

DENON®

PRODUCT INFORMATION



DENON AVR-X8500H

THE WORLD'S FIRST 13.2 CHANNEL RECEIVER

WORLD-CLASS HOME ENTERTAINMENT



The Denon Flagship AVR-X8500H powers the next generation of home theater with the world's first 13.2 channel receiver that supports the latest immersive audio formats, including Dolby Atmos®, DTS:X and Auro-3D. Built-in HEOS technology that supports Amazon Alexa takes music listening to the next level with support for your favorite music streaming services and voice control.

HIGHLIGHTS

- 13.2 channel AV receiver with 150W per channel
- 150 watts per channel (8 ohms, 20 Hz - 20 kHz, THD 0.05%, 2ch driven)
- Monolithic amplifier design with Denon custom-made transistors
- Supports Dolby Atmos (up to 7.1.6 or 9.1.4), DTS:X and Auro-3D (up to 13.1)
- High-performance 192kHz/32bit D/A converters for all channels
- Audyssey MultEQ XT32, LFC, Sub EQ HT, Dynamic Volume and DynamicEQ
- 4K/60 Hz, 4:4:4 color resolution, HDR, BT.2020, Dolby Vision and HLG
- 8 HDMI inputs (including 1 front) with full HDCP 2.2 support and 3 HDMI outputs
- HEOS wireless music streaming technology and the HEOS app
- AirPlay, Bluetooth, Internet Radio, Spotify Connect, Tidal, Deezer, Network Audio Streaming
- High resolution DSD (2.8/5.6MHz), FLAC, ALAC and WAV support
- Audyssey MultEQ XT32, Dynamic Volume and Dynamic EQ, LFC, Sub EQ HT
- Advanced multi-room options; 11.2ch pre-out; RS232 control

YOUR BENEFITS

- 13 powerful amplifiers for an ultimate 3D audio performance with Denon sound
- Clearer, more powerful sound
- Ultimate build-quality for a reference-class audio experience
- Enjoy an immersive, three-dimensional audio experience
- Provides the highest resolution for music and movies
- Complete customized equalization in your listening room
- Provides the greatest picture quality
- Connect up to eight of your favorite media devices and output to three displays
- Listen from any room of your home
- Access to a wide array of unlimited online music sources
- High resolution audio streaming for HiFi enthusiasts, even in gapless
- Delivers ultimate equalization for your individual room including subwoofer EQ
- Audio and video in multiple rooms; ready for third-party home automation systems



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Powerful 13.2 Channel Home Theater Experience

Ushers in a leading-edge home theater experience with a 13.2 channel array that provides the most immersive sound experience available and the highest quality video with 4K Ultra HD, HDR, Dolby Vision, and more.

Supports Latest Surround Audio Formats

Immerse yourself in multi-dimensional sound — the Denon AVR-X8500H powers Dolby Atmos, DTS:X and Auro-3D formats. Auro 3D will be enabled via future firmware update at no additional charge.

Dolby Atmos

Immerse yourself in multi-dimensional audio with Dolby Atmos. Enjoy a 7.1.6 or 9.1.4 surround sound speaker system with as many as 6 overhead speakers or Dolby Atmos elevation speakers for the ultimate home theater experience.

DTS:X™

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 favorite movies. The included DTS Neural:X™ gives your movies, games and music a realism unmatched by traditional 5.1 surround sound.

Auro-3D

Auro-3D provides an immersive surround sound experience thanks to dedicated height and overhead channels, in addition to traditional channels supporting up to a 13.1 configuration. Formatting identifies sound objects individually and projects them to different spaces in your listening environment, creating an immersive, three-dimensional sound stage. Auro 3D will be enabled via a future firmware update at no additional charge.

Dolby Vision

Enjoy the latest in picture quality with Dolby Vision compatibility as well as support for 4K/60 Hz full-rate pass-through, 4:4:4 color resolution, HDR and BT.2020.

Built-in Bluetooth, Wi-Fi and AirPlay Capability

Featuring Bluetooth and Wi-Fi wireless streaming connectivity, the Denon AVR-X8500H is equipped with an advanced dual antenna transceiver system for robust streaming even in congested urban environments. Plus, with Apple's AirPlay compatibility, you can enjoy listening to your favorite audio content wirelessly from your iOS devices such as an iPhone or iPad.

HEOS

Built-in HEOS technology lets you enjoy your favorite music in any room of your home for a wireless, whole-home audio experience. Play the same song in every room, or select a different song for each connected room — the choice is yours. Also works with Amazon Alexa, providing cutting-edge voice control and incredible sound for all of your home entertainment.

High-Resolution Audio Support

Discover the incredible fidelity of high-resolution audio tracks with the ability to decode up to 24-bit/192-kHz 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.

Smart TV Connectivity

Control your Denon AVR-X8500H with your Smart TV remote via the HDMI CEC functionality associated with your Smart TV. Simply set "HDMI Control" to ON in your receiver, then set "Smart Menu" to ON and begin controlling the AVR-X8500H with your TV remote. The Smart Menu home screen provides quick access to source and surround mode selections, the AVR's setup menu and four Smart Selects.

Best Possible Sound Stage

For optimum fidelity and the widest dynamic range with lowest distortion, the Denon AVR-X8500H features advanced reference-class 32-bit AKM AK4458VN D/A converters on all channels. Enjoy consistent high-fidelity and precise channel matching for the ultimate listening experience.

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 — Denon's investment in audio R&D ensures you are getting the latest technology and highest quality with every listening experience.

Audyssey MultEQ

Equipped with the full Audyssey Platinum suite of advanced DSP algorithms, the AVR-X8500H features Audyssey MultEQ XT32 automatic room acoustic correction. With the supplied measurement microphone, MultEQ XT32 analyzes each speaker's output (including the subwoofers) at up to eight measurement locations and generates precision digital filters that optimize each channel for the correct frequency and time domain response. Plus, the Audyssey MultEQ Editor app lets you view and adjust settings for detailed tuning and customize the sound more precisely to your room and tastes.

External Control and IP Control Capabilities

As a part of Denon's range of IN-Command series of custom-integration-friendly AV components, the AVR-X8500H comes equipped with a range of features to provide enhanced control capabilities and compatibility with third-party and custom integration solutions. It features IP control capability for integration with major third-party control devices and Control4 SDDP (Simple Device Detection Protocol) certification. An RS-232C serial port is available to directly connect to external home automation and control equipment, and an IR (infrared) remote control input on the rear panel enables remote control compatibility with other components in your home theater system.



Technical information

Number of power amps	13 (Front L/R, Center, Surround L/R, Surround Back L/R, Height 1 (Front wide) L/R, Height 2 L/R, Height 3 L/R, Height 4 Front Wide L/R)	S/N Ratio	100 dB (IHF-A weighted, DIRECT mode)
Power output	205 watts per channel (6 ohms, 1 kHz, THD 1%, 1ch driven)	FM section	
	175 watts per channel (6 ohms, 1 kHz, THD 0.7%, 2ch driven)	Tuning frequency range	87.5 - 108 MHz
	150 watts per channel (8 ohms, 20 Hz - 20 kHz, THD 0.05%, 2ch driven)	AM section	
Speaker impedance	4 - 16 ohms	Tuning frequency range	522 kHz - 1611 kHz
Preamplifier section		General	
Input sensitivity/impedance	200 mV / 47 kohms	Power supply	AC 230 V, 50 Hz
Frequency response	10 Hz - 100 kHz — +1, -3 dB (DIRECT mode)	Power consumption	750 W (Standby 0.1 W, CEC standby 0.5 W)
		Power consumption No-Sound	65 W (ECO on), 110 W (ECO off)
		Dimensions (W x H x D)	17.1" x 7.7" x 19.0" in
		Weight	51.4 lbs

UPC	AVRX8500HBKE3	883795004374	Black
	AVRX8500HSP3	883795004381	Premium Silver

Ports

IN	HDMI (Front 1)	x 8
	Component (video)	x 2
	Composite (video) (Front 1)	x 4
	Phono	x 1
	Analog Audio	x 6
	Digital Optical / Coaxial	x 2 / x 2
	USB (front)	x 1
OUT	HDMI Monitor / Zone 2	x 2 / x 1
	Component	x 1
	Composite Monitor	x 1
	Audio Pre-out (SW)	11.2 ch
	Zone 2 / Zone 3 Pre-out	2.0 ch
	Phones	x 1
OTHER	Ethernet	x 1
	Microphone Port	x 1
	FM Tuner Antenna	x 1
	AM Tuner Antenna	x 1
	RS232 / 12 V Trigger out	x 1 / x 1

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* All specs can be subject to change