



AVC-X3800H

Denon AVC-X3800H 9.4 Ch. 8K AV Receiver

Powering 180W per channel, the Denon AVC-X3800H 9.4 channel 8K AV amplifier delivers an enveloping 3D audio experience and amazing picture quality thanks to Dolby Atmos®, DTS:X®, and the latest HDMI technology featuring HDR10+, Dolby Vision™, and 8K video. Powered by HEOS® Built-in, access streaming music services and share with HEOS-enabled speakers in other rooms. With flexibility to set up the best speaker arrangement for your space and Audyssey MultEQ XT32 room correction technology to optimize the sound, we made this AV amplifier to meet the demands of home theatre enthusiasts, like you.

HIGHLIGHTS

YOUR BENEFITS

High performance 9-channel amplifier

Discrete high-current amplifiers deliver up to 180W per channel—enough power to drive any speaker.

3D audio experience

Get enveloped in sound with Dolby Atmos®, DTS:X®, IMAX Enhanced and Auro-3D, along with Dolby Surround, DTS Neural:X and Auro-Matic upmixer to optimize legacy content.

Configuration flexibility

AVC-X3800H offers many setup options and flexibility to adjust your home theatre to meet your needs. Supports 11.4 channel processing capability, Pre-Amplifier mode, and optional Dirac Live upgradability (with fee, coming soon in 2023).

Advanced 8K home theatre

8K video is supported on all six HDMI inputs and two of the three outputs. Enjoy easy video compatibility and great picture quality with HLG, HDR, Dolby Vision, HDR10+, and Dynamic HDR passthrough.

HEOS® built-in technology

Stream music wirelessly from a variety of free and premium streaming services. Share content to HEOS devices, like Denon Home speakers, in other rooms.

Audyssey room correction technology

Audyssey MultEQ XT32 room correction features are built in for accurate setup and calibration to provide the most optimal listening experience for your room.

Over a century of innovation

Founded in 1910, Denon enables 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 theater with height speakers to unleash a fully immersive 3D audio experience from Dolby Atmos content. 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 height speakers. You can also enjoy Dolby Atmos music tracks available from Apple Music, Amazon HD and TIDAL and a compatible streaming device.

DTS:X

DTS:X immersive audio content places sound where it would naturally occur in space, creating lifelike, multidimensional 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 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. See 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 5.1.4 speaker setup. IMAX Enhanced compatible TV or projector is required.

Auro-3D

Auro-3D elevates the home theatre experience to amazing new levels by delivering the excitement of threedimensional sound for music, games, broadcast, 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 Auro 3D speaker configuration with an external 2 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 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 amplifiers are capable of 360 Reality Audio playback by connecting a 360RA streaming device via HDMI. Stay tuned for further updates!

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 colour 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, lagfree gaming experience when connected with the compatible gaming devices.

HEOS Built-in

With HEOS' Built-in, your AV amplifier 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.

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 amplifier simple, with just a single HDMI connection

eARC provides HD and 3D audio transmission such as Dolby TrueHD, DTS HD Master Audio and Dolby Atmos while ARC is limited to conventional 5.1ch audio formats or PCM.

11-channel processing, 9- channel amplification

9-channel amplification does not mean you need to stop at max 11 channel speaker configuration. With external 2- channel amplification that can be assigned to either Front, Left, and Right, or a pair of height channels, you can setup an 11-channel speaker configuration such as 7.1.4, allowing you even more flexibility and an engulfing audio experience.

Subwoofer outputs & settings

Blanket yourself in evenly distributed, accurate bass. Featuring up to four subwoofer outputs to smooth out low frequencies and provide better dispersion. No audible peaks or dips – just powerful, roomfilling bass. Tweak your subwoofer settings to your preference when more than two subwoofers are connected. Select "Standard" if you want evenly distributed bass performance. Select "Directional" if you want more directional bass performance seamlessly integrated into the speaker channel closest to each subwoofer in the room.

Pre-Amplifier Mode

Your Denon AV amplifier can work as a perfect AV preamplifier with the latest HDMI connectivity. Pre-Amplifier Mode provides a cleaner signal path and more tolerance in clipping level by disconnecting internal amplifiers. Add the flexibility to disconnect select speaker channels so that you can use the AV amplifier's built-in amplification to drive non-critical channels to get a clearer signal path for the channels driven by external amplification.

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 hires audio playback from a USB drive. Supported audio formats are MP3, WMA, WAV, MPEG-4/AAC, FLAC, and ALAC.

Denon Setup Assistant

Award-winning guide Denon Setup Assistant provides simple, clear instructions to get started. Just connect your AV amplifier 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 amplifier renames HDMI inputs automatically when connected or you can rename manually at your convenience.

Audyssey premium suites of room correction technology

Denon AV amplifiers use the Audyssey suite of EQ software for simple, accurate set-up and calibration. With the supplied Audyssey measuring microphone, Audyssey measures all the speakers in your home theatre, and tunes the AV amplifier to provide the smoothest, most optimal overall listening experience for your room. This AV amplifiers supports Audyssey MultEQ XT32 room correction technology. The other supported Audyssey features are Dynamic EQ, and Dynamic Volume.

Audyssey MultEQ Editor App

You can go even further with the Audyssey MultEQ Editor app, going "under the hood" to view and adjust settings for detailed tuning—allowing you to customize the sound more precisely to the specific problems in your room, and tailor the sound to your personal preferences. With this comprehensive app, you can harness the power of Audyssey MultEQ XT32 to take total control of the way your home cinema sounds. The app is available for purchase in iOS and Google Play stores.

Dual speaker preset memory

Store two Speaker and Audyssey settings and switch between the two settings on the fly, giving you freedom to optimize your listening experience based on the content or listening environment. Settings also include Amp Assign, Speaker Config, Distances, Levels, Crossovers, Bass, Front Speaker, 2ch Playback, and Graphic EQ (when Audyssey is not used).

Technical Information		General	
Number of Power Amps	9	System Remote Control	RC-1253
Power Output	105 watts per channel (8 ohm, 20Hz-20Khz, 0.08%, 2ch drive)	Power Consumption	660W
	135 watts per channel (6 ohm, 1 khz, 0.7%, 2ch drive)	Power Consumption (No Sound)	60W/100W
	180 watts per channel (6 ohm, 1 kHz, 1%, 1ch drive)	Standby Consumption in W	0.1
Other	Compatible with Remote APP for smart phones	CEC Standby Consumption in W	0.5
		Denon 2016 AVR Remote	Maximum Dimensions (WxDxH)
Auto Speaker Setup by Microphone	Audyssey MultEQ XT32 Dirac Live (upgrade)	Antenna:Horizontal (mm)	434 x 389 x 167
Front Display	1-Line FLD	Antenna:Horizontal (mm)	434 x 389 x 236
GUI Languages	9	w/o Antenna: (mm)	434 x 379x 167
		Weight (kg)	12.5

Ports	
Video	
HDMI In/Out	6/3
Multi-Room Video Out: Video, HDMI	-, Yes
Audio	
Analogue In/Out	6/-
Phono (MM) In	Yes
Digital in: Optical/Coaxial	2/2
Multi-Room Out: Analogue, Digital	1,-
Multichannel Pre-Out	Yes (11.4)
Subwoofer Out	4 (independent)
Other	
Number of speaker terminals	11