



# DENON AVC-A1H

## AVC-A1H 15.4 Ch. 8K AV Amplifier

With 15 channels of amplification, our most powerful transformer, carefully selected parts, and hefty, high-rigidity construction, the AVC-A1H supports up to 9.4.6 configuration and delivers a professional theatre experience in your home cinema. Designed and manufactured at Denon facilities in Japan.

| HIGHLIGHTS                           | YOUR BENEFITS                                                                                                                                                                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unleash 15 channels of power         | The world's first 15-channel AV receiver delivering up to 210W per channel.                                                                                                                                                                |
| Unparalleled quality and performance | The largest power transformer we have ever used and new, larger capacitors make AVC-A1H respond quickly and dynamically to your music to reproduce audio as the artist intended.                                                           |
| The latest technologies              | Equipped with the latest dualcore, 1GHz digital signal processor (DSP) and the latest HDMI standards, the amplifier supports all 3D audio formats and 8K entertainment.                                                                    |
| Hi-fi grade components               | Audiophile grade two-channel DAC for all 19 channels, hefty gold-plated speaker terminals, cast iron feet, and rigid construction protects against vibration and interference, greatly reducing noise impacts.                             |
| Connection choices                   | Both professionals and enthusiasts will appreciate the selection of connectivity options, like 15.4 channel pre-outs with PreAmplifier mode, both RCA and XLR subwoofer connections, and integration with home automation control systems. |
| Setup and room correction            | Award-winning guided Denon Setup Assistant includes the highest level of Audyssey software (installed) and Dirac Live upgradability (with fee).                                                                                            |
| Built to high standards              | Designed and manufactured in Denon's state of the art manufacturing facility in Japan, where traditional practices fuse seamlessly with technologies designed for the future.                                                              |
| HEOS® Built-In technology            | Stream music wirelessly to compatible HEOS-enabled components from a variety of streaming services. Add Denon Home speakers to more rooms and control it all with the HEOS app.                                                            |
| Over a century of innovation         | Founded in 1910, Denon enhances the moments that matter through the relentless pursuit of quality, innovation, and audio performance.                                                                                                      |

SINCE 1910 | DEFINING AUDIO EXCELLENCE



**Dolby Atmos®**  
Feel every dimension in Dolby Atmos. Upgrade your home theatre with a 9.4.6 speaker setup to unleash a fully immersive 3D audio experience from Dolby Atmos content. Dolby Surround upmixer engages all speakers to create 3D audio sensations from legacy content. Dolby Atmos Height Virtualization Technology creates the sensation of overhead sound even without ceiling speakers installed. You can also enjoy Dolby Atmos music tracks available from Apple Music, Amazon HD, or TIDAL fed by a compatible streaming device via HDMI.

**DTS:X**  
DTS:X immersive audio content places sound where it would naturally occur in space, creating lifelike, multi-dimensional audio. DTS Neural:X upmixer offers improved immersion and heightened realism for legacy content. DTS Virtual:X provides immersive audio without height channels, creating virtual height effects in a 9.1, 7.1, 5.1 or 2.1 speaker setup.

**IMAX Enhanced**  
Get the most premium at-home entertainment experience with IMAX Enhanced – the latest technology from DTS that sets a new standard for home theater imaging, sound, scale, and clarity. Watch clearer pictures and brighter images. Feel immersive, heart-pounding audio and experience premium content digitally remastered by IMAX. You can enjoy IMAX Enhanced experience starting from a 5.1.4 speaker setup.

**Auro 3D®**  
Auro-3D elevates the home theatre experience to amazing new levels by delivering the excitement of three-dimensional sound for music, games, broadcast, and films, putting you in a cocoon of life-like sound. Turn your existing audio-visual collection into an Auro-3D experience, thanks to the Auro-Matic upmixing engine. Supports up to 7.1.8 Auro-3D speaker configuration.

**360 Reality Audio**  
360 Reality Audio is a new immersive music experience that uses Sony's 360 Spatial Sound technology. Individual sounds such as vocals, chorus, piano, guitar, bass and even the sounds of the live audience can be placed in a 360 spherical sound field. With 360 Reality Audio, music has never been so immersive and so real. Select Denon AV receivers are capable of 360 Reality Audio playback by connecting a 360RA streaming device via HDMI.

**HDMI Connectivity with ARC/eARC**  
Supports the latest technology on all HDMI inputs and output. ARC (Audio Return Channel) or eARC (Enhanced Audio Return Channel) makes playing TV audio through your AV receiver simple, with a single HDMI connection. eARC provides HD and 3D audio transmissions such as Dolby TrueHD, DTS HD Master Audio, and Dolby Atmos while ARC is limited to conventional 5.1ch audio formats or PCM.

**8K/HDCP 2.3**  
Enjoy pristine 8K picture quality on your 8K TV or projector. Supports both 8K pass-through and 8K upscaling of 1080p and 4K content. Supports HDCP 2.3, the latest copy protection standard, for peace of mind when streaming copy-protected content.

**Brilliant colours from HDR 10+**  
Supports HDR (High Dynamic Range), HLG (Hybrid Log Gamma), as well as Dynamic HDR and HDR10+ pass-through. HLG offers HDR technology over broadcast content. Both Dynamic HDR and HDR10+ use dynamic metadata to optimize shadows and highlights as screens change.

**Dolby Vision**  
Compatible with Dolby Vision so you can enjoy Dolby Vision content from a compatible source device and TV. Dolby Vision is a stunning HDR imaging technology that brings extraordinary colour, contrast, and brightness to the screen.

**Next-generation gaming**  
Supports Variable Refresh Rate (VRR), Quick Frame Transport (QFT), and Auto Low Latency Mode (ALLM) for smooth, lag-free gaming experience when connected with compatible gaming devices.

**HEOS® Built-in**  
With HEOS Built-in, your AV receiver can stream music wirelessly from a variety of free and premium streaming services. Consumers can also enjoy their favourite music in any room of the home wirelessly. Play the same song in every room or select a different song for each connected room via a variety of streaming sources. Add Denon Home speakers to more rooms and control it all with the HEOS app.

**High-resolution audio**  
Discover the incredible fidelity of high-resolution audio tracks and enjoy music as the artist intended. A front USB port supports up to 24bit/192kHz and DSD5.6 hi-res audio playback from a USB drive. Supported audio formats are MP3, WMA, WAV, MPEG-4/AAC, FLAC, ALAC, and DSD. The same formats can be streamed via the network too.

**Denon Setup Assistant**  
Award-winning guided Denon Setup Assistant provides simple, clear instructions to get started. Just connect your AV receiver to your TV and follow the instructions on the TV screen to connect your speakers, perform speaker measurements, and connect source devices. For additional convenience, the AV receiver renames HDMI inputs automatically when connected, or you can rename manually at your convenience.

**Audyssey Premium Suites of Room Correction Technology**  
Denon AV receivers use the Audyssey suite of EQ software for simple, accurate setup and calibration. With the supplied Audyssey measuring microphone, Audyssey measures all the speakers

in your home theater, and tunes the AV receiver to provide the smoothest, most optimal overall listening experience for your room. This AV receiver supports Audyssey MultEQ XT32 room correction technology. The other supported Audyssey features are Dynamic EQ, and Dynamic Volume.

**AL32 Processing Technology**  
AL32 Processing, a Denon proprietary analogue waveform reproduction technology, supports up to 192 kHz sampling frequency and 32bit expansion on your receiver. The technology thoroughly suppresses noise associated with D/A conversion to reproduce low-level signals with optimum clarity and bring out all the delicate nuances of the music. AL32 Processing Multi-Channel means the technology is applied on all channels and all input sources.

**Dirac Live Upgradability**  
The interaction between your sound system and the physical layout of your room has a huge impact on sound quality. Dirac Live® Room Correction applies state-of-the-art, patented algorithms to analyze and digitally reduce room impact and enhance speaker performance.

Select Denon AV receivers support Dirac Live Upgradability. You can purchase a Dirac Live license key to unlock the functionality. Visit [dirac.com/denon/](http://dirac.com/denon/) for more information. Upgradability will be supported via a future firmware update. Stay tuned!

**Subwoofer Tuning**  
Four fully assignable XLR outputs can be used to connect up to four subwoofers, or can be assigned to FR, FL, and Center channels to connect external amplification. LFE distribution is a unique feature allowing you to add LFE signal to your large, full-size speakers. This option is useful when Subwoofer Mode is set to "Directional Mode" for more synchronized bass performance between full-band speakers and subwoofers.



| Technical Information               |                                                                    |    |                                                 |                 |
|-------------------------------------|--------------------------------------------------------------------|----|-------------------------------------------------|-----------------|
| Number of Power Amps                |                                                                    | 15 | General                                         |                 |
| Power Output                        | 150 watts per channel<br>(8 ohm, 20Hz - 20kHz,<br>0.05% 2ch Drive) |    | System Remote Control                           | RC-1250         |
|                                     |                                                                    |    | Power Consumption in W                          | 900W            |
|                                     | 190 watts per channel<br>(6 ohm, 1kHz, 0.7% 2ch Drive)             |    | Power Consumption No-Sound<br>(ECO on/off) in W | 70W/125W        |
|                                     |                                                                    |    | Standby Consumption in W                        | 0.1W            |
|                                     | 210 watts per channel<br>(6 ohm, 1kHz, 1% 1ch Drive)               |    | CEC Standby Consumption in W                    | 0.5W            |
| Other                               |                                                                    |    | Network Standby<br>Consumption in W             | Less than 2.0W  |
| Auto Speaker Setup<br>by Microphone | Audyssey MultEQ XT32<br>Dirac Live (upgrade)                       |    | Maximum Dimensions                              |                 |
| Front Display                       | 2-Line FLD                                                         |    | Antenna, Horizontal:<br>(W × D × H) in mm       | 434 × 498 × 195 |
| GUI Languages                       | 9                                                                  |    | Antenna, Vertical:<br>(W × D × H) in mm         | 434 × 498 × 259 |
|                                     |                                                                    |    | w/o Antenna:<br>(W × D × H) in mm               | 434 × 493 × 195 |
|                                     |                                                                    |    | Weight in kg                                    | 32 kg           |
|                                     |                                                                    |    | Weight in kg (Packaging)                        | 38 kg           |

| Inputs/Outputs                |                  |
|-------------------------------|------------------|
| VIDEO                         |                  |
| HDMI In/Out                   | 7/3              |
| AUDIO                         |                  |
| Analogue In/Out               | 5 (1 × XLR) / 0  |
| Phono (MM) In                 | Yes              |
| Digital In: Optical / Coaxial | 2 / 2            |
| Multi-Room Out: Anl./Dig.     | 2 / 0            |
| Multichannel Pre-Out          | Yes (17.4)       |
| Subwoofer Out                 | 4 (independent)  |
| Other                         |                  |
| Available Finishes            | Black, Pr.Silver |
| Number of Speaker Terminals   | 17               |
| Speaker A/B                   | Assignable       |
| Bi-Amp Drive                  | Assignable       |
| Multi-Room Speaker Terminal   | Assignable       |
| EAN AVCA1HBKE2 (Black)        | 0747192137465    |
| EAN AVCA1HSPPE2 (Pr.Silver)   | 0747192137472    |