



DENON AVC-X6500H

11.2 CH 4K AV AMPLIFIER WITH 3D AUDIO AND VOICE CONTROL



CUTTING-EDGE HOME THEATER

The 11.2 channel AVC-X6500H supports Dolby Atmos, Auro-3D, and DTS:X for an enhanced home theater experience. It features 8 HDMI inputs and 3 outputs that support Dolby Vision, HDR10, HLG and 4K Ultra HD. Stream Spotify, Amazon Music, Tidal and more with HEOS built-in and control it with your voice.

HIGHLIGHTS

- 11.2 channel AV Amplifier with 205W per channel
- Supports Dolby Atmos, DTS:X, Auro-3D and DTS Virtual:X
- Monolithic Amplifier Design with Denon Custom Made Transistors
- Amazon Alexa, Apple Siri & Google Assistant voice control compatibility
- 8 HDMI inputs (incl. 1 front) and 3 HDMI outputs with full HDCP 2.2 support
- Enhanced Audio Return Channel (eARC) (via future firmware update)
- 4K/60 Hz full-rate pass-through, Dolby Vision compatibility, HDR10, HLG and BT.2020
- Audyssey MultEQ XT32, Dynamic Volume and Dynamic EQ, LFC, Sub EQ HT
- Award-winning Denon guided setup assistant and graphical user interface
- HEOS wireless music streaming technology and the HEOS app
- AirPlay, Bluetooth, Internet Radio, Spotify Connect, Tidal, Deezer, Network Audio Streaming
- Front panel USB input
- “ihiji Invision” and “Domotz Pro” remote system monitoring and management technology, RS232 Control

YOUR BENEFITS

- 11 powerful amplifiers in a monolithic design for ultimate clarity and power
- Enjoy a truly immersive, three-dimensional audio experience
- Ultimate build-quality for reference-class audio experience
- Voice control of your home theater and wireless music services
- Connect to eight media devices and output to three displays
- Supports the latest 3D audio such as Dolby Atmos and DTS:X from your TV
- Provides the greatest picture quality for brightness, clarity and contrast
- Delivering ultimate equalization for your individual room including subwoofer EQ
- Easy and intuitive out-of-box and setup experience
- Listen from any room of your home
- Access to a wide array of unlimited online music sources
- Convenient audio playback of MP3, WAV, FLAC, ALAC and DSD (2.8/5.6MHz) files
- Lets custom integrators monitor and troubleshoot remotely, drastically reducing downtime

DENON 100+ YEARS “LEGACY OF FIRSTS” IN AUDIO TECHNOLOGY



Powerful 11-channel Amplifier with the Latest Home Cinema Specs

Featuring a sophisticated power amplifier design, the AVC-X6500H delivers high-power performance at 205 watts per channel (6 Ohms, 1kHz, 1%, 1ch Drive). Low impedance drivers provide operational stability for a wide range of speakers and create balanced, tonal sound. The AVC-X6500H features three-dimensional sound formats Dolby Atmos, DTS:X, DTS Virtual:X and Auro-3D, plus an HDMI section with HDCP 2.2 support and advanced video processing with 4K scaling for HDMI sources and two 12V trigger outputs to connect external devices.

Dolby Atmos, DTS:X, DTS Virtual:X and Auro-3D

Immerse yourself in multi-dimensional audio with Dolby Atmos, DTS:X, DTS Virtual:X and Auro-3D. Set up Dolby Atmos with a 5.2.4 or 7.2.4 surround sound speaker system using Dolby Atmos elevation speakers, or dedicated overhead speakers, for the ultimate home theater experience. DTS:X and Neural:X™ give your movies, games and music a realism unmatched by traditional 5.1 surround sound. DTS Virtual:X provides immersive audio without height channels, creating virtual height effects in a 5.1, 7.1 or 2.1 speaker arrangement. Auro-3D® elevates the home theater experience to amazing new levels by delivering the excitement of three-dimensional sound for music, games, broadcast and films while enhancing your existing audio-visual collection through the Auromatic upmixing engine.

Voice Control

Control the AVC with your voice and Amazon Alexa, Apple AirPlay/Siri or Google Assistant. Adjust the volume, skip to the next track, switch inputs for your different media players and more — “Just Ask.” Download the HEOS and relevant Voice Control App to enable voice commands.

Advanced HDMI Video Section with eARC

The latest HDMI specs for the best home theater experience. All eight HDMI inputs — and three HDMI outputs — feature HDCP 2.2 Support that lets you enjoy copy-protected content uninhibited. Watch movies and shows with 4K Ultra HD 60Hz video, 4:4:4 Pure Color sub-sampling, Dolby Vision, High Dynamic Range (HDR10), Hybrid Log-Gamma (HLG), eARC (enabled via firmware update) 21:9 video, 3D and BT.2020 passthrough support for exceptional color, clarity and contrast. Certified by the Imaging Science Foundation, the AVC-X6500H features a full suite of video calibration controls (for use by an ISF technician), along with ISF Day and ISF Night video modes.

Multi-source, Multi-room

With the Denon AVC-X6500H, it's possible to enjoy 5.1 channel surround sound in one room and a separate source or music stream in up-to two others for a total of 3 sources and 3 zones. Watch a movie in one room while another family member listens to music in a different zone without interruption.

Brilliant Picture Quality

The AVC-X6500H supports High Dynamic Range (HDR10) video format, 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.

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 Denon AVC-X6500H AV receiver features “ihiji Invision” and “Domotz Pro” remote system monitoring and management technology.

Easy Setup Experience

The included AVC-X6500H Quick Start Guide provides simple, clear instructions for how to get started. Once you connect your TV to the AVC-X6500H via HDMI, the exclusive Denon Setup Assistant appears on your TV screen to walk you through setup, step-by-step. A row of color-coded speaker connections is laid out horizontally, making organizing and connecting speaker wires simple.

Built-in Bluetooth®, Wi-Fi and AirPlay 2 Capability

The heart of your wireless network. With Bluetooth and Wi-Fi wireless streaming connectivity, the Denon AVC-X6500H 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.

Audyssey Audio Optimization

The AVC-X6500H easily guides you through the set-up process to ensure the most accurate configuration. Optimize all settings for the best possible sound and video quality with your system from the get-go. The most advanced Audyssey MultEQ XT32 room measurement system provides the best sound in every room — and with the optional MultEQ Editor app, go under the hood and set to your exact specifications.

Quick Selects for User-friendly Audio Tuning

The Denon AVC-X6500H front panel features four Quick Select buttons that store your preferred audio settings for each source. Switch between TV audio, Blu-ray, media players and more. Use the buttons on the front panel or opt for the same Quick Selects on the AVC remote for faster control.

Denon AVC Remote App for Seamless Control

Better control in your back pocket. The free Denon AVR Remote for iOS and Android makes using the AVC-X6500H even easier — adjust volume, turn it on or off, mute the music, select a source or switch to HEOS. Download the free Denon AVR Remote app to your smartphone or tablet today.

DSP Power Processing

Incredible power for your music and movie needs. The AVC-X6500H 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 AVC-X6500H supports the latest video, sound and processing needs.

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	11 (Front L/R, Center, Surround L/R, Surround Back L/R, Height 1 (Front wide) L/R, Height 2 L/R)
Power output	205 watts per channel (6 ohms, 1 kHz, THD 1%, 1ch driven)
	175 watts per channel (6 ohms, 1 kHz, THD 0.7%, 2ch driven)
	140 watts per channel (8 ohms, 20 Hz - 20 kHz, THD 0.08%, 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	100 dB (IHF-A weighted, Direct mode)
General	
Power supply	AC 230 V, 50/60 Hz
Power consumption	750 W (Standby 0.1 W, CEC standby 0.5 W)
Power consumption (No-Sound)	65 W (ECO Mode on), 110 W (ECO Mode off)
Dimensions (W x H x D)	434 x 167 x 379 mm
Weight	14.6 kg

Ports		
IN	HDMI (Front 1)	x 8
	Component (video)	x 2
	Composite (video)	x 4
	Phono	x 1
	Analog Audio	x 6
	Digital Optical / Coaxial	x 2 / x 2
OUT	USB (front)	x 1
	HDMI Monitor / Zone 2	x 2 / x 1
	Component (video)	x 1
	Composite (video)	x 1
	Audio Pre-out	11.2 ch
	Zone 2 / Zone 3 Pre-out	2.0 ch
	Phones	x 1
	RS232 / 12 V Trigger out	x 1 / x 2