

# DENON

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914-723-3344



## DENON AVR-S960H

### UPGRADE TO A SUPERIOR HOME THEATER EXPERIENCE

The Denon AVR-S960H 7.2 channel 8K Ultra HD AV receiver with 90W per channel fully supports 3D audio formats like Dolby Atmos®, Dolby Atmos Height Virtualization Technology, DTS:X® and DTS Virtual:X™, as well as the latest HDMI specifications such as 8K/60Hz or 4K/120Hz pass-through. Features Wi-Fi, Bluetooth, HEOS® Built-in wireless multi-room music streaming and voice control compatibility.

#### HIGHLIGHTS

#### YOUR BENEFITS

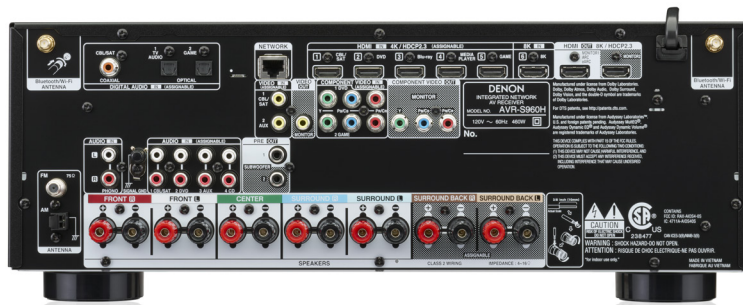
High-performance discrete 7-channel amplifier	Delivers maximum performance and 90W per channel (8 ohms, 20Hz-20kHz, THD: 0.08%, 2 ch. driven) to provide a dynamic and precise Denon sound experience.
Full 8K/60Hz and 4K/120Hz pass-through	With the latest in HDMI support, enjoy 8K quality video from your 8K source devices, with one 8K input and two outputs allowing for 8K/60Hz and 4K/120Hz pass-through. 8K upscaling is available on all 6 HDMI inputs.
Enjoy your favorite 3D audio formats	Enjoy immersive, 3D audio from sources like Dolby Atmos®, Dolby Atmos Height Virtualization, DTS:X® and DTS Virtual:X™ to enjoy your entertainment in its highest quality.
Enhanced Audio Return Channel (eARC) HDMI support	Through the main HDMI output, connect your TV with eARC HDMI support to allow uncompressed and object-based audio formats like Dolby Atmos and DTS:X directly from your smart TV app to your AV receiver.
The latest in video compatibility	The latest HDR format support including HDR10, HDR10+ (New in 2020), HLG, Dolby Vision, as well as Dynamic HDR (New in 2020) to provide the greatest picture quality for brightness, clarity and contrast.
The next generation in movie immersion	With 8K/60Hz pass-through and upscaling, Dynamic HDR and Quick Media Switching (QMS), enjoy crystal clear picture in the highest quality available.
The latest in gaming experiences	With 4K/120Hz pass-through, Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM) and Quick Frame Transport (QFT), enjoy your gaming experience w/ amazing imaging, as well as reduced lag and latency.
Works with your favorite voice services	Use your voice to control the AVR-S960H and wireless music services hands-free – works with Amazon Alexa, Google Assistant, Apple Siri and Josh.ai.
Wireless streaming from the most popular music services	Supports Spotify Connect, Pandora, Amazon Music HD, TIDAL, Sirius XM, Deezer and more. The AVR-S960H also lets you enjoy your music through AirPlay 2 so you can listen to all of your favorite tracks from Apple Music.
HEOS® Built-in wireless multi-room music streaming technology	Listen from any room for a connected, whole-home audio experience. The AVR-S960H also works with the newly introduced Denon Home speakers for a whole-home audio experience.

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**Ultimate Home Theater Experience – 8K Ready**

The AVR-S960H enables a superior movie experience with 8K/60Hz pass-through, as well as elevated gaming with 4K/120Hz pass-through and support for the latest HDMI specifications. With support for the highest quality 3D audio formats, experience your entertainment in more detail than ever. The new AVR-S960H lets you build the best 4K home theater today and gives you the comfort of knowing that your AV receiver is 8K ready when you are.

**High-Performance Discrete 7-Channel Amplifier**

Featuring discrete high-performance power amplifiers on all channels, the AVR-S960H powers 90W per channel (8 ohms, 20Hz-20kHz, THD: 0.08%, with 2 channels driven). With low impedance driver capability, it offers operational stability with a wide range of speakers for balanced, quality sound. Plus, Auto Eco Mode adjusts power output to speakers based on volume level and on-screen eco meter, providing power consumption reduction in real-time.

**Full 3D Audio Support**

Immerse yourself in 3D audio with Dolby Atmos®, Dolby Atmos Height Virtualization Technology, DTS:X™ and DTS Virtual:X™. Set up Dolby Atmos with a 5.1.2 surround sound speaker system using Dolby Atmos elevation speakers or dedicated overhead speakers for the ultimate home theater experience. DTS:X™ immersive audio places sound where it would occur naturally in space, creating a lifelike, 3D audio experience in the home. The improved immersion and heightened realism draw you into the world of your favorite movies. Dolby Atmos Height Virtualization Technology and DTS Virtual:X™ provides immersive audio without height channels, creating virtual height effects in a 7.1, 5.1 or 2.1 speaker arrangement.

**Advanced 8K HDMI Video Section and Various HDR Format Support**

Enjoy your favorite movies, shows and games with the best picture quality available. The AVR-S960H features an advanced HDMI section (6 in/2 out) with a dedicated 8K input that will support 8K/60Hz and 4K/120Hz video pass-through. All HDMI inputs feature 4:4:4 Pure Color sub sampling, Dolby Vision, HDR10, HDR10+, Hybrid Log-Gamma (HLG), Dynamic HDR, 3D, and BT.2020 pass-through support for exceptional color, clarity and contrast. Available on all HDMI ports, enjoy 8K upscaling, as well as HDCP 2.3, letting you enjoy copy-protected content uninhibited. The AVR-S960H also adopts eARC (enhanced Audio Return Channel) to support 3D audio formats directly from your smart TV apps to your AV receiver.

**Enhanced Audio Return Channel (eARC) Support**

The main HDMI output of the AVR-S960H supports eARC (enhanced Audio Return Channel) to enable uncompressed and object-based audio transmission directly from your smart TV apps to your AV receiver.

**Brilliant Color – Universal Compatibility, HDR10+ and Dynamic HDR**

The AVR-S960H supports High Dynamic Range video format, HDR10, Dolby Vision and HLG (Hybrid Log Gamma). Dolby Vision transforms the viewing experience with astonishing brightness, contrast, and color. HLG offers HDR technology over broadcast content for an elevated experience. The AVR-S960H also supports HDR10+, which sends dynamic meta data to your TV to create a more realistic image, as well as Dynamic HDR.

**The Latest Technology in Movie Experiences**

With the new AVR-S960H, enjoy all your entertainment with latest technology available and watch your movies in unrivaled clarity. Enjoy your movies in 8K with 8K/60Hz pass-through and upscaling, as well as advanced technologies like Dynamic HDR and Quick Media Switching (QMS), which is used in movies to eliminate video delay.

**The Next Generation in Gaming**

Showcased in the new AVR-S960H, enjoy gaming to its fullest potential. The AVR-S960H supports 4K/120Hz pass-through as well as Variable Refresh Rate (VRR), Quick Frame Transport (QFT), and Auto Low Latency Mode (ALLM), which reduced or eliminates lag and frame tearing to offer a smoother, lag-free gaming experience.

**Works with Amazon Alexa**

Control the AVR-S960H hands-free with Amazon Alexa and your voice. Adjust the volume, skip to the next track, switch inputs for your different media players and more – “Just Ask.” Download the free HEOS Home Entertainment Skill to enable Amazon Alexa voice commands for your AVR-S960H. Requires Alexa app and Amazon Echo, Dot or equivalent.

**Works with Google Assistant**

Ask your Google Assistant speaker or phone to stream your favorite songs. Control volume, play, pause, skip tracks and more.

**Apple AirPlay 2 Built-in**

Use AirPlay 2 to stream Apple music wirelessly to the AV receiver, or group with other AirPlay compatible speakers to fill your home with music.

**HEOS® Built-in Multi-Room Streaming**

Enjoy your favorite music in any room of your home wirelessly with HEOS® Built-in technology. Play the same song in every room or select a different song for each connected room – the choice is yours. HEOS® also works with Amazon Alexa, Google Assistant, Apple Siri and Josh.ai to provide cutting-edge voice control and incredible sound for all your home entertainment. Connect your Denon Home speakers for a whole-home audio experience. HEOS® supports free and premium Spotify, Pandora, Amazon Music HD, Tunes, SoundCloud, SiriusXM, TIDAL and more.

**Built-in Bluetooth and Wi-Fi Capability**

With Bluetooth and Wi-Fi wireless streaming connectivity, the Denon AVR-S960H is equipped with an advanced dual antenna transceiver system for robust streaming even in congested urban environments. Enjoy listening to your favorite audio content wirelessly from your smart devices.

**All Zone TV Audio**

Play the audio from your TV to all zones. Enjoy full discrete audio such as Dolby Atmos in the main zone for a totally immersed experience while playing the same source in the second zone. Select “Source” for the second zone to share the main zone audio. The AVR-S960H supports both HDMI and digital sources for your second zone.

**High-Resolution Audio Support**

Enjoy superb audio fidelity with your favorite high-resolution audio tracks. The AVR-S960H with AKM 32-bit D/A converters features high-resolution audio decoding with multiple lossless file types, including ALAC, FLAC and WAV at up to 192kHz/24bit. It is also compatible with 2.8/5.6-MHz DSD files (DSD is the audio coding format of SACD). Play them from memory devices via the front panel USB, or over network sources. The AVR-S960H also supports other file types such as MP3 and WMA to consistently give an exceptional listening experience.

**Bluetooth Audio Transmission**

Enjoy your favorite audio without waking your whole home by transmitting the audio coming from your AV receiver to your Bluetooth headphones. The AVR-S960H even allows you to play the audio on both Bluetooth headphones and connected speakers simultaneously. If you have a family member or a friend who is hearing impaired, we recommend this setup.

**Audyssey Suite of EQ Calibration Technology**

Professional home theater audio tuning at your fingertips. The latest Denon audio/video products use the Audyssey suite of EQ software for simple, accurate set-up and calibration. With the supplied 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.

**Amazing Sound Built on 110-Years of Innovation**

As Japan’s first audio electronics manufacturer with a deep legacy of firsts – Denon is the defining audio company of Japan. Founded in 1910, we enable the moments that matter through the relentless pursuit of quality, innovation and audio performance. We innovate for a better experience.

Technical Information		
Number of Power Amps	7	
Power Output	185 watts per channel (6 ohms, 1 kHz, THD: 10%, 1 ch. driven)	
	145 watts per channel (6 ohms, 1 kHz, THD: 1%, 1 ch. driven)	
	125 watts per channel (6 ohms, 1 kHz, THD: 0.7%, 2 ch. drive)	
	90 watts per channel (8 ohms, 20 Hz-20 kHz, THD: 0.08%, 2 ch. 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)	
UPC	AVRS960HBEK3	883795005081 Black
FM Section		
Tuning Frequency Range	87.5 MHz-107.9 MHz	
AM Section		
Tuning Frequency Range	520 kHz-1710 kHz	
General		
Power Supply	120V / 60Hz	
Power Consumption	500W (Standby 0.1 W, CEC standby 0.5W)	
Power Consumption (No Sound)	35W (ECO Mode On) 70W (ECO Mode Off)	
Maximum Dimensions (WxDxH)	17.1 x 6.6 x 13.4	
Antenna: Horizontal (in)	17.1 x 9.3 x 13.4	
Antenna: Vertical (in)	17.1 x 6.6 x 13.0	
Carton Dimensions (Packaging) (WxDxH) (in)	20.5 x 9.6 x 16.9	
Weight in LBS	21 lbs	
Weight in LBS (Packaging)	25.4 lbs	

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Ports		
In	HDMI	x6
	8K HDMI	x1
	Component (Video)	x2
	Composite (Video)	x2
	Phono	x1
	Analog Audio	x4
	Digital Coaxial	x1
	Digital Optical	x2
	USB Front	x1
Out	HDMI Monitor (eARC)	x2
	8K HDMI	x2
	Component (Video)	x1
	Composite Monitor	x1
	Audio Pre-out (SW)	0.2 ch
	Zone 2 (pre-out and speaker assignable)	x1
	Headphones	x1
Other	Ethernet	x1
	Microphone Port	x1
	FM/AM Tuner Antenna	x1

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