# DENON

WORKS WITH
amazon alexa

works with the
Google Assistant

Works with
Apple AirPlay

# DENON AVR-X1600H

**7.2CH AV RECEIVER WITH VOICE CONTROL**

# CUTTING-EDGE HOME THEATRE

HEOS

Watch your favourite movies and shows with stunning clarity thanks to full 4K video, Dolby Vision™, HDR, HLG and HDCP 2.3 support on all six HDMI ports of the AVR-X1600H. The 7.2 CH AVR supports 3D audio formats Dolby Atmos®, Dolby Height Virtualization, DTS:X™ and DTS Virtual:X®. Stream Spotify®, Deezer, Tidal and more with HEOS Network solution built-in. Controlling your AVR has never been easier with voice compatibility and the AVR Remote app.

| HIGHLIGHTS | YOUR BENEFITS |
|---|---|
| High-performance 7.2 channel AV receiver with 145 W power per channel | 7 powerful amplifiers tuned to provide the dynamic Denon sound experience |
| Supports Dolby Atmos, Dolby Height Virtualization, DTS:X and DTS Virtual:X | Enjoy an immersive, three-dimensional audio experience |
| Amazon Alexa, Google Assistant and Siri (Works with Apple AirPlay) Voice control compatibility | Hands-free control of your AVR-X1600H and music services |
| 6 HDMI inputs; 4K/60 Hz with full-rate, 1 HDMI output supporting eARC | Connect up to 6 media devices and stream 3D audio from your TV via eARC |
| 4:4:4 colour resolution, HDR10 and BT.2020, plus Dolby Vision compatibility and HLG | Provides the greatest picture quality |
| Award-winning Denon guided setup assistant and graphical user interface | Easy and intuitive out-of-box setup experience |
| Audyssey MultEQ XT, Dynamic Volume and Dynamic EQ | Delivering perfect equalization for your individual room |
| Stream the most popular music services – Spotify, TuneIn, Deezer and more | Access to a wide array of unlimited online music sources |
| Built-in HEOS wireless multi-room audio technology | Listen from any room of your home |
| Audio playback of lossless files WAV, FLAC, ALAC and DSD (2.8/5.6MHz) files | Listen to the highest quality music files available |

DOLBY ATMOS · dts X · WiFi CERTIFIED · AUDYSSEY MULTEQ XT32 · Network · HDMI · 4K UHD HDR / HDCP 2.3 · COMPATIBLE DOLBY VISION · Multi Zone Home Entertainment Component · Hi-Res AUDIO · AirPlay · Bluetooth

AVR DENON · eco mode · music · DEEZER · napster · Spotify · TIDAL · SOUNDCLOUD · tunein

**www.denon.eu**
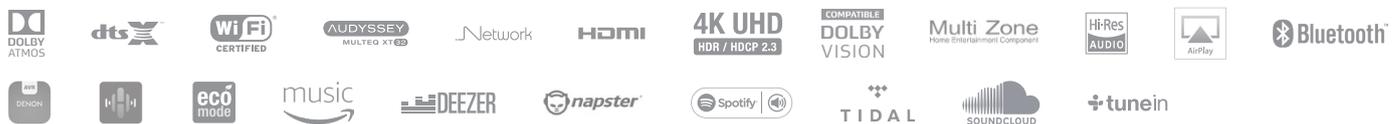
### Powerful 7-Channel Amplifier with the Latest Home Cinema Specs

Featuring discrete high-current amplifiers on all channels, the AVR-X1600H delivers high-power performance at 80 Watts per channel (8 Ohms, 20Hz-20kHz, 0.08% THD). Low impedance drivers provide operational stability for a wide range of speakers and create balanced, tonal sound. The AVR-X1600H features three-dimensional sound formats Dolby Atmos, DTS:X and DTS Virtual:X, plus an HDMI section with HDCP 2.3 support and advanced video processing with 4K up scaling for HDMI sources.

### Dolby Atmos, Dolby Height Virtualization, DTS:X

Immerse yourself in multi-dimensional audio with Dolby Atmos, DTS:X and DTS Virtual:X. Set up Dolby Atmos with a 5.1.2 surround sound speaker system using Dolby Atmos elevation speakers, or dedicated overhead speakers, for the ultimate home theatre experience. DTS:X™ immersive audio places sound where it would occur naturally in space, creating a lifelike, multi-dimensional audio experience in the home. The improved immersion and heightened realism draw you into the world of your favourite movies. The included DTS Neural:X™ gives your movies, games and music a realism unmatched by traditional 5.1 surround sound. Dolby Height Virtualization and DTS Virtual:X provide immersive audio without height channels, creating virtual height effects in a 5.1, 7.1 or 2.1 speaker arrangement.

### Works with Amazon Voice Control

Control the AVR hands-free with Amazon Alexa and your voice. Adjust the volume, skip to the next track, switch inputs for your different media players and more – "Just Ask." Download the HEOS Home Entertainment Skill to enable Amazon Alexa voice commands for your AVR-X1600H, HEOS devices and other selected Denon products. An Echo Dot or similar Amazon device is required. (Availability varies per region/country).

### Advanced HDMI Video Section

The latest HDMI specs for the best home theatre experience. All 6 HDMI inputs – including one on the front panel – feature HDCP 2.3 support for copy-protected content. Watch movies and shows with 4K Ultra HD 60Hz video, 4:4:4 Pure Colour sub-sampling, Dolby Vision, High Dynamic Range (HDR10), Hybrid Log-Gamma (HLG) and 21:9 video, 3D, and BT.2020 pass-through support for exceptional colour, clarity and contrast. The eARC – enhanced Audio Return Channel – support allows 3D audio transmission directly from the TV to the AVR through the connected HDMI cable.

### Easy Setup Experience

The included AVR-X1600H Quick Start Guide provides simple, clear instructions for how to get started. Once you connect your TV to the AVR-X1600H via HDMI, the Denon Setup Assistant appears on your TV screen to walk you through setup, step by step. A row of colour-coded speaker connections is laid out horizontally, making organising and connecting speaker wires simple.

### Built-in Bluetooth, Wi-Fi and AirPlay2 Capability

The heart of your wireless network. With Bluetooth and Wi-Fi wireless streaming connectivity, the Denon AVR-X1600H is equipped with an advanced dual antenna transceiver system for robust streaming even in congested urban environments. Enjoy listening to your favourite audio content wirelessly from your smart devices.

### HEOS Multi-room Streaming

Enjoy your favourite music in any room of your home wirelessly with built-in HEOS technology. Play the same song in every room, or select a different song for each connected room — the choice is yours. Also works with Alexa, Google Assistant and Siri providing cutting-edge voice control and incredible sound for all of your home entertainment.

### Custom Install Ready

The Denon AVR-X1600H features external control and IP control capabilities for easy customisation and compatibility with third-party integration solutions. It offers IP control capability for major third-party control devices.

### Remote Monitoring Capability

In today's custom install environment, it's critical for integrators to provide quick, reliable assistance and service to their clients, even after the install is complete. To support this effort, the AVR-X1600H AV receiver features "ihiji Invision" remote system management technology and "Domotz Pro" remote monitoring and management technology. These programs allow custom integrators to monitor the status of connected products and troubleshoot remotely from the office or on the go, radically reducing the time it takes to address the issue.

### High-resolution Audio Decoding

Discover the incredible fidelity of high-resolution audio tracks and enjoy music as the artist intended. The AVR-X1600H has the ability to decode multiple lossless file types, including ALAC, FLAC, WAV (up to 24-bit/196-kHz) as well as DSD 2.8MHz and 5.6MHz tracks (the audiophile format of SACD). Listen to high-resolution audio through network connected devices like your PC or NAS, or from a USB connected device.

### DSP Power Processing

Incredible power for your music and movie needs. The AVR-X1600H includes an advanced DSP (Digital Sound Processor) chip for tremendous power processing. With four 300MHz DSP cores that are capable of processing over one billion computations per second, the AVR-X1600H supports the latest video, sound and processing needs.

### Multi-source, Multi-room

With the Denon AVR-X1600H, it's possible to enjoy 5.1 channel surround sound in one room and a separate source or music stream in another. Watch a movie in one room while another family member listens to a CD in a different zone without interruption. Or just enjoy the movie in surround in the main room and the same audio as stereo downmix in the second room.

### Phono Input for Turntable / Vinyl Support

With the included phono input, the AVR-X1600H lets you connect your turntable and play vinyl records. Enjoy your vintage collection with exceptional quality and sound.

### TV Connectivity

Control the Denon AVR-X1600H with your TV remote via the HDMI CEC functionality associated with your TV. Simply set "HDMI Control" to ON in your receiver, then set "Smart Menu" to ON and begin controlling the AVR-X1600H with your TV remote. The Smart Menu home screen provides you quick access to source and surround mode selections, the AVR's setup menu and four Smart Selects. With ARC the TV Audio will be provided to the AVR-X1600H by the connected HDMI cable too.

### Denon AVR Remote for Seamless Control

Better control in your back pocket. The free Denon AVR Remote app for iOS and Android makes using the AVR-X1600H even easier – adjust volume, turn it on or off, mute the music, select a source or switch to HEOS. Download the free Denon Remote app to your smartphone today.

### Audyssey Room Correction

The AVR-X1600H features the Audyssey MultEQ XT room acoustic measurement system. With the supplied microphone, it precisely analyses the output of each speaker to optimise every channel. Plus, the additional Audyssey MultEQ Editor app (available for purchase) allows advanced users to go "under the hood" for further adjustment and customisation of your audio environment.

### Quick Selects for User-friendly Audio Tuning

The Denon AVR-X1600H front panel features four Quick Select buttons that store your preferred audio settings for each source. Switch between television, Blu-ray, pre-amplifiers and more, and the AVR-X1600H adjusts the EQ settings to your preferences for that media source. Use the buttons on the front panel or opt for the same Quick Selects on the AVR remote for faster control.

### 100+ Years of Firsts in Audio Technology

Founded in 1910, Denon has a deep heritage of "firsts" in audio technology – from Japan's first audio electronics manufacturer, to producing the world's first commercial CDs. This focused investment in audio R&D ensures you get the latest technology and highest quality with every listening experience.



## Technical information

| | |
|---|---|
| Number of power amps | 7 |
| Power output | 145 watts per channel (6 ohms, 1 kHz, THD 1%, 1ch driven) |
| | 120 W (6 ohms, 1 kHz, 0.7% 2ch Drive) |
| | 80 watts per channel (8 ohm, 20 Hz - 20 kHz, 0.08% 2ch Drive) |
| Speaker impedance | 4 - 16 Ω / ohms |
| **Preamplifier section** | |
| Input sensitivity/ impedance | 200 mV / 47kΩ/kohms |
| Frequency response | 10 Hz – 100 kHz — +1, –3 dB (Direct mode) |
| S/N Ratio | 98 dB (IHF–A weighted, Direct mode) |

| FM section | |
|---|---|
| Tuning frequency range | 87.5 MHz – 108 MHz |
| **AM section** | |
| Tuning frequency range | 520 kHz – 1611 kHz |
| **General** | |
| Power supply | AC 230 V 50 Hz |
| Power consumption | 430 W (Standby 0.1 W, CEC standby 0.5W) |
| Power consumption No-Sound | 29 W(ECO Mode On) 39 W(ECO Mode Off) |
| Dimensions (W x H x D) | 434 x 151 x 339 mm |
| Dimensions (packed) | 523 x 232 x 435 mm |
| Weight | 8.5 kg |
| Weight (packed) | 10.6 kg |
| EAN | AVRX1600HBKE2 | 4951035069707 |
| | AVRX1600HBKE2GB | 4951037070046 |

## Ports

| | | | |
|---|---|---|---|
| IN | HDMI (Front 1) | | x 6 |
| | Composite (video) | | x 2 |
| | Phono | | x 1 |
| | Analog Audio | | x 2 |
| | Digital Optical | | x 2 |
| | USB (front) | | x 1 |
| OUT | HDMI Monitor (eARC) | | x 1 |
| | Composite (video) | | x 1 |
| | Audio Pre-out (SW) | | 2 ch |
| | Zone 2 (speaker assignable) | | x 1 |
| | Phones | | x 1 |
| OTHER | Ethernet | | x 1 |
| | Microphone Port | | x 1 |
| | FM/AM Tuner Antenna | | x 1 |

|V03|