



DENON AVR-A1H

AVR-A1H 15.4 Ch. 8K AV Receiver

With 15 channels of amplification, our most powerful transformer, carefully selected parts, and hefty, high-rigidity construction, the AVR-A1H supports up to a 9.4.6 configuration and delivers a professional theater 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 150W per channel (at 8 ohms, 20-20kHz, THD 0.05%, 2ch driven).
Unparalleled quality and performance	The largest power transformer we have ever used and new, larger capacitors make AVR-A1H respond quickly and dynamically to your music to reproduce audio as the artist intended.
The latest technologies	Equipped with the latest dual-core, 1GHz digital signal processor (DSP) and the latest HDMI standards, the receiver 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 Pre-Amplifier mode, both RA and XLR subwoofer connections, and integration with home automation control systems.
Setup and room correction	Denon's award winning setup assistant provides step by step setup instructions. Supports the highest suite of Audyssey MultEQ technologies (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 from a variety of free and premium streaming services. Share content to HEOS-enabled devices, like Denon Home speakers, in other rooms.
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®

Unleash a fully immersive 3D audio experience from Dolby Atmos content starting from a 5.1.2 speaker setup. Dolby Surround upmixer engages all speakers to create 3D audio sensation from legacy content. Dolby Atmos Height Virtualization Technology creates the sensation of overhead sound even without a 5.1.2 system.

You can also enjoy Dolby Atmos music tracks available from Apple Music, Amazon HD, and TIDAL through a compatible streaming device.

DTS:X

DTS:X immersive audio content places sound where it would naturally occur in space, creating life-like, 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.

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. IMAX Enhanced compatible TV or projector is required.

Auro 3D®

Auro 3D elevates the home theater experience to amazing new levels by delivering the excitement of three-dimensional sound for music, games, broadcasts, and films, putting you in a cocoon of lifelike sound. Turn your existing audio-visual collection into an Auro 3D experience, thanks to the Auro-Matic upmixing engine. Supports up to 7.1.4 or 5.1.6 Auro 3D speaker configurations with external two-channel amplifier.

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 a 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. Stay tuned for further updates!

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 4K content. Supports HDCP 2.3, the latest copy protection standard, for peace of mind when streaming copy-protected content.

Brilliant color 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

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

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 across compatible HEOS components from a variety of free and premium streaming services. Consumers can also enjoy their favorite 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 hi-res audio playback from a USB drive. Supported audio formats are MP3, WMA, WAV, MPEG-4/AAC, FLAC, and ALAC.

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 room correction technology. The other supported Audyssey features are Dynamic EQ, and Dynamic Volume.

AL32 Processing Technology

AL32 Processing, a Denon proprietary analog 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/ for more information. Upgradability will be supported via a future firmware update. Stay tuned!

Josh.ai

Josh.ai offers flexible voice control for nearly any aspect of your day-to-day experience and entertainment environment. Use voice commands to control the thermostat, lights, home appliances, speakers, AV receivers, and more. Josh.ai is installed by custom integrators and accessed through an app on your phone or tablet. Works with iOS and Android devices (US only).

Technical Information	
Number of Power Amps	15
Power Output	150 watts per channel (8 ohm, 20Hz - 20kHz, 0.05% 2ch Drive)
	190 watts per channel (6 ohm, 1kHz, 0.7% 2ch Drive)
	260 watts per channel (6 ohm, 1kHz, 10% 1ch Drive)
Other	
Auto Speaker Setup by Microphone	Audyssey MultEQ XT32 Dirac Live (upgrade)
Front Display	2-Line FLD
GUI Languages	English, Japanese, French

General	
System Remote Control	RC-1250
Power Consumption in W	900W
Power Consumption No-Sound (ECO on/off) in W	70W/125W
Standby Consumption in W	0.1W
CEC Standby Consumption in W	0.5W
Network Standby Consumption in W	Less than 2.0W
Maximum Dimensions	
Antenna, Horizontal: (W x D x H) in inches	17.1 x 19.6 x 7.7
Antenna, Vertical: (W x D x H) in inches	17.1 x 19.6 x 10.2
w/o Antenna: (W x D x H) in inches	17.1 x 19.4 x 7.7
Weight in lbs	70.5 lbs
Weight in lbs (Packaging)	80 lbs (TBD)

Inputs/Outputs	
VIDEO	
HDMI In/Out	7/3
AUDIO	
Analog In/Out	5 (1 x XLR) / 0
Phono (MM) In	Yes
Digital In: Optical / Coaxial	2 / 2
Multi-Room Out: Analog / Digital	2 / 0
Multichannel Pre-Out	Yes (17.4)
Subwoofer Out	4 (independent)
Other	
Number of Speaker Terminals	17
Speaker A/B	Assignable
Bi-Amp Drive	Assignable
Multi-Room Speaker Terminal	Assignable