room Out: analog / digital	1 / -	- / -	- / -	- / -
Multichannel Pre Out	•(0.2) / -	•(0.2) / -	•(0.1) / -	•(0.1) / -
Subwoofer Out	2	2	1	1
7.1 multichannel input	-	-	-	-
OTHER				
Speaker Terminal: Gold plated screw / regular screw	- / •	- / •	- / •	- / -
Number of speaker terminals	7	7	5	5
Speaker A / B	assignable	assignable	-	-
Bi-amp drive	assignable	assignable	-	-
Multi-Room Speaker Terminal	assignable	assignable	-	-
Front Inputs: Audio / Composite / Digital (Opt) / HDMI / USB	- / - / - / • / •	- / - / - / • / •	- / - / - / • / •	- / - / - / • / -
USB Audio / Made for iPod / Made for iPhone	• / • / •	• / • / •	• / • / •	- / - / -
FM Tuner with RDS	•	•	•	•
SPECIFICATIONS				
number of poweramps	7	7	5	5
Power Output (8 ohm, 20 Hz - 20 kHz, 0.08% 2ch Drive)	95 W	80 W	80 W	75 W
Power Output (8 ohm, 20 Hz - 20 kHz, 0.05% 2ch Drive)	-	-	0	-
Power Output (6 ohm, 1 kHz, 0.7% 2ch Drive)	125 W	120 W	120 W	110 W
Power Output (6 ohm, 1 kHz, 1% 1ch Drive)	150 W	145 W	145 W	-
GENERAL				
Available colors: Black / Premium Silver	• / -	• / -	• / -	• / -
Metal Front Panel	-	-	-	-
System Remote Control	RC-1192	RC-1189	RC-1181	RC-1180
Pre-programmed / Learnable / LCD Display	- / - / -	- / - / -	- / - / -	- / - / -
Power Consumption in W	500	430	390W	330
Power consumption No-Sound (ECO on / off) in W	35 W / 75 W	30 W / 45 W	-	-
Standby Consumption in W	0.1	0.1	0.1 W	0.3
CEC Standby Consumption in W	0.5	0.5	0.5 W	-
Network Standby Consumption in W	2.7	2.7	2.7 W	-
Maximum Dimensions				
Antenna: Horizontal: (W x D x H) in mm	434 x 339 x 167	434 x 339 x 151	434 x 330 x 151	434 x 319 x 151
Antenna: Vertical: (W x D x H) in mm	(434 x 339 x 235)	(434 x 339 x 215)		
Weight in kg	9.7	8.6	8.2	7.9



AVR-X2100W



AVR-X1000



AVR-X1100W



AVR-X500

BLU-RAY / UNIVERSAL PLAYERS

Technical information		
	DBT-3313UD	DBT-1713UD
Compatibility: CD / SACD / DVD / DVD-A / Blu-ray Disc	•/•/•/•/•	•/•/•/•/•
Audio / Video streaming from network	•	•
Online contents service: YouTube Leanback / Netflix*	•/•	•/•
Audio exclusive mode	•	•
Quick Start Mode	•	•
Video Scaling on HDMI: up to 1080P	•	•
3D video support	•	•
Compressed Audio Compatibility: WMA / MP3	•/•	•/•
Decoder: Dolby Digital Plus / Dolby TrueHD / DTS HD	•/•/•	•/•/•
Decoder: DD / DTS / DTS96/24 / SACD	•/•/•/•	•/•/•/•
DSD from SACD via HDMI	•	•
Multi Channel Down Mix: DD / DTS / SA-CD	•/•/•	•/•/•
CD Compatibility: CD / CD-R/RW / HDCD / SA-CD	•/•/-/•	•/•/-/•
DVD Compatibility: DVD-V / DVD-A / DVD-R / DVD-RW (video) / DVD+R/RW	•/•/•/•/•	•/•/•/•/•
AVCHD / DivX HD / DivX6 / DivX Ultra / DivX plus HD	•/•/•/-/•	•/•/•/-/•
MP3 / WMA from: CD / DVD / USB	•/•/•	•/•/•
Image Disc Compatibility: JPEG / JPEG HD / Picture CD	•/-/-	•/-/-
Loader mechanism	SVH	-
High Grade Audio Components	•	•
Customised Components	•	-
Multi layered construction	•	-
Gold Plated Cinch	•	•
OTHERS		
CEC	•	•
True 24 Frames Per Second (FPS)	•	•
DLNA Certified	• (v1.5)	• (v1.5)
Network Audio: MP3 / WMA / AAC / FLAC / WAV	•/•/•/•/•	•/•/•/•/•
Network static video (JPEG)	•	•
Network Video: MPEG / DivX Plus HD / H.264 / WMV	•/•/•/•	•/•/•/•
Online contents service: YouTube Leanback / Netflix*	•/•	•/•
VIDEO		
HDMI Out	2	1
AUDIO		
Analogue Out: 2 ch / 5.1 ch / 7.1 ch (Cinch)	•/-/-	•/-/-
Digital Out: Coax/ Optical	•/-	-/-
OTHER		
Denon Link HD	•	-
USB	•	•
Ethernet	•	•
Flasher IN / OUT	•/•	•/•
RS232	•	-
SPECIFICATIONS		
D/A conversion (audio)	192 kHz / 32-bit	192 kHz / 24-bit
Frequency response CD (linear PCM)	2 Hz to 20 kHz	2 Hz to 20 kHz
Frequency response (SACD, DVD-A)	2 Hz - 40 kHz (SA-CD)	2 Hz - 40 kHz (SA-CD)
Signal to Noise Ratio	120 dB	115 dB
Dynamic Range: CD / DVD	105 dB	100 dB
Total Harmonic Distortion (THD)	0,0020%	0,0025%
GENERAL		
Available colors: Black / Premium Silver	•/•	•/-
Metal Front Panel	•	-
Remote Control	RC-1161	RC-1161
Power Supply	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
Power Consumption in W	28	20
Standby Consumption in W	0.3	0.3
Maximum Dimensions (W x D x H) in mm	434 x 295 x 115	434 x 295 x 108
Weight in kg	6.9	4.9

* Service not in all countries available - Subscription required



DBT-3313UD



DBT-1713UD

TV SOLUTIONS

Technical information		
	DHT-S514	DHT-T110
HDMI: ARC / CEC	• (1x in / 1x out)	-
Digital input: Optical / Coaxial	•	•
Analogue input (3.5mm mini jack)	•	•
Simple one wire setup	•	•
Bluetooth: A2DP / APT-X	• / •	• / •
Dolby Digital decoding / DTS	• / •	• / -
Soundmode: Dialog, Music, Movie	•	•
Night listening mode	•	•
BassTrac	•	•
Wireless Subwoofer	•	-
INSTALLATION		
Keyhole style wall mount	•	-
Tabletop placement	•	•
Adjustable foot height (2x)	•	-
TV placement on top	-	• (up to 27 kg)
CONTROL		
Control buttons	•	•
Remote Control	•	•
TV remote learning function	•	•
IR blaster for extra IR transmitter	•	-
GENERAL		
Available color: Black	•	•
Standby Consumption in W	0.5	0.5
Auto Power Off	•	•
Dimensions (W x H x D)	1004 x 80 x 78 mm	608 x 71 x 355 mm
Height with foot 1 / foot 2	98 mm / 110 mm	-
Weight kg	2.3	4.3
Subwoofer Dimensions (W x H x D)	172 x 313 x 346 mm	-
Subwoofer Weight kg	5.9	-

INTEGRATED AMPLIFIERS

Technical information				
	PMA-2020AE	PMA-1520AE	PMA-720AE	PMA-520AE
Channels	2	2	2	2
UHC-MOS single push pull circuit	• (Advanced)	• (Advanced)	-	-
Advanced HC-TR single push pull circuit	-	-	•	•
LC mounted twin transformer	•	•	-	-
Wide range amplifier	•	•	•	•
High current dynamic power supply	•	•	•	•
Power amp discrete construction	•	•	•	•
Micro processor auto off	•	•	•	•
Balance / Bass / Treble / Loudness	• / • / • / -	• / • / • / -	• / • / • / •	• / • / • / •
OTHER				
Solid Heat Sinks	• (Separate)	• (Separate)	•	•
Source Direct	•	•	•	•
Power Amp direct	•	•	-	-
INPUTS/OUTPUTS				
Audio Inputs	7	6	6	6
Digital in: USB-B / optical / coaxial	- / - / -	- / - / -	- / - / -	- / - / -
Phono Input: MM / MC	• / •	• / •	• / -	• / -
Audio Outputs	2	1	1	1
Pre-out / Main-in	1 / -	1 / -	1 / -	- / -
Power Amp Direct IN	•	•	-	-
Gold Plated Cinch	•	•	•	-
Speaker A / B	-	-	•	-
Number of terminals	2	2	2	1
Remote Control Bus in / out	•	•	•	•
Headphone Out	•	•	•	•
SPECIFICATIONS				
Output power 8 Ohm (20 Hz - 20 kHz, T.H.D. 0.07%)	80 W	70 W	50 W	45 W
Output power 4 Ohm (1 kHz, T.H.D. 0.7%)	160 W	140 W	85 W	70 W
Total Harmonic Distortion	0.01 %	0.01 %	0.01 %	0.02 %
Input Sensitivity: MM	2.5 mV / 47 kohm	2.5 mV / 47 kohm	2.5 mV / 47 kohm	2.5 mV / 47 kohm
Input Sensitivity: MC	200 µV / 100 ohm	200 µV / 100 ohm	-	-
Signal to Noise Ratio: MM/MC	89 dB / 74 dB	89 dB / 74 dB	86 dB / -	84 dB / -
Input Sensitivity: High level	135 mV / 47 kohms	125 mV / 47 kohms	110 mV / 30 kohms	110 mV / 30 kohms
Signal to Noise Ratio: High level	108 dB	108 dB	107 dB	105 dB
Treble Control	± 8 dB at 10 kHz	± 8 dB at 10 kHz	± 8 dB at 10 kHz	± 8 dB at 10 kHz
Bass Control	± 8 dB at 100 Hz	± 8 dB at 100 Hz	± 8 dB at 100 Hz	± 8 dB at 100 Hz
GENERAL				
Available colors: Premium Silver / Black	• / -	• / •	• / •	• / •
Metal Front Panel	•	•	•	•
Power Consumption in W	360	295	200	185
Standby Consumption in W	0.2	0.2	0.3	0.3
Auto Power off	•	•	•	•
Detachable Power Cable	•	•	•	•
Remote Control	RC-1179	RC-1186	RC-1173	RC-1173
System Remote Function	•	•	•	oav
Maximum Dimensions (W x D x H) in mm	434 x 435 x 181	434 x 414 x 135	434 x 308 x 121	434 x 308 x 121
Weight in kg	24.4	16.1	7.1	6.8



PMA-2020AE



PMA-1520AE



PMA-720AE



PMA-520AE

SA/CD-PLAYERS

Technical information				
	DCD-2020AE	DCD-1520AE	DCD-720AE	DCD-520AE
CD Compatibility: CD / CD-R/RW / SA-CD / WMA / MP3 / AAC	•/•/•/•/•/•	•/•/•/•/•/•	•/•/•/•/•/•	•/•/•/•/•/•
iPod / iPhone compatible USB input	•	•	•	-
AL 32 Processing	• (Advanced)	• (Advanced)	•	-
DAC Master Clock Design	•	•	•	•
DAC operation mode: USB / Coax / Optical	•/•/•	•/•/•	•/-/-	-
Asynchronous mode rear USB	•	•	-	-
Bit-perfect transmission	•	•	-	-
USB-B DSD Audio Streaming (DoP): DSD2.8 / DSD5.6	-	•/•	-	-
Signal isolator for DAC Mode operation	-	•	-	-
Extra metal plate for chassis strengthening	•	-	-	-
Aluminium side panels	•	-	-	-
OTHER				
Display: Dimmer / Off	•/•	•/•	•/•	•/•
PLAYBACK				
Program Play (CD / SA-CD)	•/•	•/•	•	•
Auto Music Scan (AMS)	-	-	-	-
Repeat	•	•	•	•
Random Play	•	•	•	•
Peak Search	-	-	-	-
Edit Recording	-	-	-	-
Pitch Control	-	-	-	-
Start Sound Mode for SA-CD	-	-	-	-
Quick Replay	-	-	-	-
INPUTS/OUTPUTS				
Analogue Out (Cinch)	2 ch	2 ch	2 ch	2 ch
Digital Optical In / Out	•/•	•/•	-/•	-/•
Digital Coaxial In / Out	•/•	•/•	-/-	-/-
Sample Rate digital In	192 kHz / 24-bit	192 kHz / 24-bit	-	-
Gold plated Cinch	•	•	•	-
USB Audio (Front) / Made for iPod / Made for iPhone	•/•/•	•/•/•	•/•/•	-
USB type B input for PC (back)	•	•	-	-
Asynchronous mode rear USB	•	•	-	-
Sample Rate USB type B In	192 kHz / 24-bit	192 kHz / 24-bit	-	-
USB-B DSD Audio Streaming (DoP): DSD2.8 / DSD5.6	-	•	-	-
Remote Control Bus in / out	•	•	•	•
Headphone Out	-	•	•	-
Headphone Volume Control	-	•	•	-
SPECIFICATIONS				
Mechanism	SVH Loader	SVH Loader	-	-
DAC IC	PCM1795 (192 kHz / 32-bit)	PCM1795 (192 kHz / 32-bit)	PCM5142, Burr Brown (192 kHz / 32-bit)	PCM5102, Burr Brown (192 kHz / 32-bit)
SA-CD AUDIO				
Frequency Response (Cust.)	2 Hz - 50 kHz	2 Hz - 50 kHz	-	-
Dynamic Range (SA)	118 dB	113 dB	-	-
Signal to Noise Ratio (SA)	121 dB	117 dB	-	-
Total Harmonic Distortion (SA)	0.0008%	0.001%	-	-
CDDA AUDIO				
Frequency Response	2 Hz - 20 kHz	2 Hz - 20 kHz	2 Hz - 20 kHz	2 Hz - 20 kHz
Dynamic Range	101 dB	100 dB	100 dB	100 dB
Signal to Noise Ratio	120 dB	117 dB	112 dB	110 dB
Total Harmonic Distortion	0,0015%	0,0018%	0,0025%	0,0030%
GENERAL				
Available colors: Premium Silver / Black	•/ -	•/•	•/•	•/•
Metal Front Panel	•	•	•	•
Remote Control	RC-1179	RC-1186	RC-1173	RC-1173
Power Consumption in W	33	38	22	13
Standby Consumption in W	0.2	0.2	0.3	0.3
Auto power off	•	•	•	•
Detachable Power Cable	•	•	-	-
Maximum Dimensions (W x D x H) in mm	434 x 335 x 138	434 x 331 x 134	434 x 273 x 107	434 x 273 x 107
Weight in kg	13.7	8.2	4.1	4.0



DCD-2020AE



DCD-1520AE

NETWORK PLAYER

Technical information	DNP-730AE
Streaming audio from PC	•
Wi-Fi / Wired LAN	• / •
Wi-Fi sharing / WPS	• / •
WMM certified	•
Internet radio	•
AirPlay audio streaming	•
Windows Play to	•
vTuner / Spotify*	• / Connect
USB Audio (Front) / Made for iPod / Made for iPhone	• / • / •
DLNA certified	• (v1.5)
Music Server	DLNA (1.5) / WMP11 / TwonkyVision
Lossy formats: MP3 / WMA / AAC	• / • / •
Lossless formats: DSD / FLAC HD 192/24 / ALAC 96/24 / WAV 192/24	• / • / • / •
Gapless Playback	• (FLAC, WAV)
Remote APP: iDevice / Android	• / •
App control AMP/CD via Network Player	•
OTHER	
Display	3 line OLED
Display: Dimmer / Off	• / •
IN/OUTPUTS	
iPod / iPhone compatible USB (front)	•
USB type B input for PC (back)	-
Sample Rate USB In	-
Analogue Out	1 x Cinch
Ethernet port	•
Digital Inputs: Coaxial / Optical	- / -
Digital Outputs: Coaxial / Optical	- / •
Sample Rate digital In	-
Jitter Reducer	•
Remote Control Bus in / out	•
SPECIFICATIONS	
DAC IC	PCM1795, 32-bit / 192kHz
Dual Clock	-
Frequency response	2 Hz-50 kHz
Dynamic range in dB	101
Signal-to-noise ratio in dB	110
Total harmonic distortion	0,0012%
GENERAL	
Available colors: Premium Silver / Black	• / •
Metal Front Panel	•
Remote Control	RC1197
Power Consumption in W	18
Standby Consumption in W	0.2
Detachable Power Cable	•
Maximum Dimensions (W x D x H) in mm	434 x 297 x 74
Weight in kg	2.9

* Service not in all countries available - Subscription required



DNP-730AE

TURNTABLES

Technical information			
	DP-300F	DP-200USB	DP-29F
Motor: AC / DC	- / •	- / •	- / •
Drive System: Belt / Direct	• / -	• / -	• / -
Operation: Automatic / Manual	• / -	• / -	• / -
Speed: 33-1/3 & 45 RPM	• / •	• / •	• / •
Wow & flutter	0.10% (WRMS)	0.15 % (WRMS)	0.15 % (WRMS)
Phono EQ built in (switchable)	•	•	•
Stylus (MM / MC)	• / -	• / -	• / -
SPECIFICATIONS			
Rated Output	2.5 mV / 1 kHz	2.5 mV / 1 kHz	2.5 mV / 1 kHz
Frequency Range	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz
S/N ratio	60 dB	-	-
Rated Output Phono EQ	150 mV / 1 kHz	150 mV / 1 kHz	150 mV / 1 kHz
Frequency Range Phono EQ	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz
GENERAL			
Available colors: Premium Silver / Black	• / •	• / •	Silver / -
Maximum Dimensions (W x D x H) in mm	434 x 381 x 122	360 x 357 x 97	360 x 357 x 97
Weight in kg	5.5	3.2	2.8

CARTRIDGES

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

MINI HI-FI SYSTEM

D-F109/D-F109DAB*

Technical information		
Receiver	DRA-F109DAB	DRA-F109
High quality power output	2 x 65 W	2 x 65 W
Tuner: DAB / DAB+ / FM (RDS)	- / - / •	• / • / •
Tone Control: Bass / Treble / Balance	• / • / •	• / • / •
Clock	•	•
Sleep Timer	•	•
Programmable Timer: Once / Daily	• / •	• / •
INPUTS/OUTPUTS		
AUDIO		
Analogue In/out	2 / 0	2 / 0
Digital Optical In/Out	1 / 0	1 / 0
Digital Coaxial In / Out	2 / 0	2 / 0
OTHER		
Subwoofer PreOut	•	•
Speaker Terminal: click fit / Screw	- / •	- / •
Headphone Out	•	•
SPECIFICATIONS		
AUDIO SECTION		
Power Output (4 ohms, 1 kHz, T.H.D. 0.7%)	65 W	65 W
Number of channels	2	2
Freq. Response (Analogue In)	20 Hz - 20 kHz	20 Hz - 20 kHz
DAB SECTION		
Receiving Range Band III	-	•
TUNER SECTION FM		
Frequency Range FM	87.5 Mhz - 108.0 MHz	87.5 Mhz - 108.0 MHz
GENERAL		
Available colors: Black / Premium Silver	• / •	• / •
Remote Control	RC-1163	RC-1163
Power Consumption in W	48	48
Standby Consumption in W	0.3	0.3
Maximum Dimensions (W x D x H) in mm	250 x 283 x 82	250 x 283 x 82
Weight in kg	2.6	2.6

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

Technical information	
Speaker System	SC-F109
Type	2-way, bass reflex
Drivers	12 cm bass-mid 2.5 cm dome high
Impedance (ohms)	6
Frequency range	45 Hz - 40 kHz
Available colors: Black / Wood	• / •
Maximum Dimensions (W x D x H) in mm	165 x 234 x 245
Weight in kg	3.8 per unit

Technical information	
CD-Player	DCD-F109
CD Compatibility: CD / CD-R/RW / WMA / MP3	• / • / • / •
USB Audio (Front) / Made for iPod / Made for iPhone	• / • / •
INPUTS/OUTPUTS	
Digital Outputs: Coaxial / Optical	• / -
Remote Control Bus in / out	•
GENERAL	
Available colors: Black / Premium Silver	• / •
Remote Control	via system RC
Power Consumption in W	25
Standby Consumption in W	0.3
Maximum Dimensions (W x D x H) in mm	250 x 260 x 82
Weight in kg	2.8

Technical information	
Network Player	DNP-F109
Streaming audio from PC	•
Internet radio	•
vTuner	•
AirPlay audio streaming	•
USB Audio (Rear) / Made for iPod / Made for iPhone	• / • / •
Ethernet / WiFi	• / •
DLNA certified	• (v1.5)
Lossy formats: MP3 / WMA / AAC	• / • / •
Lossless formats: FLAC HD 192/24 / ALAC 96/24 / WAV 192/24 / AIFF	• / • / • / •
Remote APP	•
IN/OUTPUTS	
iPod / iPhone compatible USB input	1
Analogue Out	1
Ethernet port	•
Digital Outputs: Coaxial / Optical	• / -
Remote Control Bus in / out	•
SPECIFICATIONS	
DAC IC	AK4424
Frequency response	2 Hz-48 kHz (fs: 96 kHz) 2 Hz-20 kHz (fs: 44.1 kHz)
Dynamic range	98 dB
Signal-to-noise ratio	110 dB
Total harmonic distortion	0.0035 % (1 kHz, audible band)
GENERAL	
Available colors: Black / Premium Silver	• / •
Remote Control	RC-1164
Power Consumption in W	16
Standby Consumption in W	0.3
Maximum Dimensions (W x D x H) in mm	250 x 260 x 82
Weight in kg	2.0



DRA-F109



DNP-F109



DCD-F109

MINI HI-FI SYSTEM

D-M39/D-M39DAB*

Technical information		
CD-Receivers	RCD-M39	RCD-M39DAB
High quality power output	2 x 30 W	2 x 30 W
CD Compatibility: CD / CD-R/RW / WMA / MP3	• / • / • / •	• / • / • / •
Tuner: DAB / DAB+ / FM (RDS)	- / - / •	• / • / •
USB Audio (Front) / Made for iPod / Made for iPhone	• / • / •	• / • / •
Tone Control: Bass / Treble / Balance	• / • / •	• / • / •
Clock	•	•
Sleep Timer	•	•
Programmable Timer: Once / Daily	• / •	• / •
INPUTS/OUTPUTS		
AUDIO		
Analogue In/out	1 / 0	1 / 0
Digital Optical In/Out	• / -	• / -
OTHER		
iPod / iPhone compatible USB input	•	•
Subwoofer PreOut	•	•
Speaker Terminal: click fit / Screw	- / •	- / •
Headphone Out	•	•
SPECIFICATIONS		
AUDIO SECTION		
Power Output (6 ohm, 1kHz)	30 W	30 W
Number of channels	2	2
Freq. Response (Analogue In)	20 Hz - 20 kHz	20 Hz - 20 kHz
DAB SECTION		
Receiving Range Band III	-	•
TUNER SECTION FM		
Frequency Range FM	87.5 Mhz - 108.0 MHz	87.5 Mhz - 108.0 MHz
GENERAL		
Available colors: Black / Premium Silver	• / •	• / •
Remote Control	RC-1162	RC-1162
Power Consumption in W	70	70
Standby Consumption in W	0.3	0.3
Maximum Dimensions (W x D x H) in mm	210 x 308 x 115	210 x 308 x 115
Weight in kg	4.0	4.0

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

Technical information	
Speaker System	SC-M39
Type	2-way, bass reflex
Drivers	12 cm bass-mid 2.5 cm dome high
Impedance (ohms)	6
Frequency range	45 Hz - 40 kHz
Available colors: Black / Wood	o / o
Maximum Dimensions (W x D x H) in mm	145 x 234 x 238
Weight in kg	3.5 per unit



RCD-M39

USB-DAC

Technical information		
	DA-300USB	DA-10
DAC operation mode: USB / Coax / Optical	• / • / •	• / - / -
Asynchronous mode rear USB	•	•
Bit-perfect transmission	•	•
USB-B DSD Audio Streaming (DoP): DSD2.8 / DSD5.6	• / •	• / •
iPod / iPhone compatible USB input	•	•
DAC chip	PCM1795 (192 kHz / 32-bit)	PCM1795 (192 kHz / 32-bit)
AL 32 Processing	• (Advanced)	• (Advanced)
DAC Master Clock Design	•	•
Vertical installation	•	-
Low Noise OLED display	•	-
INPUTS/OUTPUTS		
Headphone Out	•	•
Headphone Volume Control	•	•
Headphone Gain Control (low / mid / high)	-	•
Analogue Input	-	1
Analogue Out (fix / variable)	• / -	• / -
Digital Optical In / Out	2 / -	- / -
Digital Coaxial In / Out	1 / -	- / -
Sample Rate digital In	192 kHz / 24-bit	-
Gold plated Cinch	•	-
USB Audio	-	•
USB type B input for PC (back)	•	• (micro)
Asynchronous mode rear USB	•	•
Sample Rate USB type B In	192 kHz / 24-bit	192 kHz / 24-bit
USB-B DSD Audio Streaming (DoP): DSD2.8 / DSD5.6	•	•
SPECIFICATIONS		
Frequency Response	2 Hz - 100 kHz	2 Hz - 50 kHz (-3 dB)
Signal to Noise Ratio	112 dB	108 dB (Volume max, 2V)
Total Harmonic Distortion	0,0018%	0.003 % (1 kHz, Audible range)
Channel Separation	100 dB	101 dB (1kHz)
Headphone Power	50 mW / 32 ohms	40 mW + 40 mW (32 ohms, 1 % distortion) 18 mW + 18 mW (600 ohms, 1 % distortion)
GENERAL		
Available colors: Silver / Black	• / -	• / -
Remote Control	-	-
Auto power off	•	-
Detachable Power Cable	adaptor	-
Maximum Dimensions (W x D x H) in mm	170 x 182 x 57 (horizontal) 114 x 182 x 175 (vertical with foot)	634 x 136 x 28
Weight in kg	1.5	0.23

NETWORK MUSIC SYSTEMS

Technical information			
	CEOL Carino	CEOL Piccolo	CEOL
High quality power output	2 x 20 W	2 x 40 W	2 x 65 W
CD Compatibility: CD / CD-R/RW / WMA / MP3	- / - / - / -	- / - / - / -	• / • / • / •
Tuner: FM (RDS) / AM	- / -	- / -	• / •
Streaming audio from PC	-	•	•
PC Direct by rear USB-B	• (no driver required)	-	-
Bluetooth / aptX / NFC	• / Low Latency / •	• / - / •	• / - / •
Internet radio	-	•	•
AirPlay audio streaming	-	•	•
Windows 8 / RT	-	•	•
vTuner / Spotify*	-	• / Connect	• / Connect
USB Audio (Front) / Made for iPod / Made for iPhone	- / - / -	• / • / •	• / • / •
Ethernet / WiFi	- / -	• / •	• / •
WiFi setup: WPS / WiFi Sharing	- / -	• / •	• / •
DLNA certified	-	• (v 1.5)	• (v 1.5)
Lossy formats: MP3 / WMA / AAC	-	• / • / •	• / • / •
Lossless formats: FLAC HD 192/24 / ALAC 96/24 / WAV 192/24 / AIFF	-	• / • / • / •	• / • / • / •
Gapless Playback	-	•	•
WMM (WiFi Multimedia)	-	•	•
Remote APP: iDevice / Android	-	• / •	• / •
Tone Control: Bass / Treble / Balance	Speaker Optimization	• / • / •	• / • / •
MaxxBass / MaxxTreble	• / •	- / -	- / -
Auto Volume Adjust / Wide Sound	• / •	- / -	- / -
Vertical installation	•	-	-
Low Noise OLED display	•	3 line	3 line
Clock	-	•	•
Sleep Timer	-	•	•
Programmable Timer: Once / Daily	- / -	• / •	• / •
INPUTS/OUTPUTS			
AUDIO			
Analogue In/out	1 / 0	1 / 0	1 / 0
Digital Optical In/Out	-	1 / 0	2 / 0
Rear USB-B	•	-	-
OTHER			
iPod / iPhone compatible USB input	-	1	1
Subwoofer PreOut	•	•	•
Speaker Terminal: push type / Screw	• / -	• / -	• / -
Headphone Out	•	•	•
SPECIFICATIONS			
AUDIO SECTION			
Power Output (6 ohm, 1kHz)	20 W	40 W / 4 ohms	60 W / 4 ohms
Number of channels	2	2	2
Freq. Response (Analogue In)	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz
Signal to Noise Ratio (audio)	86 dB	86 dB	86 dB
Total Harmonic Distortion (audio)	0.1 (1 kHz / 5 W / 6 ohms)	0.1 (1kHz / 5 W / 4 ohms)	0.1 (1 kHz / 5 W / 4 ohms)
TUNER SECTION FM			
Frequency Range FM	-	-	87.5 - 108 MHz
Signal to Noise Ratio (Mono/Stereo) FM	-	-	74/70 dB
Total Harmonic Distortion (Mono/Stereo) FM	-	-	0.3 / 0.4%
GENERAL			
Available colors: Black / White	• / •	• / •	• / •
Remote Control	RC-1195	RC-1198	RC-1199
Power Consumption in W	15	45	55
Standby Consumption in W	0.4	0.4	0.4
Maximum Dimensions (W x D x H) in mm	175 x 201 x 60	200 x 239 x 90	280 x 305 x 102
Weight in kg	1.5	2.0	3.3

Technical information			
Speaker	SC-N2	SC-N4	SC-N9
Type	2-way, passive	2-way, reflex	2-way, reflex
Drivers	6 cm full range, 7.5 cm passive bass	10 cm bass-mid, 2.5 cm dome high	12 cm bass-mid, 2.5 cm dome high
Impedance (ohms)	6	6	6
Available colors: Black / White	• / •	• / •	• / •
Maximum Dimensions (W x D x H) in mm	98 x 98 x 105	134 x 200 x 185	153 x 200 x 233
Weight in kg	0.73	2.0	2.4

HEADPHONES

Technical information					
MUSIC MANIAC					
	AH-MM400	AH-MM300	AH-MM200	AH-C120MA	AH-C50MA
Colour	American Walnut	Black	Black / White	Black	Black/Silver
Driver Diameter	40 mm	40 mm	30 mm	11.5 mm	9 mm
Driver Type	Dynamic (Carbon/paper diaphragm + Free Edge)	Dynamic (Carbon/paper diaphragm + Free Edge)	Dynamic (Triple layered Diaphragm)	Dynamic	Dynamic
Impedance	32 ohms	32 ohms	24 ohms	32 ohms	16 ohms
Sensitivity	98 dB / mW	96 dB / mW	99 dB / mW	106 dB / mW	103 dB / mW
Maximum Power Input	1000 mW	1000 mW	1000 mW	250 mW	100 mW
Frequency Response	10-40,000 (Hz)	10-40,000 (Hz)	10-25,000 (Hz)	5-24,000 (Hz)	20-23,000 (Hz)
Weight	310 g	195 g	130 g	7.37 g (not including cable)	3.96 g (not including cable)

Technical information		
GLOBE CRUISER		
	AH-W200	AH-GC20
Colour	Silver / Black	Black
Driver Diameter	11.5 mm	40 mm
Driver Type	Dynamic	Dynamic
Impedance	16 ohms	100 Ohm (Power on)
Sensitivity	102 dB / mW	102 dB / mW
Maximum Power Input	250 mW	1000 mW
Frequency Response	5-25,000 Hz	5-40,000 Hz
Weight	23 g	275 g

Technical information	
EXERCISE FREAK	
	AH-W150
Colour	Blue, Black, Yellow, Orange
Driver Diameter	11.5 mm
Driver Type	Dynamic
Impedance	16 ohms
Sensitivity	102 dB / mW
Maximum Power Input	250 mW
Frequency Response	5-25,000 Hz
Weight	23 g

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