

DENON



DENON AVR-X8500HA

13.2Ch 8K AV Receiver with 3D Audio, HEOS® Built-in and Voice Control

Powering the next generation in entertainment, the AVR-X8500HA offers powerful 13 channel amplification and full 8K passthrough. Our newest flagship AV Receiver supports the latest surround sound formats, such as Dolby Atmos®, DTS:X®, DTS:X® Pro, IMAX Enhanced®, and even Auro-3D®. HEOS® Built-in adds wireless music streaming, voice control, and multi-room capability to your home entertainment.

HIGHLIGHTS

YOUR BENEFITS

Ultimate-performance discrete 13-channel amplifier

Delivers a precise and powerful 150W per channel (8 ohms, 20Hz-20kHz, THD: 0.05%, 2ch drive), to provide trusted, precise, and powerful Denon sound.

Full 8K/60Hz and 4K/120Hz pass-through and upscaling

With support for the latest in HDMI technology, you can enjoy 8K video with the highest quality available, with 1 supported 8K input and 2 outputs allowing for 8K/60Hz and 4K/120Hz pass-through and upscaling. 8K upscaling is available on all 8 HDMI inputs.

Enhanced Audio Return Channel (eARC) HDMI support

Through the main HDMI output, connect your TV via eARC to allow uncompressed and object-based audio formats like Dolby Atmos® and DTS:X® directly from your smart TV app to the AV receiver.

The latest, next-gen sound

Enjoy immersive 3D audio from your favorite movies with Dolby Atmos®, Dolby Atmos Height Virtualization, DTS:X®, DTS Virtual:X®, DTS:X® Pro, and Auro-3D®.

The latest in video compatibility

Supports all leading High Dynamic Range formats including HDR10, HDR10+, HLG, Dolby Vision, as well as Dynamic HDR to provide exceptional brightness, clarity, and contrast for the greatest picture quality.

Hi-Res Audio streaming for Hi-Fi enthusiasts

Enjoy your favorite digital Hi-Res Audio files with FLAC, ALAC, and WAV support, as well as DSD 2.8/5.6MHz.

HEOS® Built-in wireless multi-room music streaming technology

Listen from any room for a connected, whole-home audio experience. The AVR-X8500HA also works with the newly introduced Denon Home speakers to let you enjoy a whole-home audio experience.

Wireless streaming from the most popular music services

Enjoy all your favorite music services like Spotify®, Pandora®, Amazon Music HD, TIDAL, SiriusXM, Deezer, and more for limitless listening enjoyment. The AVR-X8500HA also lets you enjoy your music via AirPlay 2, letting you stream your favorite tracks from Apple Music.

SINCE 1910 | DEFINING AUDIO EXCELLENCE





The Ultimate 13.2 Channel Home Theater Experience

Featuring Denon's most advanced and sophisticated power amplifier design, the AVR-X8500HA delivers high-power performance at 150 watts per channel (8 Ohms, 20Hz-20kHz, THD: 0.05%, 2ch driven) to ensure a dynamic and precise entertainment experience. Low impedance drivers provide operational stability for a wide range of speakers and create a balanced, tonal sound.

Advanced 8K HDMI Video Section and Various HDR Format Support

Enjoy your favorite movies, shows and games with the best picture quality available. The AVR-X8500HA offers an advanced HDMI section (8 in/3 out) with a dedicated 8K input that supports 8K/60Hz or 4K/120Hz video pass-through. All HDMI inputs feature 4:4:4 Pure Color sub sampling, HDR10, Dolby Vision, Hybrid Log-Gamma (HLG) and BT.2020 pass-through support for exceptional color, clarity, and contrast. Enjoy 8K upscaling and HDCP 2.3 processing to freely play copy-protected content on all HDMI inputs.

Brilliant Color – Universal Compatibility, HDR10+ and Dynamic HDR

The AVR-X8500HA supports High Dynamic Range video formats HDR10, Dolby Vision, and HLG (Hybrid Log Gamma). Dolby Vision transforms the viewing experiences with astonishing brightness, contrast, and color. HLG offers HDR technology over broadcast content for a crisper, cleaner image. The AVR-X8500HA also supports HDR10+, which sends dynamic meta data to the TV for more realistic images, as well as Dynamic HDR.

(Some technologies are not available on all televisions.)

Full 3D Audio Support up to 13.2 Channels

Immerse yourself in 3D audio with Dolby Atmos[®], Dolby Atmos Height Virtualization Technology, DTS:X[™], DTS Virtual:X[™], DTS:X Pro[™], IMAX[™] Enhanced, and Auro-3D[™]. The AVR-X8500HA supports up to 13.2 channels to power up to a 7.2.6 or 9.2.4 speaker configuration for more immersive, 3D audio experiences.

Enhanced Audio Return Channel (eARC) Support

The main HDMI output of the AVR-X8500HA supports eARC (enhanced Audio Return Channel) to enable uncompressed and object-based audio transmission, like Dolby Atmos and DTS:X, directly from your smart TV apps.

Dolby Atmos[®] and Dolby Atmos Height Virtualization Technology

Feel every dimension in Dolby Atmos. Enjoy a 7.1 or 9.1 surround sound speaker system and additional overhead speakers or Dolby Atmos elevation speakers for the ultimate home theater experience – including Dolby Surround up-mixer for legacy content.

For those without in-ceiling speakers, Dolby Atmos Height Virtualization Technology leverages Dolby's deep understanding of human audio perception to create the sensation of overhead sound from listener-level speakers.

DTS:X[™] and DTS Virtual:X[™]

DTS:X[™] immersive audio content places sound where it would naturally occur in space, creating life-like 3D audio. The included spatial remapping engine of DTS Neural:X[™] offers improved immersion and heightened realism for all your favorite movies.

DTS Virtual:X[™] provides immersive audio without height channels, creating virtual height effects in a 7.1, 5.1, or 2.1 speaker arrangement.

DTS:X[™] Pro

Featuring the latest audio format support to experience your entertainment decoded with the most current DTS 3D audio technology. Enjoy up to 13.2 channels of audio processing with DTS:X[™] Pro for full surround sound in exquisite detail.

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. Content is digitally remastered by IMAX for clearer, brighter images and immersive, heart-pounding audio.

Auro-3D[™]

With a combination of traditional channels supporting up to a 13.2 configuration and dedicated height and overhead channels, Auro-3D[™] provides an immersive surround sound experience. Audio formatting identifies sound objects individually and projects them to different spaces in your listening environment, creating an immersive, 3D sound stage.

Take A Role in All of Your Favorite Films

Enjoy all your entertainment with the latest technology available and watch your movies in unprecedented clarity. Experience movies in 8K with 8K/60Hz pass-through or upscaling, as well as the latest in AV receiver technology like Quick Media Switching (QMS) which is used to eliminate video delay in movies.

The Next Level in Gaming

The AVR-X8500HA delivers the most up to date gaming thrills with 4K/120Hz pass-through, as well as Variable Refresh Rate (VRR), Quick Frame Transport (QFT), and Auto Low Latency Mode (ALLM), which reduces or eliminates lag and frame tearing to offer a smoother, lag-free gaming experience.

Works with Amazon Alexa

Use hands-free control 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-X8500HA, HEOS devices, and other select Denon products. External voice access point needed.

Works with Google Assistant

Start music in the HEOS app, then ask your Google Assistant to control volume, play, pause, skip tracks and more. External voice access point needed.

Works with Josh.ai

An elevated voice agent for the high-end smart home, 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 receiver, 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.

Apple AirPlay 2 Built-in

Use AirPlay 2 to stream Apple music wirelessly to the AV receiver, or group with other AirPlay compatible speakers to fill your home with music.

Built-in Bluetooth and Wi-Fi Capability

The Denon AVR-X8500HA is equipped with an advanced dual antenna transceiver system for robust Bluetooth or WiFi streaming even in congested urban environments. Enjoy listening to your favorite audio content wirelessly from your smart devices.

HEOS[®] Built-in Multi-Room Streaming

With HEOS Built-in, every room in your home can have its own sound. Or, group HEOS enabled devices like wireless speakers, soundbars, or AV receivers to fill the house with the same song, using your home network. With HEOS Built-in, multi-room means multiple options. Also works with Amazon Alexa, Google Assistant, Apple Siri, and Josh.ai to provide modern voice control and incredible sound for all your home entertainment.

HEOS[®] supports all your favorite free and premium services like Spotify, Pandora, Amazon Music HD, TIDAL, TuneIn, SoundCloud, SiriusXM, and more.

(Not all music services available in all regions.)

High-Resolution Audio Support

Discover the incredible fidelity of Hi-Res Audio tracks with the ability to decode up to 192-kHz/24-bit ALAC, FLAC and WAV lossless files as well as DSD 2.8MHz and 5.6MHz tracks (the audiophile format of SACD) via the front panel USB port and network sources. Or, listen to other popular file types such as MP3.

AL32 Processing Multichannel

Listen with advanced Denon audio processing features such as AL32 Processing. Denon-proprietary AL32 Processing technology provides multi-channel, ultra-high-resolution digital audio filtering on all audio channels and delivers a natural soundstage with enhanced sound imaging.

Phono Input for Turntable / Vinyl Support

The AVR-X8500HA offers the latest in AV receiver technology yet remains deeply committed to the Denon legacy of audio excellence. The included phono input lets you connect your turntable and enjoy your vinyl collection in exceptional clarity.

Technical Information	
Number of Power Amps	13
Power Output	210 watts per channel (6 ohms, 1 kHz, THD: 1%, 1ch driven)
	190 watts per channel (6 ohms, 1 kHz, THD: 0.7%, 2ch driven)
	150 watts per channel (8 ohms, 20Hz-20kHz, THD: 0.05%, 2ch driven)
Speaker Impedance	4-16Ω/ohms
Preamplifier Section	
Input Sensitivity/ Impedance	200 mV
Frequency Response	10 Hz- 100 kHz - +1, -3 dB (Direct Mode)
S/N Ratio	102 dB (IHF-A weighted, Direct mode)
FM Section	
Tuning Frequency Range	87.5 - 107.9 MHz
AM Section	
Tuning Frequency Range	520-1710 kHz
General	
Power Supply	120V/60 Hz
Power Consumption	900W (Standby 0.1W, CEC standby 0.5W)
Power Consumption (No Sound)	70W (ECO Mode On) 125W (ECO Mode Off)
Maximum Dimensions (WxDxH)	
Antenna:Horizontal (in)	17.1 x 19.0 x 7.7
Antenna:Vertical (in)	17.1 x 19.0 x 10.2
w/o Antenna: (in)	17.1 x 18.6 x 7.7
Carton Dimensions (Packaging) (WxDxH) (in)	22.4 x 21.2 x 12.9
Weight (lbs)	51.4
Weight (Packaging) (lbs)	59.3

Ports			
In	HDMI (Front + 1)	x7 + 1	
	8K HDMI	x1	
	Component (Video)	x3	
	Composite	x4	
	Phono	x1	
	Analog Audio	x6	
	Digital Optical	x2	
	Coaxial	x2	
	Out	HDMI Monitor (eARC)	x3 (1 w/ eARC)
		8K HDMI	x2
Component (Video)		x1	
Composite		x2	
	Audio Pre-out (SW)	15.2 ch	

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