

DENON®



DENON® AVC-X6800H

11.4 Ch. 8K AV Amplifier

Designed and manufactured in Japan, the AVC-X6800H drives 11.4 channels of amplification for an upscaled experience. With Dolby Atmos and DTS:X, plus IMAX Enhanced and Auro 3D, the AVC-X6800H envelops larger living spaces in breathtaking 3D audio. With HEOS® Built-in, wirelessly stream your favourite music.

HIGHLIGHTS

Powerful 11-channel amplifier

3D audio experience

Configuration flexibility

Advanced 8K home theatre

HEOS® Built-in technology

Audyssey room correction technology

Built to high standards

Over a century of innovation

YOUR BENEFITS

Featuring a sophisticated power amplifier in monolithic board design, the AVC-X6800H delivers high-power performance at 205 watts per channel to ensure a dynamic and precise entertainment 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.

AVC-X6800H offers many setup options and flexibility to adjust your home theatre to meet your needs. Supports 13.4 channel processing capability, Pre-Amplifier mode, Audyssey MultEQ XT32, and optional Dirac Live and Dirac Live Bass Control upgradability (with fee).

8K video is supported on all seven HDMI inputs and two of the three outputs. With HLG, HDR, Dolby Vision, HDR10+ and Dynamic HDR pass-through, there's no need to worry about video compatibility or picture quality.

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

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

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.

Founded in 1910, Denon enables the moments that matter through the relentless pursuit of quality, innovation, and audio performance.

SINCE 1910 | DEFINING AUDIO EXCELLENCE





Powerful 11-channel Monolithic Power Amplifier construction

Featuring a sophisticated power amplifier in monolithic board design, the AVCX6800H delivers high-power performance at 205 watts per channel to ensure a dynamic and precise entertainment experience. A single board per amplified channel compared to multiple amplifiers on one board reduces interference and crosstalk between channels to a minimum for best channel separation, clarity, and detail in sound.

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.

DTS:X

DTS:X immersive audio content places sound where it would naturally occur in space, creating life-like, multidimensional audio. DTS Neural:X upmixer offers improved immersion and heightened realism for legacy content.

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.

Auro 3D

Auro 3D® elevates the home theater 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 Auromatic upmixing engine.

360 Reality Audio

Immerse yourself in sound as real as if you are at a live concert or with the artist recording in a studio. With 360 Reality Audio, music has never been so real.

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.

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 colour, 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 online streaming services. Consumers can also enjoy their favourite 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 hires audio playback from a USB drive. Supported audio formats are MP3, WMA, WAV, MPEG-4/AAC, FLAC, and ALAC.

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 amplifier supports Audyssey MultEQ XT32 and SubEQ HT, Audyssey's highest room correction technology. The other supported Audyssey features are Dynamic EQ, Dynamic Volume and LFC (Low Frequency Containment).

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 to take total control of the way your home cinema sounds. The app is available for purchase in iOS and Google Play stores.

Dirac Live upgradeability

Purchase a Dirac Live® Room Correction and Dirac Live Bass Control license key to apply state-of-the-art, patented algorithms to analyze and digitally reduce room impact and enhance speaker performance.

Visit dirac.com/denon/ for more information.

Dual speaker preset memory

Store two speaker 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.

Three-source, three zones

The amplifier supports three-source, three-zones. You can drive three different zones with three different sources simultaneously, or all with the same source. Use the amplifier's internal amplification configurable in the setup, or use zone two and zone three pre-outs to connect with external amplifiers. One of the HDMI outputs can be used as a second A/V zone. Play your favourite playlists in your living room, kitchen and patio, or you can enjoy your favourite movies or the latest episodes from your favourite TV series with surround sound on your TV while the amplifier plays HEOS music in other rooms.

13.4 channel processing, 11 channel amplification

With external two-channel amplification that can be assigned to either Front Left and Right, or a pair of height channels, you can setup a 13 channel speaker configuration such as 7.1.6 or 9.1.4, allowing you even more flexibility and elevated immersive audio experience.

AL32 Processing technology

AL32 Processing, a Denon proprietary analogue waveform reproduction technology, supports up to 192kHz sampling frequency and performs a 32bit expansion on your amplifier. The technology thoroughly suppresses noise associated with D/A conversion to reproduce the low-level signals with optimum clarity that will 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.

Subwoofer outputs and settings

Immerse 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, room-filling 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.



Technical Information		General	
Number of Power Amps	11	System Remote Control	RC-1256
Power Output	140 watts per channel (8 ohm, 20Hz - 20kHz, 0.05% 2ch Drive)	Power Consumption in W	750W
	175 watts per channel (6 ohm, 1kHz, 0.7% 2ch Drive)	Power Consumption No-Sound (ECO on/off) in W	65W/110W
	205 watts per channel (6 ohm, 1kHz, 1% 1ch Drive)	Standby Consumption in W	0.1W
Other	Auto Speaker Setup by Microphone	CEC Standby Consumption in W	0.5W
	Front Display	Network Standby Consumption in W	Less than 2.0W
GUI Languages	9	Maximum Dimensions	
	EAN	Antenna, Horizontal: (W x D x H) in cm	434 x 389 x 167
		AVCX6800HBKE2 Black	Antenna, Vertical: (W x D x H) in cm
AVCX6800HSPE2 Silver	0747192140366	w/o Antenna: (W x D x H) in cm	434 x 379 x 167
	0747192140373	Weight in kg	15.6
		Weight in kg (Packaging)	18.2

Inputs/Outputs	
VIDEO	
HDMI In/Out	7/3
AUDIO	
Analog In/Out	7/0
Phono (MM) In	Yes
Digital In: Optical / Coaxial	2/2
Multi-Room Out: Analog / Digital	2/0
Multichannel Pre-Out	Yes (13.4)
Subwoofer Out	4 (independent)
Other	
Number of Speaker Terminals	13
Speaker A/B	Assignable
Bi-Amp Drive	Assignable
Multi-Room Speaker Terminal	Assignable