

# DENON



## THE ART OF UNDERSTANDING.

General Catalogue 2012 | 2013

# FEEL IT



FEFE

# DENON WELCOMES YOU TO A NEW ERA.

When we think about what makes us special as a brand, it is first and foremost the ability to understand the needs of the people. That is finding answers to questions like: What is it that people want from their entertainment technology? What exactly do they need? And what does it take to fulfil those wishes while keeping things easy to use?

Modern network technologies have added yet another crucial dimension of understanding to today's entertainment technology: the understanding between different devices. Be it WiFi or AirPlay, Ethernet or dlna – all these are languages that our new network products easily understand, guaranteeing you an immaculate experience on a cutting edge level.

But there's more to this year's Denon line-up. Our designers and engineers are happy to present our first ever speaker docks - once again setting a benchmark in a new segment.

Finally, we are happy to introduce to you a new school of design which graces our all-new 2012 AVR range. Another bold step in timeless styling and stunning technology.

The Denon experience goes far beyond seeing and hearing. With each and every one of our products, we strive to make it an emotional experience – dedicated to touch your senses in a way that remains unrivalled.

Feel it – and you will understand.

**The People from Denon.**



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# UNDERSTANDING THE POWER OF DESIGN.

Looking through our new line-up, you will discover a lot of new 'faces'. And even though design has always played a key role in our development, this year's Denon range marks a new era in this regard.

Because after all, design is about understanding. Understanding what people desire. And understanding what ultimately works best.

# FEEL IT



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Beginning with a bold visual statement such as the all-new AVR series (pages 8-15), this quest continues with the new Universal Disc Player DBT-3313UD (page 16/17). Furthermore, a completely new product category has been developed to flatter your eyes as much as your ears - The Cocoon Speaker Docks (pages 18-23).

In the Hi-Fi-components category, the all new PMA 2020AE takes a new stand, not just regarding looks (pages 24-26). The Ceol Piccolo (pages 34-35/37), the highly anticipated extension to our successful network system Ceol, comes with a sleek and clean design, too.

**Have a look, have a listen.**



## AV-ART CREATED BY DENON.

It's an art to create virtuous surround technology, which at the same time is strikingly simple to use. And it's an art to create a visual statement, that in itself has a value by means of design. The all-new AVR Series excels in both of these fields.

From the very beginning, our goal was to create a new kind of user experience. Intuitive, clear, simple. This resulted in a GUI with a cleaner design and less buttons, and an even simpler layout for our remote controls. You wouldn't want a baby to use it – but it probably could!





On the inside, we pushed the boundaries, too. With an expanded Network feature set for most AVRs, such as the FLAC 192/24 support, or gapless playback. Also new is the native support for Spotify. And with Denon being first to integrate Apple's AirPlay naturally, we did it again. Yet more proof of Denon always being a step ahead, is the new AVRs support of 4k scaling and 4k HDMI switching – the visual sensation of the future.

Starting from AVR-3313 upwards, we also implemented another stroke of genius from our engineers – the Denon Link HD

– a unique digital signal transmission. For more information on this, check page 16.

Apart from these innovations, the already famous Denon engineering concept with fully discrete high quality power amp, direct mechanical ground construction and high class Audyssey EQ technology has remained untouched.

#### **Sounds artistically yet?**

**We recommend you experience it live to fully understand AV-ART, created by Denon.**



## AVR-4520 INTEGRATED NETWORK RECEIVER

The new leader of the Denon AVR range comes with 170 W x 9 channel power amplifier and an 11.2 channel processing capability with DSX and dts NeoX. Next to the integrated 4k video processing capability and its improved i/p scaling, it performs with AL32 Multi processing and high grade 32bit/192k DAC for higher resolution audio playback and the full range of network functionalities, to name but a few of its talents. The new Denon Link HD digital transmission (in combination with DBT-3313UD) adds perfectly to the most comprehensive AVR experience we have to offer.

11.2 Channel Processing capability for Audyssey DSX and dts NeoX // 170 W x 9 ch (6 ohms) – monolithic construction // AL32 Multi Processing and high grade 32bit/192kHz DAC for high resolution audio playback // Denon Link HD and Hybrid PLL Clock Jitter Reducer // 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 // Advanced Network capability / DLNA1.5 certified / Audio streaming from Network incl. FLAC HD files / AirPlay audio streaming / Spotify\* and last.fm\* music service support / vTuner internet radio / Flickr Photo Streaming / Ethernet HUB – 4 ports // Advanced GUI // Denon Remote App for iOS and Android // Available in black and premium silver // \* This feature is not available in all countries.



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## AVR-3313 INTEGRATED NETWORK RECEIVER

The fully discrete, identical quality and power of the massive 165 W x 7 channels build the central characteristics of the AVR-3313. The full network functionality, the ability for 4k video processing and the triple HDMI outputs join the unique Denon Link HD function, guaranteeing the ultimate in entertainment pleasure.

165 W x 7 ch (6 ohms) – fully discrete and symmetrically laid out power stages // Denon Advanced High Quality Audio technology DDSC-HD and AL24 Multi Processing // Denon Link HD and Hybrid PLL Clock Jitter Reducer // Audyssey DSX audio processing // 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 // Advanced Network capability / DLNA1.5 certified / Audio streaming from Network incl. FLAC HD files / AirPlay audio streaming / Spotify\* and last.fm\* music service support / vTuner internet radio / Flickr Photo Streaming // Audyssey MultEQ XT, Setup Assistant and Advanced GUI for easy set-up and operation // Denon Remote App for iOS and Android // Available in black and premium silver // \* This feature is not available in all countries.



Check out the video for more info. Simply scan this QR code with your mobile phone.





## AVR-2313 INTEGRATED NETWORK RECEIVER

Just like the 135 W x 7 channel AV Receiver, the prime virtue of fully discrete, identical quality and power supply runs in our entire AVR family. Additionally, the AVR-2313 comes with a substantial network feature set, including AirPlay.

135 W x 7 ch (6 ohms) – fully discrete and symmetrically laid out power stages // Audyssey DSX audio processing // 5+1 (front) HDMI inputs with 3D and 4k video support // Dual HDMI output - simultaneously // 4k video upscaling and pass through // Advanced Network capability / DLNA1.5 certified / Audio streaming from Network incl. FLAC HD files / AirPlay audio streaming / Spotify\* and last.fm\* music service support / vTuner internet radio / Flickr Photo Streaming // Front USB input: iPod / iPhone digital compatible // 2nd Zone Multiroom-Multisource (powered by Surround Back amplifier) // Audyssey MultEQ XT, Setup Assistant and Advanced GUI for easy set-up and operation // Denon Remote App for iOS and Android // Available in black // \* This feature is not available in all countries.



# FEEL IT



## AVR-2113 INTEGRATED NETWORK RECEIVER

The all-new “Everyceiver” humbly delivers 125 W x 7 channel fully discrete power to your entertainment. A comprehensive network feature range including AirPlay plus a 4k video capability on board are only some of the reasons which make it the perfect solution to enjoy every sound, every source, every moment.

125 W x 7 ch (6 ohms) – fully discrete and symmetrically laid out power stages // Dolby TrueHD, dts-HD Master Audio and Dolby Pro Logic IIz // 5+1 (front) HDMI inputs with 3D, CEC and ARC support // Analog and digital video upscaling up to 4k // Advanced Network capability / DLNA1.5 certified / Audio streaming from Network incl. FLAC HD files / AirPlay audio streaming / Spotify\* and last.fm\* music service support / vTuner internet radio / Flickr Photo Streaming // Front USB input: iPod / iPhone digital compatible // 2nd Zone Multiroom-Multisource (powered by Surround Back amplifier) // Audyssey MultEQ XT, Setup Assistant and Advanced GUI for easy setup and operation // Denon Remote App for iOS and Android // Available in black // \* This feature is not available in all countries.





## AVR-1713 INTEGRATED NETWORK RECEIVER

Splendid surround entertainment with 120 W x 5 channels, AirPlay on board and other comprehensive network features, such as Internet radio, last.fm and the ability to play local contents.

120 W x 5 ch (6 ohms) – fully discrete and symmetrically laid out power stages // Dolby TrueHD and dts-HD Master Audio // Audyssey Dynamic Volume and Dynamic EQ // 4+1 (front) HDMI inputs with 3D, ARC and CEC support // Advanced Network capability / DLNA1.5 certified / Audio streaming from Network incl. FLAC HD files / AirPlay audio streaming / last.fm\* music service support / vTuner internet radio / Flickr Photo Streaming // Front USB input: iPod / iPhone digital compatible // Audyssey MultEQ XT, Setup Assistant and GUI for easy setup and operation // Quick Select Button for direct access to favourite sources // Denon Remote App for iOS and Android // Available in black



## AVR-1513 AV RECEIVER

The fully discrete power amp delivers Denon's legendary sound quality via 5 channels with 110 W each, with Front HDMI input to easily connect tablets, camcorders and cameras.

110 W x 5 ch (6 ohms) // High quality discrete power amplifier for powerful sound // Dolby TrueHD and dts-HD Master Audio Decoders // 3+1 (front) HDMI inputs with 3D support // Compressed Audio Restorer // Quick Select Button for direct access to favourite sources // GUI for easy operation and setup // Large character display // Front auxiliary input // Auto Power Off for energy saving // Available in black





## DHT-1312 XP HOME THEATRE SYSTEM

The perfect match for your home theatre entertainment, – this thoroughly concerted combination of the AVR-1312 and the SYS-1312HT 5.1 speaker set gets you ready to dive into cinema action.

**AVR-1312** // 110 W x 5 ch (6 ohms) // High quality discrete power amplifier for powerful sound // Dolby TrueHD and dts-HD Master Audio Decoders // 4x HDMI 1.4 with 3D support / 1x out // Compressed Audio Restorer // Quick Select Keys with symbols // GUI overlay on HDMI // iPod ready via optional Dock // Front auxiliary input // Available in black // **SYS-1312HT 5.1 Speaker System** // **SC-F1312** // Identical "Front" and "Surround" speakers // Wideband 8 cm driver // High gloss cabinet // **SC-C1312** // "Centre" speaker // Wideband 8 cm driver // High gloss cabinet // **DSW-1312** // Subwoofer // 100 W powerful subwoofer with a large cabinet for rich sound



**HDMI 3D RDS**



## ASD-11R CONTROL DOCK FOR IPOD

With integrated high quality pre-amplifier.



Enjoy photos and videos from your iPod // The ASD-11R lets you connect your iPod to a Denon component with Dock Control to view photos and play videos stored on your iPod. // Enjoy music from your iPod with high quality sound // The ASD-11R allows you to connect your iPod to a Denon component with Dock Control and play the music stored on your iPod without losing sound quality. // Display iPod information on your TV // You can monitor iPod text information, such as menus and track names, on a TV screen, or the front display of a Denon component with Dock Control. // Recharge your iPod // The battery is charged automatically when the iPod is inserted into the ASD-11R // Supported iPods // The ASD-11R supports iPods equipped with Dock Connector Port (4th-generation iPod\* or later (including iPod classic\*), iPod nano\* and iPod touch\*) // Dimensions (W x H x D): 104 x 28.5 x 76.5 mm / Weight: 220g // \* The iPod is not included in delivery.

# FEEL IT



## AVR-3313 + DBT-3313UD DESIGNED TO UNITE.



Let us introduce you to the legitimate successor of our critically acclaimed DBP-2012UD. Perfectly fitting the new AVR-range by means of its solid aluminium front panel design, the DBT-3313UD also convinces with its inner values.

It's a truly universal talent, which understands how to play back Blu-rays, DVDs, SACDs, DVD-As and even online video streaming content like YouTube or Netflix.

Taking in discs with its new-shielded SVH ultra fast loading mechanism, the DBT-3313UD responds instantaneously and can be controlled via Denon Remote-App.

But there's one more thing that this unique piece amazes all demanding ears with – the Denon Link HD, a newly developed digital transmission, that substantially reduces jitter. Seriously. Forever.

When the DBT-3313UD unites with a Denon AVR-3313 (see image) or AVR-4520, Denon Link HD lets you experience a perfectly synchronised clock, thus delivering a pureness and accuracy in signal transmission that is absolutely flawless.





## DBT-3313UD UNIVERSAL DISC TRANSPORTER

Being the top of our range, this Universal Disc Transporter shines with uncompromising quality and incredible versatility. Bearing the unique Denon Link HD capability to maximally reduce jitter, it's the perfect match for one of our new AVR-4520 and AVR-3313 – but it will win your heart just as easily with any other companion you intend to couple it with. Apart from its multitalent regarding the discs it reads, it also supports online video streaming contents such as YouTube or Netflix.

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

Ready to read an astounding number of disc formats, this Transporter is built to fulfil all your musical wishes in pure Denon excellence. It comes with quick response and App control, to sovereignly improve your pleasure even more.

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.





FEET



## DESIGNED TO WOW.

Imagine an object so beautiful, it receives the red dot award for outstanding design. Now imagine it being able to gather all of your digital music from in and around your house and from the Internet into just one central music system. Just like a grown-up Audio Home System. Finally, think of all this music being played back via extraordinary speaker and amplifier technology plus Advanced DSP.

Introducing the Denon Cocoon Speaker Docks. Developed from a tight and in-depth dialogue with our customers around the globe and designed exactly around their needs, our engineers set out to create a Speaker Dock that is unparalleled in both, quality and functionality. Thanks to the extended network features, Cocoon easily streams from AirPlay, Android and Windows devices, has a built-in Internet radio and can be comfortably controlled via the Denon Cocoon App.

Last but not least, we understand that you want to enjoy technology, not study it. That's why we integrated a super-easy Automated Set-Up, a unique intuitive control and multi-platform App support. You want it all, the easy way? We hear you.

Cocoon is available in two different variants to exactly fulfil all your specific needs.

**We suggest you visit your dealer to touch it, to hear it, and well – to feel it.**



## COCOON HOME SPEAKER DOCK



Big and beautiful, the Cocoon Home is a captivating object that bears incredible design on both the inside and outside. The unique and iconic shape paves the way for Cocoon Home to become one timeless piece of entertainment technology. It is a statement that does not require any compromise on the quality of music you enjoy in your home.

It comes with touch sensitive control buttons, smoothly integrated into the body's curves, a retractable tray with OLED display, Denon Double layer woofers that reliably produce the original Denon Sound from a large variety of sources – and to round it all up, a remarkable set of network capabilities. An entirely new class of sound & design awaits you.

High quality speaker Dock for iPod touch, iPhone and iPad // Retractable dock-tray with display // Wireless audio streaming from all mobile platforms // Advanced Network capability / Audio streaming from Network PC / NAS / AirPlay audio streaming / Built-in internet radio with 3 presets // Auxiliary input and USB input for system expansion // Premium Sound Performance / 2-way speaker system with bass ports / Full Range Precision Speakers for accurate music reproduction / Genuine digital Denon Audio Processing with high-power amplifier circuit / 2" cone tweeters for a clear, open and detailed sound // Iconic design in high quality execution / Metal foot with engraved Denon logo / Detachable grille (hand-washable) // Ergonomic remote control in the same Cocoon shape // Denon Cocoon App with advanced functionality for iOS and Android // Available in high gloss black and white



[www.denon.com/cocoon](http://www.denon.com/cocoon)



# FEEL IT



## THE MOBILE APP

To complete your Cocoon experience, you can download the Denon Cocoon App to control the speaker dock. It's a pretty and a smart thing, Upon attaching it for the first time, it automatically recognises the color of your Cocoon and adapts its surface accordingly. It also automatically turns the language setting to the language used in your mobile device. It's just as much fun to play with as the Cocoon itself.

**Features** // Automatic skin color detection (always re-adjustable) // Automatic language selection at set-up // NetLink\* for automatic integration in your WiFi home network // Easy set-up and operation of the system // Stream music directly to your Cocoon // embedded TuneIn-App for internet radio // Playlist & party queue mode // Browse your home network for available music // \* Only in conjunction with iOS devices.





## COCOON PORTABLE SPEAKER DOCK



The Cocoon Portable carries the full functionality and concept of its bigger sibling. Designed for indoor and outdoor use alike, we understood it needed some extra smart features to make it your ideal sound companion everytime, everywhere.

The built-in rechargeable li-ion battery, for instance, allows for up to 5 hours of independent use. The cabinet is constructed out of one single piece, resulting in an utterly robust and solid construction that is water resistant. The convenient handle in the back makes it easy to carry, and the remote control can be stowed away in a separate repository so you'll always have it at hand but won't ever lose it though.

Anything more you would wish for? We're sure you'll find it in the feature list. Happy Outdoors, everybody!

High quality speaker Dock for iPod touch & iPhone // Build in rechargeable li-ion battery for up to 5 hours of portable use // Integrated carrying handle // Repository for remote control // Retractable dock-tray with display // Wireless audio streaming from all platforms // Advanced Network capability / Audio streaming from Network PC / NAS / AirPlay audio streaming / Built-in internet radio with 3 presets // Auxiliary input for system expansion // High fidelity sound quality / Speaker system with bass ports and Denon dual layer cone technology // Genuine digital Denon Audio Processing with high-power amplifier circuit // Iconic design in high quality execution / Solid outdoor proofed metal grill / Water resistant // Denon Cocoon Remote App with advanced functionality for iOS and Android // Available in high gloss black







# DESIGNED TO IMPRESS.



With more than 100 years of company heritage, we have never stopped pushing the frontiers on classic 2-channel HI-FI. The result is our new flagship power amplifier PMA-2020AE, because it sums up all of our dedication and know-how within its beautifully shaped body.





Its remodelled UHC-MOS Single Push/Pull Circuit for instance or the twin transformers with leakage cancelling amount prove, that we always find ways to advance our famed 2-channel products.

Being nothing less but the perfect match, the new DCD-2020AE makes its long anticipated first appearance. This SACD/CD-Player delivers purity in design and performance.

The advanced AL32 processor, a 32bit/192 kHz D/A converter and the new DAC master clock design with low phase noise oscillator and many more technical innovations surely qualify it to be a true enrichment for any other amplifier on the planet, too.

FEEL IT



## DCD-2020AE CD/SACD-PLAYER

The finest and most dedicated CD-Player we ever built. With the DCD-2020AE you own a masterpiece of Hi-Fi-technology. Its Advanced AL32 processor, and 32-bit /192 kHz D/A Converter provide you with pure and clean pleasure of sound.

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 // Pure Direct Mode // Front USB input: iPod / iPhone digital compatible // Rear USB-B input: asynchronous mode and 192 kHz / 24-bit capable // SPDIF input (optical/coaxial) for upgrading other equipment // Available in premium silver

ADVANCED AL32 PROCESSING  COMPACT DISC DIGITAL AUDIO MP3 WMA  32-bit 192 kHz DAC 

## PMA-2020AE INTEGRATED AMPLIFIER

The PMA-2020AE is the peak of our 2-channel amplifier range. Massively constructed yet designed with delicate precision, this Ultra-High-Current power amplifier knows no compromise. Enjoy high-quality Denon sound in its full beauty.

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 // Available in premium silver

ADVANCED Ultra High Current MOS  SERIAL LEVEL DEVICE CONSTRUCTION



# FEEL IT



## DCD-1510AE CD/SACD-PLAYER

This well-engineered CD-Player effortlessly reads MP3 and WMA files from discs or USB, allows iPod and iPhone direct playback and transforms any of these files into original Denon quality sound.

Advanced AL32 Processing and high-precision 32-bit/192 kHz D/A converter // Denon S.V.H. (Suppress Vibration Hybrid)- mechanism // DAC master clock design, to suppress jitter and noise // Power section with digital and analog circuitry isolate from transformer coils // Minimum signal paths, to protect signal purity // Precision Direct Mechanical Ground Construction, to thoroughly suppress vibration // Parts with a track record for high sound quality // USB Port for mass storage devices and iPod Direct Playback // System remote control unit to control not only the CD player but also an amplifier // Low power consumption at stand-by 0.1 W (Eco Standby) // Available in premium silver



## PMA-1510AE INTEGRATED AMPLIFIER

This power amplifier comes with Ultra-High-Current MOS single Push-Pull circuit, which guarantees the perfect balance between power and detail.

Ultra-High Current (UHC)-MOS Single Push-Pull Circuit, for balancing details and power // 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 // Minimum signal paths, to protect signal purity // High-grade volume control for precise adjustment // Newly-developed heat sink, to suppress vibration caused by resonance point // Microprocessor Stop Mode, for a pure sound // Parts strictly selected for high sound quality // Gold-plated speaker terminals // High-performance phono equaliser // Available in premium silver





## DCD-720AE CD-PLAYER

Pure CD-Player with reliable premium technology like original Denon AL32 Processing for crystal clear and detailed playback, and additional 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 // Available in black and premium silver

AL32 PROCESSING  MP3 WMA  

## PMA-720AE INTEGRATED AMPLIFIER

Thoroughly constructed mid range amplifier which incorporates core elements of the Denon HiFi sound tool box. Amongst others a high-speed, high-capacity power supply.

Advanced High Current (HC) Single-Push-Pull Circuit 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 // Phono Equalizer Amp (MM), for connecting an analogue record player // PRE OUT jack, for future upgrades // Headphone jack // Aluminium panel design, befitting the elegance of an audio component // Available in black and premium silver

ADVANCED *High Current* SINGLE PUSH-PULL CIRCUIT  SIGNAL LEVEL DIMMED CONSTRUCTION

# FEEL IT



## DCD-520AE CD-PLAYER

Solidly designed CD-Player, with new 32-bit / 192 kHz D/A converter, that delivers all the basic features and techniques of the renowned Denon premium quality.

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 // Available in black and premium silver



## PMA-520AE INTEGRATED AMPLIFIER

Building the perfect match for the DCD-520AE, this solid amplifier fulfils all your basic needs to perfection. Now with a new high-speed and high-capacity power supply circuit and a classy aluminium front panel design, befitting the elegance of an audio component.

Advanced High Current (HC) Single-Push-Pull Circuit 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





## DNP-720AE NETWORK AUDIO PLAYER

Unlock the power of network for your existing Hi-Fi-system. The new network audio player DNP-720AE is the key to enjoying all network benefits with your beloved stereo system. It easily opens the way for internet streaming both wireless and ethernet, as well as the use of AirPlay with your iPod touch, iPad or iPhone.

Network audio player with integrated analogue FM/AM tuner // 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 // Windows 7 certified for "Play to" from WMP12 or higher // Supports WMA / MP3 / WAV / AAC / FLAC / WMA lossless (Transcode) / FLAC HD 96/24 // Internet radio by vTuner and last.fm\* online support // Denon Remote App for iOS and Android // Direct play for iPod and iPhone via USB // High quality 24-bit / 192 kHz audio digital to analog converters // Audio parts strictly selected for high quality sound // Available in black and premium silver // \* This feature is not available in all countries.



Check out the video for more info.  
[www.denon.eu/DNP-720AE](http://www.denon.eu/DNP-720AE)



# FREELIT

## DRA-700AE STEREO RECEIVER AM/FM TUNER WITH 2 X 105 W PERFORMANCE

Powerful Stereo-Receiver with signal level divided construction for interference free performance and convenient special features.

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



**SLDC** SERIAL LEVEL DIVIDED CONSTRUCTION // **Multi Zone** Home Entertainment Component // **RDS** // **RadioTEXT**



## DRA-500AE AM/FM STEREO RECEIVER

Stereo-Receiver that meets all basic demands in best quality.

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

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

## TU-1510AE AM/FM STEREO TUNER

With the 1510AE, Denon salutes the classic radio enthusiasts. Perfection in reliability and functionality.

Rotary knob, for easy tuning and preset operation // Easy-to-read dot matrix and 2-line FL display // Low-impedance output circuit for high quality sound // Easy-to-use, dedicated remote control unit // Preset memory for a total of 100 FM/AM stations, and Auto preset memory for automatically scanning and storing stations that can be received // Up to 8 alphanumerics can be stored for displaying station call letters, nicknames, or other information. // Available in black and premium silver

**RDS** // **RadioTEXT**





## DP-300F TURNTABLE

Vinyl is no longer a nostalgic leftover from the past, but an increasingly desired format of musical entertainment. So whether you want to rediscover your old favourites or have always been a vinyl lover, the high-precision DP-300F is the right choice for you.

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

The perfect way to transmit your analogue treasures into the digital age, the DP-200USB allows you to import tracks from vinyl to USB memory.

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.

# FEEL IT





## DP-29F TURNTABLE

Pure, clear and effective, this basic turntable meets the Denon standards.

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

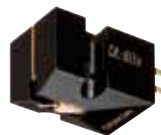
### DL-103 MC CARTRIDGE



### DL-110 HIGH OUTPUT MC CARTRIDGE



### DL-103R MC CARTRIDGE



### DL-304 MC CARTRIDGE



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

CEOL





## DESIGNED TO LIBERATE.

The freedom of sound is back with the new Denon GEOL network music system. A sleek and stylish design bears its native talent for network functionality. Experience connectivity, Internet radio, network audio streaming, AirPlay and WiFi just the way you like it – in original Denon sound.

This applies to its new born sibling, too – GEOL Piccolo – the smallest big thing of the year. It includes all the talents of the original, except for the CD drive and analogue tuner. The modern way to liberate versatile music entertainment, it's good-looking and thanks to the original Denon sound, even better to listen to.



## CEOL NETWORK MUSIC SYSTEM

Born to work the network, the new CEOL is Denon's next successful answer to today's modern music entertainment. This sleeky designed all-in-one solution comes with embedded AirPlay, a built-in WiFi antenna, gapless playback on 192 kHz 24bit file support and is controllable via the new Denon Remote App from your iPhone, iPod touch, iPad and Android devices. Thanks to its stunning versatility and flexibility, we simply call it 'The Freedom of Sound.'

Network CD-Receiver with WiFi and Ethernet connectivity // Listen to FM radio and play CD, CD-R /CD-RW (WMA or MP3) // iPod/iPhone dock on top supports charging in stand by mode // High-quality sound – full digital processing // 65 W + 65 W, high power output (4 ohms) // DLNA 1.5 certified for reliable audio streaming and wide compatibility // AirPlay direct music streaming from iPad, iPhone, iPod touch and iTunes library // Windows 7 certified for "Play to" from WMP12 or higher // Supports Gapless playback and WMA / MP3 / WAV / AAC / FLAC HD 192/24 // Internet radio by vTuner and support of Spotify\* and last.fm\* online services // Optical digital input for system expansion (TV or other digital gear) // 3 line OLED (Organic Electroluminescence Display) display with high contrast and wide view // Available in high gloss black and white //

\* This feature is not available in all countries // **SC-N8 Speaker System especially designed for CEOL** // 2-Way speaker system with 12cm woofer and 2,5cm soft dome tweeter // MDF wooden cabinet // High gloss finish // Speaker grill // Binding post speaker terminal



Check out the video for more info.  
[www.denon.eu/CEOL](http://www.denon.eu/CEOL)

# FEEL IT



## CEOL PICCOLO NETWORK MUSIC SYSTEM

Ready to join the network with versatile connectivity, internet radio, network audio streaming and WiFi, new CEOL Piccolo is our smallest big thing of the year, equipped with gapless playback technology for immaculate sound entertainment.

Network Amplifier with WiFi and Ethernet connectivity // iPod/iPhone dock on top supports charging in stand by mode // High-quality sound - full digital processing // 65 W + 65 W, high power output (4 ohms) // DLNA 1.5 certified for reliable audio streaming and wide compatibility // AirPlay direct music streaming from iPad, iPhone, iPod touch and iTunes library // Windows 7 certified for "Play to" from WMP12 or higher // Supports Gapless playback and WMA / MP3 / WAV / AAC / FLAC HD 192/24 // Internet radio by vTuner and support of Spotify\* and last.fm\* online services // Optical digital input for system expansion (TV or other digital gear) // 3 line OLED (Organic Electroluminescence Display) display with high contrast and wide view // Available in high gloss black and white // \* This feature is not available in all countries // **SC-N5 Speaker System especially designed for CEOL PICCOLO** // 2-Way speaker system // Compact design - big sound // High gloss finish // Speaker grill





## D-F109 / D-F109DAB

**MINI SYSTEM // DNP-F109 NETWORK AUDIO PLAYER / DRA-F109 / DRA-F109DAB\* RECEIVER / DCD-F109 CD-PLAYER / SC-F109 SPEAKER SYSTEM**

Remodelled to exceed all expectations – again. Serious HiFi quality sound in a compact body, now working on fully digital sound engineering. Embedded AirPlay functionality and the new generation Denon Remote App make it even more comfortable to control this marvellous mini sound system.

**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 and support of last.fm\* online service // 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 (4 ohms) 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.



last.fm



RDS



## D-M39 / D-M39DAB MICRO COMPONENT SYSTEM

Now there's even more Denon in so little space. This micro component system has been continually developed to meet the needs of modern day audio fans. Besides its stunning stereo sound performance, this latest and refined model provides a digitally transmitted play function for iPhone/iPod/iPad via the front USB terminal, which is open to connect to any other USB sound device.

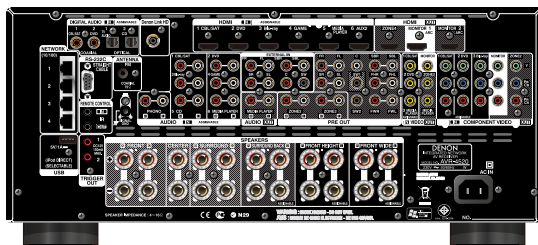
**D-M39 / D-M39DAB\*** // CD-Receiver with 30 W x 2 high power output // Digitally transmitted play function for iDevice (via USB) for best sound quality // Optical digital input for system expansion (TV or other digital gear) // DAB / DAB+ tuner built in\* // UK sound-tuned for serious hi-fi quality // "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.



# FEEL IT

# AV SURROUND AMPLIFIERS AND RECEIVERS

| Technical information                                      |                                 | AVR-4520                                 | AVR-3313   | AVR-2313   | AVR-2113                                       |
|--|---------------------------------|--|--|--|--|
| <b>Power amplifier section</b>                             |                                 |  |  |  |  |
| Type   |                                 | Same quality amplifier for all 9-channel | Same quality amplifier for all 7-channel             | Same quality amplifier for all 7-channel             | Same quality amplifier for all 7-channel       |
| Rated output<br>*T.H.D. figures are power amp stage values |                                 | 6 ohms, 1 kHz,<br>T.H.D. 0.7%            | 6 ohms, 1 kHz,<br>T.H.D. 0.7%                        | 6 ohms, 1 kHz,<br>T.H.D. 0.7%                        | 6 ohms, 1 kHz,<br>T.H.D. 0.7%                  |
| Front (L + R)  |                                 | 170 W + 170 W                            | 165 W + 165 W  | 135 W + 135 W  | 125 W + 125 W                                  |
| Centre (A)   |                                 | 170 W                                    | 165 W  | 135 W  | 125 W  |
| Surround (L + R) (A)                                       |                                 | 170 W + 170 W                            | 165 W + 165 W  | 135 W + 135 W  | 125 W + 125 W                                  |
| Surround Back (L + R)                                      |                                 | 170 W + 170 W                            | 165 W + 165 W  | 135 W + 135 W  | 125 W + 125 W                                  |
| Front Height (L + R)                                       |                                 | 170 W + 170 W                            | -  | -  | -  |
| <b>Amplifier</b>   |                                 |  |  |  |  |
| Full discrete all ch equal power amplifier                 |                                 | •  | •  | •  | •  |
| Wide range frequency                                       |                                 | •  | •  | •  | •  |
| Surround Back ch amplifier assign                          |                                 | Free assign                              | Front B/ Front SP Bi amp/<br>Height/ Wide/ Multizone | Front B/ Front SP Bi amp/ Height/ Wide/<br>Multizone | Front B/ Front SP Bi amp/ Height/<br>Multizone |
| Power amplifier assign                                     |                                 | for zone 2 or 3                          | for zone 2 or 3                                      | for zone 2   | for zone 2                                     |
| <b>FM section</b>  |                                 |  |  |  |  |
| Tuning frequency range /Usable sensitivity                 |                                 | 87.5 - 108.0 MHz/1.2 µV,<br>(12.8 dBf)   | 87.5 - 108 MHz/1.2 µV,<br>(12.8 dBf)                 | 87.5 - 108 MHz/1.2 µV,<br>(12.8 dBf)                 | 87.5 - 108 MHz/1.2 µV,<br>(12.8 dBf)           |
| <b>AM section</b>  |                                 |  |  |  |  |
| Tuning frequency range/Usable sensitivity                  |                                 | -  | -  | -  | -  |
| Power supply   |                                 | AC 230 V, 50 Hz                          | AC 230 V, 50/60 Hz                                   | AC 230 V, 50/60 Hz                                   | AC 230 V, 50/60 Hz                             |
| Power consumption  |                                 | 780 W (Standby: 0.1 W)                   | 670 W (Standby 0.1 W)                                | 600 W (Standby 0.1 W)                                | 500 W (Standby 0.1 W)                          |
| Dimensions (W x H x D)                                     |                                 | 434 x 195 x 421 mm                       | 434 x 167 x 379 mm                                   | 434 x 167 x 379 mm                                   | 434 x 167 x 329 mm                             |
| Weight   |                                 | 19.0 kg                                  | 12 kg  | 10.9 kg  | 9.5 kg   |
| Available colours  |                                 | Premium Silver, Black                    | Premium Silver, Black                                | Black  | Black  |
| <b>Ports</b>   |                                 |  |  |  |  |
|  |                                 | AVR-4520                                 | AVR-3313   | AVR-2313   | AVR-2113                                       |
| <b>IN</b>  | HDMI                            | x 7 (incl. 1 front panel)                | x 7 (incl. 1 front panel)                            | x 6 (incl. 1 front panel)                            | x 6 (incl. 1 front panel)                      |
|  | Component                       | x 3                                      | x 2  | x 2  | x 1  |
|  | Composite (Video)               | x 4 (incl. 1 front panel)                | x 4 (incl. 1 front panel)                            | x 4 (incl. 1 front panel)                            | x 3 (incl. 1 front panel)                      |
|  | Analogue audio (Tuner included) | x 8 (incl. 1 front panel)                | x 6 (incl. 1 front panel)                            | x 6 (incl. 1 front panel)                            | x 5 (incl. 1 front panel)                      |
|  | Analogue EXT. In                | 7.1 ch                                   | -  | -  | -  |
|  | Digital Optical                 | x 2                                      | x 2  | x 2  | x 1  |
|  | Digital Coaxial                 | x 2                                      | x 2  | x 2  | x 1  |
|  | Denon Link HD                   | x 1                                      | x 1  | -  | -  |
| Phono MM   | x 1                             | x 1                                      | -  | -  |  |
| <b>OUT</b>   | HDMI monitor                    | x 2 + Zone4 output                       | x 2 + x Zone2 output                                 | x 2  | x 1  |
|  | Component                       | Monitor x 1<br>Zone2 x 1                 | Monitor x 1  | Monitor x 1  | -  |
|  | Composite                       | Monitor x 1<br>REC x 1<br>Zone2 x 1      | Monitor x 1<br>REC x 1<br>Zone2 x 1                  | Monitor x 1<br>REC x 1<br>-                          | Monitor x 1<br>-                               |
|  | Analogue audio                  | REC x 1<br>Zone 2 x 1<br>Zone 3 x 1      | REC x 1<br>Zone 2 x 1<br>Zone 3 x 1                  | REC x 1<br>Zone 2 x 1<br>-                           | -<br>-   |
|  | Analogue preout                 | 11.2 ch                                  | 7.2 ch   | 7.2 ch   | 0.1 ch   |
|  | Phones                          | x 1                                      | x 1  | x 1  | x 1  |
|  | <b>OTHER</b>                    | Trigger +12 V, 250 mA                    | x 2 (150 mA)   | x 2 (150 mA)   | x 1 (150mA)                                    |
| RS-232C / IP control                                       | 1 / 1                           | 1 / 1                                    | 1 / 1  | 1 / 1  | - / 1  |
| Tuner antenna AM/FM  | - / 1                           | - / 1                                    | - / 1  | - / 1  | - / 1  |
| Remote In/Out  | 1 / 1                           | 1 / 1                                    | 1 / 1  | 1 / 1  | -  |
| Ethernet   | x 4                             | x 1                                      | x 1  | x 1  | x 1  |
| USB  | x 2 (front or backpanel)        | x 1 (front panel)                        | x 1 (front panel)                                    | x 1 (front panel)                                    | x 1 (front panel)                              |
| Setup mic  | x 1                             | x 1                                      | x 1  | x 1  | x 1  |



AVR-4520



AVR-3313



AVR-2313



AVR-2113



**Technical information**

|  | AVR-1713                                 | AVR-1513                                 | AVR-1312                                 |
|--|--|--|--|
| <b>Power amplifier section</b>                             |  |  |  |
| Type   | Same quality amplifier for all 5-channel | Same quality amplifier for all 5-channel | Same quality amplifier for all 5-channel |
| Rated output<br>*T.H.D. figures are power amp stage values | 6 ohms, 1 kHz, T.H.D. 0.7%               | 6 ohms, 1 kHz, T.H.D. 0.7%               | 6 ohms, 1 kHz, T.H.D. 0.7%               |
| Front (L + R)  | 120 W + 120 W                            | 110 W + 110 W                            | 110 W + 110 W                            |
| Centre (A)   | 120 W                                    | 110 W                                    | 110 W                                    |
| Surround (L + R) (A)                                       | 120 W + 120 W                            | 110 W + 110 W                            | 110 W + 110 W                            |
| Surround Back (L + R)                                      | -  | -  | -  |
| Front Height (L + R)                                       | -  | -  | -  |
| <b>Amplifier</b>   |  |  |  |
| Full discrete all ch equal power amplifier                 | •  | •  | •  |
| Wide range frequency                                       | •  | •  | •  |
| Surround Back ch amplifier assign                          | Front B/Front SP Bi amp/Height/Multizone | -  | -  |
| Power amplifier assign                                     | for zone 2                               | -  | -  |
| <b>FM section</b>  |  |  |  |
| Tuning frequency range /Usable sensitivity                 | 87.5 - 108 MHz/1.2 µV, (12.8 dBf)        | 87.5 - 108 MHz/1.2 µV, (12.8 dBf)        | 87.5 - 108 MHz/1.2 µV, (12.8 dBf)        |
| <b>AM section</b>  |  |  |  |
| Tuning frequency range/Usable sensitivity                  | -  | 522 - 1611 kHz/18 µV                     | 522 - 1611 kHz/18 µV                     |
| <b>Power supply</b>  |  |  |  |
|  | AC 230 V, 50/60 Hz                       | AC 230 V, 50/60 Hz                       | AC 230 V, 50 Hz                          |
| <b>Power consumption</b>                                   |  |  |  |
|  | 390 W (Standby 0.1 W)                    | 330 W (Standby 0.5 W)                    | 330 W (Standby 0.5 W)                    |
| <b>Dimensions (W x H x D)</b>                              |  |  |  |
|  | 434 x 151 x 329 mm                       | 434 x 151 x 319 mm                       | 434 x 162 x 382 mm                       |
| <b>Weight</b>  |  |  |  |
|  | 8.3 kg                                   | 7.8 kg                                   | 8.9 kg                                   |
| <b>Available colours</b>                                   |  |  |  |
|  | Black                                    | Black                                    | Black                                    |

**Ports**

|                 |                                 | AVR-1713                  | AVR-1513                                     | AVR-1312                                     |
|-----------------|---------------------------------|---------------------------|--|--|
| <b>IN</b>       | HDMI                            | x 4 (incl. 1 front panel) | x 4  | x 4  |
|                 | Component                       | -                         | -  | -  |
|                 | Composite (Video)               | x 2                       | x 2  | x 3 (incl. 1 front panel)                    |
|                 | Analogue audio (Tuner included) | x 2                       | x 3 (incl. 1 stereo mini/RCA on front panel) | x 5 (incl. 1 stereo mini/RCA on front panel) |
|                 | Analogue EXT. In                | -                         | -  | -  |
|                 | Digital Optical                 | x 1                       | x 1  | x 1  |
|                 | Digital Coaxial                 | x 1                       | x 1  | x 1  |
|                 | Denon Link HD                   | -                         | -  | -  |
|                 | Phono MM                        | -                         | -  | -  |
|                 | <b>OUT</b>                      | HDMI monitor              | x 1  | x 1  |
| Component       |                                 | -                         | -  | -  |
| Composite       |                                 | Monitor x 1               | Monitor x 1                                  | Monitor x 1                                  |
| -               |                                 | -                         | -  | -  |
| -               |                                 | -                         | -  | -  |
| Analogue audio  |                                 | -                         | -  | -  |
| -               |                                 | -                         | -  | -  |
| -               |                                 | -                         | -  | -  |
| Analogue preout |                                 | 0.1 ch                    | 0.1ch  | 2.1 ch                                       |
| Phones          |                                 | x 1                       | x 1  | x 1  |
| <b>OTHER</b>    | Trigger +12 V, 250 mA           | -                         | -  | -  |
|                 | RS-232C / IP control            | - / 1                     | -  | -  |
|                 | Tuner antenna AM/FM             | - / 1                     | - / 1  | 1 / 1  |
|                 | Remote In/Out                   | -                         | -  | -  |
|                 | Ethernet                        | x 1                       | -  | -  |
|                 | USB                             | x 1 (front panel)         | -  | -  |
|                 | Setup mic                       | x 1                       | -  | -  |



AVR-1713



AVR-1513



AVR-1312

# AV SURROUND AMPLIFIERS AND RECEIVERS

## Features

|   | AVR-4520   | AVR-3313   | AVR-2313   | AVR-2113   |
|---|--|--|--|--|
| <b>Common features</b>                      | HDMI (supporting 4k, 3D, Audio Return Channel, Deep Color, x.v.Color, Auto Lipsync) // HDMI One Cable Connection (Analogue Video to HDMI Up Conversion) // Fully discrete built amplifier stage // Stable power supply for high-quality sound and picture playback // DLNA Network Audio Streaming and Internetradio // Gapless playback <sup>1</sup> // FLAC 192/24 support // AirPlay streaming from Apple device // Compressed Audio Restorer to enhance digital music files (WMA / MP3 / MPEG-4 AAC) // Control by iOS and Android App // Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance // Minimum Signal Path for clear audio and video signal // Audyssey Dynamic Volume, for real-time volume adjustment // Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment // HDMI CEC // Dolby TrueHD and DTS-HD Master Audio decoders // Dolby Pro Logic IIz processing // Audio Delay // Cinema EQ // Personal Memory Plus // Quick select buttons // Multilingual Setup Assistant // GUI / OSD overlay on HDMI // Sleep timer function // Tuner with RadioText and RDS // Multi channel stereo mode // All channel binding post speaker terminal |  |  |  |
| <b>HDMI Functionality</b>                   |  |  |  |  |
| 3D support                                  | •  | •  | •  | •  |
| ARC (Audio Return Channel) support          | •  | •  | •  | •  |
| 4k video scaling and switching              | •  | •  | •  | •  |
| <b>Surround format</b>                      |  |  |  |  |
| THX ULTRA 2 / SURROUND EX                   | -  | -  | -  | -  |
| DOLBY                                       | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II / IIx / IIz  | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II / IIx / IIz            | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II / IIx / IIz            | TrueHD<br>Digital Plus<br>Digital<br>Digital EX<br>Pro Logic II / IIx / IIz            |
| DTS   | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6   | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6 | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6 | HD High Resolution Audio<br>HD Master Audio<br>ES Discrete6.1<br>ES Matrix6.1<br>Neo:6 |
| Audyssey DSX                                | •  | •  | •  | -  |
| DTS 96/24                                   | •  | •  | •  | •  |
| <b>Processor &amp; converter</b>            |  |  |  |  |
| 32-bit floating point DSP                   | High grade x2  | High grade x1  | x1   | x1   |
| 192 kHz/24-bit D/A Converter for all ch     | •  | •  | •  | •  |
| <b>Circuit &amp; construction</b>           |  |  |  |  |
| DDSC-Digital                                | •  | •  | -  | -  |
| AL24 Processing                             | AL32 Multi   | Plus   | -  | -  |
| Pure direct                                 | •  | •  | •  | •  |
| Denon Link HD                               | •  | •  | -  | -  |
| Clock Jitter Reducer                        | •  | •  | -  | -  |
| <b>Set up &amp; operation</b>               |  |  |  |  |
| Auto setup with microphone                  | •  | •  | •  | •  |
| Room EQ                                     | • (Audyssey MultEQ XT32)   | • (Audyssey MultEQ XT)   | • (Audyssey MultEQ XT)   | • (Audyssey MultEQ XT)   |
| Dynamic EQ/Volume                           | •  | •  | •  | •  |
| User interface                              | Advanced GUI   | Advanced GUI   | Advanced GUI   | Advanced GUI   |
| GUI/OSD overlay on HDMI                     | •  | •  | •  | •  |
| Setup Assistant / Language                  | • / 9 languages  | • / 7 languages  | • / 7 languages  | • / 7 languages  |
| Personal memory plus                        | •  | •  | •  | •  |
| Quick Select buttons                        | 4  | 4  | 4  | 4  |
| <b>Others</b>                               |  |  |  |  |
| Network music/photo streaming               | Wired LAN  | Wired LAN  | Wired LAN  | Wired LAN  |
| Supported Formats                           | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  |
| Gapless playback                            | •  | • (update)   | • (update)   | • (update)   |
| Album Art Browsing                          | •  | •  | •  | •  |
| AirPlay                                     | •  | •  | •  | •  |
| Internet Radio                              | vTuner (MP3/WMA)   | vTuner (MP3/WMA)   | vTuner (MP3/WMA)   | vTuner (MP3/WMA)   |
| Spotify <sup>*</sup> / last.fm <sup>*</sup> | • / •  | • / •  | • / •  | • / •  |
| Denon Remote App                            | •  | •  | •  | •  |
| iPod/USB Direct Play                        | • / •  | • / •  | • / •  | • / •  |
| Supported Formats USB                       | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  | MP3 / WAV / AAC / WMA /<br>FLAC / FLAC 192/24  |
| Multi Zone/Multi Source                     | 3 / 3  | 3 / 3  | 2 / 2  | 2 / 2  |
| Audio delay                                 | •  | •  | •  | •  |
| Variable subwoofer crossover switching      | 40/60/80/90/100/<br>110/120/150/200/250Hz  | 80/90/100/<br>110/120/150/200/250Hz  | 80/90/100/<br>110/120/150/200/250Hz  | 80/90/100/<br>110/120/150/200/250Hz  |
| Analogue video to HDMI Up conversion        | •  | •  | •  | •  |
| Video scaler                                | up to 4k   | up to 4k   | up to 4k   | up to 4k   |
| Component video band width                  | 60 MHz   | 60 MHz   | 60 MHz   | -  |
| ALL ch binding post SP terminal             | •  | •  | •  | •  |
| Tuner                                       | •  | •  | •  | •  |
| RDS (radio data system)                     | •  | •  | •  | •  |
| Radio Text                                  | •  | •  | •  | •  |
| Multi channel stereo mode                   | •  | •  | •  | •  |
| Firmware update by USB and Network          | •  | •  | •  | •  |

<sup>\*</sup> Service not in all countries available – Subscription required

<sup>1</sup> This function needs to upgrade in autumn



| AVR-1713   | AVR-1513   | AVR-1312  |
|--|--|---|
| HDMI (supporting 3D, Audio Return Channel, Deep Color, x.v.Color, Auto Lipsync) // Fully discrete built amplifier stage // Stable power supply for high-quality sound and picture playback // DLNA Network Audio Streaming and Internetradio // Gapless playback <sup>1</sup> // FLAC 192/24 support // AirPlay streaming from Apple device // Compressed Audio Restorer to enhance digital music files (WMA / MP3 / MPEG-4 AAC) // Control by iOS and Android App // Direct Mechanical Ground Construction, embodying concepts for thorough vibration resistance // Minimum Signal Path for clear audio and video signal // Audyssey Dynamic Volume, for real-time volume adjustment // Audyssey Dynamic EQ selects the correct frequency response and surround volume levels on a moment by moment // HDMI CEC // Dolby TrueHD and DTS-HD Master Audio (5.1ch) decoders // Dolby Pro Logic IIz processing // Audio Delay // Cinema EQ // Personal Memory Plus // Quick select buttons // Multilingual Setup Assistant // GUI / OSD overlay on HDMI // Sleep timer function // Tuner with RadioText and RDS // Multi channel stereo mode // All channel binding post speaker terminal | HDMI (supporting 3D, Deep Color and "x.v.Color") // Fully discrete built amplifier stage // Stable power supply for high-quality sound and picture playback // Front HDMI input // Four quick select buttons // Compressed Audio Restorer to enhance digital music files (WMA/MP3/MPEG-4 AAC) // Minimum Signal Path for clear audio and video signal // OSD overlay on HDMI // Dolby TrueHD and DTS-HD Master Audio (5.1ch) decoders // Dolby Pro Logic II processing // Night mode // Audio Delay // Personal Memory Plus // Sleep timer function // Tuner with RadioText and RDS // Multi channel stereo mode // Auto standby | Fully discrete built amplifier stage // Stable power supply for high-quality sound and picture playback // Four quick select buttons // Compressed Audio Restorer to enhance digital music files (WMA/MP3) // Minimum Signal Path for clear audio and video signal // OSD overlay on HDMI |
| •  | •  | •   |
| •  | -  | -   |
| -  | -  | -   |
| -  | -  | -   |
| TrueHD   | TrueHD   | TrueHD  |
| Digital Plus   | Digital Plus   | Digital Plus  |
| Digital  | Digital  | Digital   |
| Digital EX   | Digital EX   | Digital EX  |
| Pro Logic II   | Pro Logic II   | Pro Logic II/IX   |
| HD High Resolution Audio   | HD High Resolution Audio   | HD High Resolution Audio  |
| HD Master Audio (5.1)  | HD Master Audio (5.1)  | HD Master Audio   |
| Digital Surround   | Digital Surround   | ES Discrete6.1  |
| Express  | Express  | ES Matrix6.1  |
| Neo:6  | Neo:6  | Neo:6   |
| -  | -  | -   |
| •  | •  | •   |
| x1   | -  | -   |
| •  | •  | •   |
| -  | -  | -   |
| -  | -  | -   |
| -  | -  | -   |
| -  | -  | -   |
| -  | -  | -   |
| •  | -  | -   |
| • (Audyssey MultEQ XT32)   | -  | -   |
| •  | -  | -   |
| GUI  | GUI  | GUI   |
| •  | •  | •   |
| • / 3 languages (ENG / GER / FR)   | - / ENG  | - / ENG   |
| •  | •  | •   |
| 4  | 4  | 4   |
| Wired LAN  | -  | -   |
| MP3/WAV/AAC/WMA/<br>FLAC / FLAC 192/24   | -  | -   |
| • (update)   | -  | -   |
| •  | -  | -   |
| •  | -  | -   |
| vTuner (MP3/WMA)   | -  | -   |
| - / •  | -  | -   |
| •  | -  | -   |
| • / •  | - / -  | - / -   |
| MP3/WAV/AAC/WMA/<br>FLAC/FLAC 192/24   | -  | -   |
| - / -  | - / -  | - / -   |
| •  | •  | •   |
| 80/90/100/<br>110/120/150/200/250Hz  | -  | 80/90/100/<br>110/120/150/200/250Hz   |
| -  | -  | -   |
| -  | -  | -   |
| •  | -  | •   |
| •  | •  | •   |
| •  | •  | •   |
| •  | •  | •   |
| •  | •  | •   |
| •  | -  | -   |



# HOME THEATRE SYSTEM

| Technical information          |   |
|--------------------------------|---|
| DHT-1312XP                     |   |
| AVR-1312                       |   |
| <b>Power amplifier section</b> |   |
| Rated output                   | *T.H.D. figures are power amp stage values.   |
| Front L/R                      | 110 W + 110 W<br>(6 ohms, 1 kHz, T.H.D. 0.7%) |
| Centre                         | 110 W<br>(6 ohms, 1 kHz, T.H.D. 0.7%)         |
| Surround L/R                   | 110 W + 110 W<br>(6 ohms, 1 kHz, T.H.D. 0.7%) |
| <b>Preamplifier section</b>    |   |
| Input sensitivity/impedance    | 200 mV / 47 kohms                             |
| Frequency response             | 10 Hz ~ 100 kHz — 0, -3 dB<br>(DIRECT mode)   |
| S/N Ratio                      | 98 dB (HF-A weighted, DIRECT mode)            |
| <b>FM section</b>              |   |
| Tuning frequency range         | 87.5 - 108 MHz                                |
| Usable sensitivity             | 1.2 µV (12.8 dBf)                             |
| <b>AM section</b>              |   |
| Tuning frequency range         | 522 - 1611 kHz                                |
| Usable sensitivity             | 18 µV   |
| <b>General</b>                 |   |
| Power supply                   | AC 230 V, 50 Hz/60 Hz                         |
| Power consumption              | 330 W (Standby 0.5 W)                         |
| Dimensions (W x H x D)         | 434 x 162 x 382 mm                            |
| Weight                         | 8.9 kg  |
| Available colours              | Black   |
| SC-F1312 (FR / FL / SR / SL)   |   |
| Type                           | Full-range, 1 speaker                         |
| Frequency range                | 150 Hz - 20 kHz                               |
| Input impedance                | 6 ohms  |
| Dimensions (W x H x D)         | 105 x 200 x 150 mm                            |
| Weight                         | 0.8 kg  |
| SC-C1312 (centre)              |   |
| Type                           | Full-range, 1 speaker                         |
| Frequency range                | 150 Hz - 20 kHz                               |
| Input impedance                | 6 ohms  |
| Dimensions (W x H x D)         | 200 x 105 x 150 mm                            |
| Weight                         | 0.8 kg  |
| DSW-1312 (subwoofer)           |   |
| Type                           | Built-in amplifier                            |
| Frequency range                | 35 Hz - 150 Hz                                |
| Dynamic power                  | 100 W   |
| Input impedance                | 22 kohms                                      |
| Power supply                   | 230 V/50 Hz                                   |
| Power consumption              | 65 W  |
| Dimensions (W x H x D)         | 250 x 387 x 420 mm                            |
| Weight                         | 11 kg   |



AVR-1312

## BLU-RAY/UNIVERSAL TRANSPORTERS

| Technical information   |                                     |                                     |
|---|-------------------------------------|-------------------------------------|
|   | DBT-3313UD                          | DBT-1713UD                          |
| <b>Video</b>  |                                     |                                     |
| Signal system   | PAL/NTSC                            | PAL/NTSC                            |
| <b>Audio</b>  |                                     |                                     |
| S/N   | 125 dB                              | 115 dB                              |
| Total harmonic distortion   | 0.0008%                             | 0.0025%                             |
| Dynamic range   | 110 dB                              | 100 dB                              |
| <b>General</b>  |                                     |                                     |
| Power supply  | AC 100 - 240 V, 50/60 Hz            | AC 100 - 240 V, 50/60 Hz            |
| Power consumption   | 28 W (Energy Saving Standby: 0.3 W) | 20 W (Energy Saving Standby: 0.3 W) |
| Dimensions W x H x D (incl. protrusions)  | 434 x 115 x 295 mm                  | 434 x 108 x 295 mm                  |
| Weight  | 6.9 kg                              | 4.9 kg                              |
| Available colours   | Premium Silver, Black               | Black                               |
| <b>Features</b>   |                                     |                                     |
| <b>HDMI Functionality</b>   |                                     |                                     |
| 3D support  | •                                   | •                                   |
| <b>Decoder</b>  |                                     |                                     |
| DOLBY TrueHD (Bitstream/LPCM)   | •/•                                 | •/•                                 |
| DOLBY Digital Plus (Bitstream/LPCM)   | •/•                                 | •/•                                 |
| DTS HD Master Audio (Bitstream/LPCM)  | •/•                                 | •/•                                 |
| DTS HD High Resolution Audio (Bitstream/LPCM)   | •/•                                 | •/•                                 |
| DOLBY Digital (Bitstream/LPCM)  | •/•                                 | •/•                                 |
| DTS (Bitstream/LPCM)  | •/•                                 | •/•                                 |
| <b>Processor &amp; Converter</b>  |                                     |                                     |
| Audio DAC   | 192 kHz/32-bit                      | 192 kHz/24-bit                      |
| PAL/NTSC  | •/•                                 | •/•                                 |
| <b>Construction &amp; Circuit</b>   |                                     |                                     |
| Multi layered construction  | •                                   | -                                   |
| Loader mechanism  | SVH                                 | -                                   |
| Pure direct   | •                                   | •                                   |
| <b>Video output terminals</b>   |                                     |                                     |
| HDMI <sup>(1)</sup>   | 2                                   | 1                                   |
| <b>Audio output terminals</b>   |                                     |                                     |
| Denon Link HD   | •                                   | -                                   |
| Analogue  | 2 ch x 1                            | 2 ch x 1                            |
| HDMI multi channel audio <sup>(1)</sup>   | •                                   | •                                   |
| <b>Playable discs <sup>(2)</sup></b>  |                                     |                                     |
| BD-Video  | •                                   | •                                   |
| Super audio CD  | •                                   | •                                   |
| DVD-Audio   | •                                   | •                                   |
| DVD-Video   | •                                   | •                                   |
| DVD-R/RW/DVD+R/RW   | •                                   | •                                   |
| CD-R/RW (MP3/WMA/AAC/DivX/JPEG/Kodak Picture CD) DVD-R/RW (MP3/WMA/AAC/DivX/AVCHD/JPEG) | •                                   | •                                   |
| DivX contents   | DivX Plus HD                        | DivX Plus HD                        |
| <b>Network</b>  |                                     |                                     |
| Ethernet capability   | •                                   | •                                   |
| Network Server  | DLNA/WMP11 (audio/video/picture)    | DLNA/WMP11 (audio/video/picture)    |
| Audio file  | MP3 / WAV / AAC / WMA / FLAC 192/24 | MP3 / WAV / AAC / WMA / FLAC 192/24 |
| Video file  | DivX Plus HD, MPEG2, H264, VC-1     | DivX Plus HD, MPEG2, H264, VC-1     |
| Picture file  | JPEG                                | JPEG                                |
| Online Contents Service   | YouTube / Netflix <sup>(3)</sup>    | YouTube / Netflix <sup>(3)</sup>    |
| <b>Memory</b>   |                                     |                                     |
| Type  | built-in & USB port                 | built-in & USB port                 |
| <b>Power Consumption</b>  |                                     |                                     |
| Play Mode (Max.)  | 28 W                                | 20 W                                |
| Power Saving Standby  | 0.3 W                               | 0.3 W                               |
| Normal Standby  | 0.5 W                               | 0.5 W                               |

<sup>(1)</sup> 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.

<sup>(2)</sup> Discs that have been poorly finalised following recording may be only partially playable or not playable at all.

<sup>(3)</sup> Service not in all countries available - Subscription required



DBT-3313UD



DBT-1713UD

## SPEAKER DOCKS

| Technical information   |                                    |                             |
|---|------------------------------------|-----------------------------|
|   | Cocoon Home                        | Cocoon Portable             |
| <b>Features</b>   |                                    |                             |
| Dock for iPod / iPhone / iPad                                   | • / • / •                          | • / • / -                   |
| AirPlay wireless music streaming                                | •                                  | •                           |
| Wireless music streaming from Android                           | •                                  | •                           |
| Network Audio Streaming   | •                                  | •                           |
| Compatible streaming file types (MP3 / WMA / WAV / FLAC / LPCM) | • / • / • / • / •                  | • / • / • / • / •           |
| Built-in Internet radio   | •                                  | •                           |
| Internet radio presets  | 3                                  | 3                           |
| Network (Ethernet port / Built-in WiFi)                         | • / •                              | • / •                       |
| NetLink Auto Network Setup                                      | •                                  | •                           |
| Analog audio input  | 3.5 mm stereo jack                 | 3.5 mm stereo jack          |
| USB input   | •                                  | -                           |
| Display   | •                                  | •                           |
| Clock   | •                                  | •                           |
| Sleep Timer   | via App                            | via App                     |
| Rechargeable battery (5 hours)                                  | -                                  | •                           |
| Portable (integrated carrying handle)                           | -                                  | •                           |
| Water resistant (outdoor use)                                   | -                                  | •                           |
| Repository for Remote Control                                   | -                                  | •                           |
| <b>Specifications</b>   |                                    |                             |
| Amplifiers  | 4x 25 W, Class D                   | 2x 25 W, Class D            |
| Drivers   | 2x 40 mm tweeter, 2x 100 mm woofer | 2x 100 mm Full Range Driver |
| Loudness  | •                                  | •                           |
| <b>Control</b>  |                                    |                             |
| Control buttons   | Touch sensitive                    | Touch sensitive             |
| Remote APP: iDevice / Android                                   | • / •                              | • / •                       |
| RS232 control over IP   | •                                  | •                           |
| Web browser   | •                                  | •                           |
| <b>General</b>  |                                    |                             |
| Remote Control  | •                                  | •                           |
| Power Consumption   | 33 W                               | 20 W                        |
| Standby Consumption   | 0.5 W                              | 0.5 W                       |
| Power supply  | 230 V, 50 Hz                       | 230 V, 50 Hz                |
| Dimensions (W x H x D)  | 451 x 236 x 170                    | 352 x 180 x 136             |
| Weight  | 5.4 kg                             | 3.3 kg                      |
| Available colours   | White, Black                       | Black                       |



Cocoon Home



Cocoon Portable

# INTEGRATED AMPLIFIERS

| Technical information                          |   |   |   |   |
|--|---|---|---|---|
|  | PMA-2020AE  | PMA-1510AE  | PMA-720AE   | PMA-520AE   |
| <b>Power amplifier section</b>                 |   |   |   |   |
| <b>Rated output power</b>                      |   |   |   |   |
| 8 ohms   | 80 W + 80 W<br>(20 Hz - 20 kHz, 8 ohms, T.H.D. 0.07%) | 70 W + 70 W<br>(20 Hz - 20 kHz, 8 ohms, T.H.D. 0.07%) | 50 W + 50 W<br>(20 Hz - 20 kHz, 8 ohms, T.H.D. 0.07%) | 45 W + 45 W<br>(20 Hz - 20 kHz, 8 ohms, T.H.D. 0.07%) |
| 4 ohms   | 160 W + 160 W<br>(1 kHz, 4 ohms, T.H.D. 0.7%)         | 140 W + 140 W<br>(1 kHz, 4 ohms, T.H.D. 0.7%)         | 85 W + 85 W<br>(1 kHz, 4 ohms, T.H.D. 0.7%)           | 70 W + 70 W<br>(1 kHz, 4 ohms, T.H.D. 0.7%)           |
| <b>Total harmonic distortion</b>               | 0.01% (rated output -3 dB, 8 ohms, 1 kHz)             | 0.01% (rated output -3 dB, 8 ohms, 1 kHz)             | 0.01%<br>(8 ohms, 1 kHz)                              | 0.02%<br>(8 ohms, 1 kHz)                              |
| <b>Pre amplifier section</b>                   |   |   |   |   |
| <b>Input sensitivity/impedance</b>             |   |   |   |   |
| PHONO MC                                       | 0.2 mV/100 ohms                                       | 0.2 mV/100 ohms                                       | -   | -   |
| PHONO MM                                       | 2.5 mV/47 kohms                                       | 2.5 mV/47 kohms                                       | 2.5 mV/47 kohms                                       | 2.5 mV/47 kohms                                       |
| LINE   | 135 mV/47 kohms<br>(Source Direct: OFF)               | 125 mV/45 kohms<br>(Source Direct: OFF)               | 120 mV/45 kohms<br>(Source Direct: OFF)               | 120 mV/45 kohms<br>(Source Direct: OFF)               |
| <b>General characteristics</b>                 |   |   |   |   |
| <b>Signal-to-noise ratio</b>                   |   |   |   |   |
| PHONO MC                                       | 74 dB (0.5 mV input)                                  | 74 dB (0.5 mV input)                                  | -   | -   |
| PHONO MM                                       | 89 dB (5 mV input)                                    | 89 dB (5 mV input)                                    | 86 dB (5 mV input)                                    | 84 dB (5 mV input)                                    |
| LINE   | 108 dB (source Direct: ON)                            | 108 dB  | 107 dB (source Direct: OFF)                           | 105 dB (Source Direct: ON)                            |
| <b>Tone control</b>                            |   |   |   |   |
| Treble   | ± 8 dB at 10 kHz                                      | ± 8 dB at 10 kHz                                      | ± 8 dB at 10 kHz                                      | ± 8 dB at 10 kHz                                      |
| Bass   | ± 8 dB at 100 Hz                                      | ± 8 dB at 100 Hz                                      | ± 8 dB at 100 Hz                                      | ± 8 dB at 100 Hz                                      |
| <b>General</b>                                 |   |   |   |   |
| Power supply                                   | AC 230 V, 50 Hz                                       | AC 230 V, 50 Hz                                       | AC 230 V, 50/60 Hz                                    | AC 230 V, 50/60 Hz                                    |
| Power consumption                              | 310 W (Standby: less than 0.3 W)                      | 285 W (Standby: 0.2 W)                                | 200 W (Standby: less than 0.3 W)                      | 185 W (Standby: less than 0.3 W)                      |
| Dimensions (W x H x D)                         | 434 x 181 x 435 mm                                    | 434 x 134 x 410 mm                                    | 434 x 121 x 308 mm                                    | 434 x 121 x 308 mm                                    |
| Weight   | 24.0 kg   | 15.5 kg   | 7.1 kg  | 6.8 kg  |
| Available colours                              | Premium Silver  | Premium Silver, Black                                 | Premium Silver, Black                                 | Premium Silver, Black                                 |
| <b>Features</b>                                |   |   |   |   |
| <b>UHC-MOS single push pull circuit</b>        | • (Advanced)  | •   | -   | -   |
| <b>Advanced HC-TR single push pull circuit</b> | -   | -   | •   | •   |
| <b>LC mounted twin transformer</b>             | •   | •   | -   | -   |
| <b>Wide range amplifier</b>                    | •   | •   | •   | •   |
| <b>High current dynamic power supply</b>       | •   | •   | •   | •   |
| <b>Power amp discrete construction</b>         | •   | •   | •   | •   |
| <b>Phono MC</b>                                | •   | •   | -   | -   |
| <b>MM</b>                                      | •   | •   | •   | •   |
| <b>Audio input</b>                             | 7   | 6   | 6   | 6   |
| <b>Rec output</b>                              | 2   | 2   | 1   | 1   |
| <b>Pre Out</b>                                 | •   | •   | •   | -   |
| <b>REC out select</b>                          | -   | •   | -   | -   |
| <b>Source direct</b>                           | •   | •   | •   | •   |
| <b>Tone control</b>                            | •   | •   | •   | •   |
| <b>Power amp direct mode</b>                   | •   | •   | -   | -   |
| <b>Micro processor auto off</b>                | •   | •   | •   | •   |



PMA-1510AE



PMA-720AE



PMA-520AE

## CD/SACD-PLAYERS

| Technical information                 |                                    |                        |                                 |                        |
|---------------------------------------|------------------------------------|------------------------|---------------------------------|------------------------|
|                                       | DCD-2020AE                         |                        | DCD-1510AE                      |                        |
|                                       | Super Audio CD                     | CD                     | Super Audio CD                  | CD                     |
| <b>Channels</b>                       | 2 channels                         | 2 channels             | 2 channels                      | 2 channels             |
| <b>Frequency response</b>             | 2 Hz - 50 kHz (-3 dB)              | 2 Hz - 20 kHz          | 2 Hz - 50 kHz (-3 dB)           | 2 Hz-20 kHz            |
| <b>Dynamic range</b>                  | 114 dB                             | 100 dB                 | 113 dB                          | 100 dB                 |
| <b>Signal-to-noise ratio</b>          | 120 dB                             | 119 dB                 | 117 dB                          | 117 dB                 |
| <b>Total harmonic distortion</b>      | 0.0006 %<br>(1 kHz, audible band)  | 0.0017 %<br>(1 kHz)    | 0.001%<br>(1 kHz, audible bend) | 0.0018% (1 kHz)        |
| <b>Wow &amp; flutter</b>              | Below measurable limit             | Below measurable limit | Below measurable limit          | Below measurable limit |
| <b>Output voltage</b>                 | 2.0 V (10 kohms)                   | 2.0 V (10 kohms)       | 2.0 V (10 kohms)                | 2.0 V (10 kohms)       |
|                                       | : Unbalanced                       | -                      | -                               | -                      |
|                                       | : Balanced                         | -                      | -                               | -                      |
| <b>Digital output</b>                 | -                                  | 0.5 Vp - p/75 ohms     | -                               | 0.5 Vp - p/75 ohms     |
|                                       | : Coaxial                          | -                      | -                               | -                      |
|                                       | : Optical                          | -15 to -21 dbm         | -                               | -15 to -21 dbm         |
|                                       | : Emission wavelength              | 660 nm                 | -                               | 660 nm                 |
| <b>Power supply</b>                   | AC 230 V, 50 Hz                    |                        | AC 230 V, 50 Hz                 |                        |
| <b>Power consumption</b>              | 33 W<br>(Stand-by less than 0.3 W) |                        | 30 W<br>(Standby 0.2 W)         |                        |
| <b>Dimensions (W x H x D)</b>         | 434 x 137 x 336 mm                 |                        | 434 x 135 x 331 mm              |                        |
| <b>Weight</b>                         | 13.5 kg                            |                        | 8.0 kg                          |                        |
| <b>Available colours</b>              | Premium Silver                     |                        | Premium Silver, Black           |                        |
| Features                              |                                    |                        |                                 |                        |
| <b>Advanced AL 32 Processing</b>      | •                                  |                        | •                               |                        |
| <b>SVH loader</b>                     | •                                  |                        | •                               |                        |
| <b>Dimmer</b>                         | •                                  |                        | •                               |                        |
| <b>Analogue output</b>                | 1                                  |                        | 1                               |                        |
| <b>Digital output</b>                 | 2 (Coaxial/Optical)                |                        | 2 (Coaxial/Optical)             |                        |
| <b>Digital input</b>                  | 2 (Coaxial/Optical)                |                        | -                               |                        |
| <b>USB input: front / rear</b>        | USB-A / USB-B                      |                        | • / -                           |                        |
| <b>Asynchronous Mode (192/24)</b>     | •                                  |                        | -                               |                        |
| <b>Super Audio CD</b>                 | •                                  |                        | •                               |                        |
| <b>CD-R/RW playback <sup>1)</sup></b> | •                                  |                        | •                               |                        |
| <b>MP3/WMA decoder</b>                | •                                  |                        | •                               |                        |
| <b>Random</b>                         | •                                  |                        | •                               |                        |
| <b>Repeat all</b>                     | •                                  |                        | •                               |                        |
| <b>Repeat one</b>                     | •                                  |                        | •                               |                        |

## CD-PLAYERS/CD-CHANGER

| Technical information            |                       |                       |
|----------------------------------|-----------------------|-----------------------|
|                                  | DCD-720AE             | DCD-520AE             |
| <b>Channels</b>                  | 2 channel stereo      | 2 channel stereo      |
| <b>Dynamic range</b>             | 100 dB                | 100 dB                |
| <b>Signal-to-noise ratio</b>     | 112 dB                | 110 dB                |
| <b>Total harmonic distortion</b> | 0.0025 % (1 kHz)      | 0.003% (1 kHz)        |
| <b>Power supply</b>              | AC 230 V, 50/60 Hz    | AC 230 V, 50/60 Hz    |
| <b>Power consumption</b>         | 22 W                  | 13 W                  |
| <b>Dimensions (W x H x D)</b>    | 434 x 107 x 273 mm    | 434 x 107 x 273 mm    |
| <b>Weight</b>                    | 4.1 kg                | 4.0 kg                |
| <b>Available colours</b>         | Premium Silver, Black | Premium Silver, Black |
| Features                         |                       |                       |
| <b>AL 32 Processing</b>          | •                     | -                     |
| <b>SVH loader</b>                | -                     | -                     |
| <b>Dimmer</b>                    | •                     | •                     |
| <b>Analogue output</b>           | 1                     | 1                     |
| <b>Digital output</b>            | 1 (Optical)           | 1 (Optical)           |
| <b>Digital input</b>             | -                     | -                     |
| <b>Number of discs</b>           | 1                     | 1                     |



DCD-1510AE



DCD-720AE



## STEREO RECEIVERS

| Technical information          |   |   |
|--------------------------------|---|---|
|                                | DRA-700AE   | DRA-500AE   |
| <b>Power amplifier section</b> |   |   |
| Rated output                   | 80 W + 80 W<br>(8 ohms, 20 Hz - 20 kHz, T.H.D. 0.05 %)<br>105 W + 105 W<br>(1 kHz, 4 ohms, T.H.D. 0.7%) | 75 W + 75 W<br>(8 ohms, 20 Hz - 20 kHz, T.H.D. 0.05 %)<br>95 W + 95 W<br>(1 kHz, 4 ohms, T.H.D. 0.7%) |
| <b>Preamplifier section</b>    |   |   |
| Input sensitivity/impedance    | PHONO (MM) : 2.5 mV/47 kohms<br>CD, VIDEO, TAPE 1, TAPE 2 :<br>150 mV/25 kohms                          | CD, VIDEO, TAPE : 150 mV/25 kohms   |
| Tone control                   | Bass 100 Hz : ± 10 dB<br>Treble 10 kHz : ± 10 dB  | Bass 100 Hz : ± 10 dB<br>Treble 10 kHz : ± 10 dB  |
| <b>FM section</b>              |   |   |
| Tuning frequency range         | 87.5 - 108.0 MHz  | 87.5 - 108.0 MHz  |
| Usable sensitivity             | 0.9 µV (10.3 dBf)   | 1.0 µV (10.3 dBf)   |
| <b>AM section</b>              |   |   |
| Tuning frequency range         | 522 - 1611 kHz  | 522 - 1611 kHz  |
| Usable sensitivity             | 18 µV   | 18 µV   |
| <b>Power supply</b>            |   |   |
| Power consumption              | AC 230 V, 50 Hz<br>245 W  | AC 230 V, 50 Hz<br>235 W  |
| <b>Dimensions (W x H x D)</b>  |   |   |
| Weight                         | 434 x 147 x 417 mm<br>9.7 kg  | 434 x 147 x 414 mm<br>9.0 kg  |
| Available colours              | Premium Silver, Black   | Premium Silver, Black   |
| <b>Features</b>                |   |   |
| SLDC                           | •   | •   |
| Speaker                        | A/B   | A/B   |
| Analogue inputs                | 5 + Phono (MM)  | 5   |
| Analogue outputs               | 2 + pre out for Zone2 & 3   | 2   |
| Loudness                       | •   | •   |
| Binding post speaker terminal  | •   | •   |
| RDS with RadioText             | •   | •   |
| Dot matrix display             | • (2-line)  | • (1-line)  |
| Video in/out                   | 3 / 2 +2 for Zone 2 & 3   | -   |
| Station memory (FM&AM/DAB)     | 56 / -  | 56 / -  |
| Auto preset memory             | •   | •   |
| Character input                | •   | •   |

## NETWORK PLAYER

| Technical information     |   |
|---------------------------|---|
|                           | DNP-720AE<br>Network Audio Player                   |
| Channels                  | 2 channels  |
| 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 | 0.003 % (1 kHz, audible band)                       |
| Output voltage            | 2 Vrms (100 kohms)                                  |
| Power supply              | AC 230 V, 50 Hz/60 Hz                               |
| Power consumption         | 17 W  |
| Dimensions (W x H x D)    | 434 x 74 x 282 mm                                   |
| Weight                    | 2.9 kg  |
| Available colours         | Premium Silver, Black                               |
| <b>Features</b>           |   |
| Network audio streaming   | Wi-Fi / Wired LAN                                   |
| Music server              | DLNA / WMP11 / Twonky Vision                        |
| Windows 7 compatibility   | •   |
| Supported Formats         | MP3 / WAV / AAC / WMA / FLAC / FLAC 96/24           |
| AirPlay                   | •   |
| Internet Radio            | vTuner (MP3 / WMA)                                  |
| last.fm*                  | •   |
| Remote App                | Denon Remote App                                    |
| Party Mode Plus           | •   |
| iPod/USB Direct Play      | • / •   |
| D/A Converter             | 192 kHz/24-bit                                      |
| Tuner                     | FM/AM   |
| RDS (radio data system)   | •   |
| Radio Text                | •   |
| Digital output            | • (optical)   |
| Analogue output           | 1 (gold plated)                                     |
| <b>Others</b>             |   |
| Display                   | 3 line OLED   |
| Wake on LAN               | •   |
| Online Firmware Update    | •   |
| Remote control/IP control | • / •   |

\* Service not in all countries available - Subscription required

## STEREO TUNER

| Technical information         |  |
|-------------------------------|--|
|                               | TU-1510AE  |
| <b>FM section</b>             |  |
| Tuning frequency              | 87.50 - 108.00 MHz   |
| Usable sensitivity            | 1.0 µV (11.2 dBf), 1.2 µV (IHF)                                  |
| Signal-to-noise ratio         | Mono 77 dB (IHF), 73 dB (DIN)<br>Stereo 72 dB (IHF), 68 dB (DIN) |
| Total harmonic distortion     | Mono 0.15%<br>Stereo 0.3%  |
| Stereo separation (1 kHz)     | 43 dB  |
| <b>AM section</b>             |  |
| Tuning frequency range        | 522 - 1611 kHz   |
| Usable sensitivity            | 18 µV  |
| Signal-to-noise ratio         | 53 dB  |
| <b>Power supply</b>           |  |
| Power consumption             | AC 230 V, 50 Hz<br>10 W  |
| <b>Dimensions (W x H x D)</b> |  |
| Weight                        | 434 x 73 x 286 mm<br>3.6 kg                                      |
| Available colours             | Premium Silver, Black  |
| <b>Features</b>               |  |
| RDS                           | •  |
| Radio Text                    | •  |
| Station memory (FM & AM)      | 100  |
| Manual character input        | •  |
| Auto preset memory            | •  |



DNP-720AE

## TURNTABLES

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

## CARTRIDGES

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

## CEOL & CEOL PICCOLO

| Technical information         |  |  |
|-------------------------------|--|--|
|                               | CEOL   | CEOL Piccolo   |
| <b>Rated output power</b>     | 65 W + 65 W (4 ohms, 1 kHz, T.H.D. 0.7%)                             | 65 W + 65 W (4 ohms, 1 kHz, T.H.D. 0.7%)                             |
| <b>FM section</b>             |  |  |
| Frequency range               | 87.50 MHz – 108.00 MHz   | -  |
| <b>Power supply</b>           | 230 V, 50 Hz   | 230 V, 50 Hz   |
| <b>Dimensions (W x H x D)</b> | 280 x 112 x 299 mm   | 180 x 90 x 234   |
| <b>Weight</b>                 | 4.0 kg   | 2.2 kg   |
| <b>Available colours</b>      | Black, White   | Black, White   |
|                               | <b>SC-N8</b>   | <b>SC-N5</b>   |
| <b>Type</b>                   | 2way 2speakers, Reflex box   | 2way 2speakers, Reflex box   |
| <b>Drivers</b>                | 12 cm cone bass-mid range x 1<br>2.5 cm balanced dome high range x 1 | 10 cm cone bass-mid range x 1<br>2.5 cm balanced dome high range x 1 |
| <b>Impedance</b>              | 6 ohms   | 6 ohms   |
| <b>Dimensions (W x H x D)</b> | 145 x 233 x 224 mm   | 130 x 185 x 224 mm   |
| <b>Weight</b>                 | 2.3 kg/unit  | 2.0 kg/unit  |

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CEOL



CEOL PICCOLO

## MINI COMPONENT SYSTEMS

### DRA-F109/DRA-F109DAB\*

| Technical information             |   |   |
|-----------------------------------|---|---|
| Receiver                          | DRA-F109DAB   | DRA-F109  |
| <b>Power amplifier section</b>    |   |   |
| Rated output                      | 65 W + 65 W<br>(4 ohms, 1 kHz, T.H.D. 0.7%)                               | 65 W + 65 W<br>(4 ohms, 1 kHz, T.H.D. 0.7%)                               |
| <b>Preamplifier section</b>       |   |   |
| Input sensitivity/impedance       | -   | -   |
|                                   | Analog In: 200 mV/47 kohms  | Analog In: 200 mV/47 kohms  |
| Digital input (optical / coaxial) | 1 / 2   | 1 / 2   |
| Tone control                      | Bass 100 Hz : ± 10 dB<br>Treble 10 kHz : ± 10 dB<br>S.D.B.: 100 Hz + 8 dB | Bass 100 Hz : ± 10 dB<br>Treble 10 kHz : ± 10 dB<br>S.D.B.: 100 Hz + 8 dB |
| <b>FM section</b>                 |   |   |
| Tuning frequency range            | 87.5 - 108 MHz  | 87.5 - 108 MHz  |
| Usable sensitivity                | 1.5 µV (10.3 dBf)   | 1.5 µV (10.3 dBf)   |
| <b>DAB tuner</b>                  |   |   |
| Frequency Range                   | BAND III 170MHz - 240MHz  | -   |
| <b>General</b>                    |   |   |
| Power supply                      | AC 230 V, 50/60 Hz  | AC 230 V, 50/60 Hz  |
| Power consumption                 | 48 W (standby 0.3 W)  | 48 W (standby 0.3 W)  |
| Dimensions (W x H x D)            | 250 x 82 x 250 mm (w/o terminals)<br>250 x 82 x 283 mm                    | 250 x 82 x 250 mm (w/o terminals)<br>250 x 82 x 283 mm                    |
| Weight                            | 2.6 kg  | 2.6 kg  |
| Available colours                 | Premium Silver, Black   | Premium Silver, Black   |

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

| Technical information     |   |
|---------------------------|---|
| Network Player            | DNP-F109  |
| Channels                  | 2 channels  |
| 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)                      |
| Output voltage            | 2 Vrms  |
| Power supply              | AC 230 V, 50/60 Hz                                  |
| Power consumption         | 18W   |
| Dimensions (W x H x D)    | 250 x 82 x 260 mm                                   |
| Weight                    | 2.0 kg  |
| Available colours         | Premium Silver, Black                               |
| <b>Features</b>           |   |
| Network audio streaming   | Wi-Fi / Wired LAN                                   |
| Music server              | DLNA / WMP11  |
| Supported Formats         | MP3 / WAV / AAC / WMA / FLAC / FLAC 192/24          |
| AirPlay                   | •   |
| Internet Radio            | vTuner (MP3 / WMA)                                  |
| Spotify* / last.fm*       | - / •   |
| iPod/USB Direct Play      | • / •   |
| D/A Converter             | 192 kHz/24-bit                                      |
| Digital output            | • (Coaxial)   |
| Analogue output           | •   |
| Others                    |   |
| <b>Display</b>            | 3 line OLED   |
| Remote App                | Denon Remote App                                    |
| Online Firmware Update    | •   |
| Remote control/IP control | • / -   |

\* Service not in all countries available - Subscription required

| Technical information         |  |
|-------------------------------|--|
| Speaker System                | SC-F109  |
| <b>Type</b>                   | 2-way, 2-speakers<br>Reflex box                          |
| <b>Drivers</b>                | 12 cm cone bass-mid x1<br>2.5 cm soft dome high range x1 |
| <b>Frequency range</b>        | 45 Hz - 40 kHz   |
| <b>Max. input</b>             | 60 W (IEC), 120 W (PEAK)                                 |
| <b>Input impedance</b>        | 6 ohms   |
| <b>Dimensions (W x H x D)</b> | 165 x 245 x 234 mm                                       |
| <b>Weight</b>                 | 3.8 kg/unit  |
| <b>Available colours</b>      | Black, Wood  |



DRA-109



DNP-109

| Technical information  |  |
|------------------------|--|
| CD-Player              | DCD-F109   |
| <b>General</b>         |  |
| Channels               | 2 channels   |
| Power supply           | AC 230 V, 50/60 Hz                                     |
| Power consumption      | 9 W  |
| Dimensions (W x H x D) | 250 x 82 x 250 mm (w/o terminals)<br>250 x 82 x 260 mm |
| Weight                 | 2.9 kg   |
| Available colours      | Premium Silver, Black                                  |



RCD-M39

### D-M39/D-M39DAB\*

| Technical information          |   |   |
|--------------------------------|---|---|
| CD-Receivers                   | RCD-M39DAB                                | RCD-M39                                   |
| <b>Power amplifier section</b> |   |   |
| Rated Output Power             | 30 W + 30 W<br>(6 ohms, 1kHz, T.H.D. 10%) | 30 W + 30 W<br>(6 ohms, 1kHz, T.H.D. 10%) |
| <b>FM section</b>              |   |   |
| Frequency Range                | 87.5 - 108.0 MHz                          | 87.5 - 108.0 MHz                          |
| <b>DAB tuner</b>               |   |   |
| Frequency Range                | BAND III 170 MHz - 240MHz                 | -   |
| <b>CD-Player section</b>       |   |   |
| Type                           | Single CD-Player                          | Single CD-Player                          |
| Programming                    | 25 tracks                                 | 25 tracks                                 |
| Digital input (optical)        | •   | •   |
| <b>Power supply</b>            | 230 V, 50 Hz                              | 230 V, 50 Hz                              |
| <b>Power consumption</b>       | 80 W (Standby 0.3 W)                      | 80 W (Standby 0.3 W)                      |
| <b>Dimensions (W x H x D)</b>  | 210 x 115 x 308.5 mm                      | 210 x 115 x 308.5 mm                      |
| <b>Weight</b>                  | 4.0 kg                                    | 4.0 kg                                    |
| <b>Available colours</b>       | Premium Silver, Black                     | Premium Silver, Black                     |

\* 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  |
| <b>Type</b>                   | 2-way, 2-speakers<br>Reflex box                     |
| <b>Drivers</b>                | 12 cm cone bass-mid x1<br>2.5 cm dome high range x1 |
| <b>Frequency range</b>        | 45 Hz - 40 kHz                                      |
| <b>Crossover frequency</b>    | 3 kHz   |
| <b>Max. input</b>             | 60 W (IEC), 120 W (PEAK)                            |
| <b>Input impedance</b>        | 6 ohms  |
| <b>Dimensions (W x H x D)</b> | 145 x 238 x 234 mm                                  |
| <b>Weight</b>                 | 3.5 kg/unit   |
| <b>Available colours</b>      | Black, Wood   |



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