



DENON® AVR-X6800H

AVR-X6800H 11.4 Ch. 8K AV Receiver

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

HIGHLIGHTS

YOUR BENEFITS

Powerful 11-channel amplifier

Featuring a sophisticated power amplifier design, the AVR-X6800H delivers high-power performance at 140 watts per channel (8 Ohms, 20 Hz-20 kHz, THD: 0.05%, 2 ch. driven) to ensure a dynamic and precise entertainment experience.

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

AVR-X6800H offers many setup options and flexibility to adjust your home theater to meet your needs. Supports 13.4 channel processing capability, Pre Amplifier mode, and optional Dirac Live upgradability (with fee).

Advanced 8K home theater

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.

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

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

Built to high standards

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.

Over a century of innovation

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

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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.

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 three-dimensional 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 receiver 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 color 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, lag-free gaming experience when connected with the compatible gaming devices.

HEOS Built-in
With HEOS® Built-in, your AV receiver 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.

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 receiver 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 receiver renames HDMI inputs automatically when connected or you can rename manually at your convenience.

Audyssey premium suites of room-correction technology
Denon AV receivers 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 theater, and tunes the AV receiver to provide the smoothest, most optimal overall listening experience for your room. This AV receiver 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 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.

AL32 Processing technology
AL32 Processing, a Denon proprietary analog waveform reproduction technology, supports up to 192 kHz sampling frequency and 32bit expansion on your receiver. 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.

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

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 receiver's built-in amplification to drive non-critical channels to get a clearer signal path for the channels driven by external amplification.

OvrC
Domotix Pro and OvrC remote system monitoring and management technology programs allow custom integrators to monitor the status of connected products and troubleshoot remotely.

Josh.ai
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.

Technical Information			
Number of Power Amps		11	General
Power Output	140 watts per channel (8 ohm, 20Hz - 20kHz, 0.05% 2ch Drive)		
	175 watts per channel (6 ohm, 1kHz, 0.7% 2ch Drive)		
	250 watts per channel (6 ohm, 1kHz, 10% 1ch Drive)		
Other			
Auto Speaker Setup by Microphone	Audyssey MultEQ XT32 Dirac Live (upgrade)		
Front Display	2-Line FLD		
GUI Languages	English, Spanish, French		

Inputs/Outputs	
VIDEO	
HDMI In/Out	7/3
AUDIO	
Analog In/Out	6/0
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

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