

Denon AVR-X8500HA

Denon AVR-X8500HA 13.2 Channel 8K AV Receiver Instruction Manual

Model: AVR-X8500HA

1. INTRODUCTION AND OVERVIEW

The Denon AVR-X8500HA is a high-performance 13.2 channel 8K UHD AV receiver designed to deliver an immersive home theater experience. It supports advanced audio formats such as Dolby Atmos, DTS:X, DTS:X Pro, IMAX Enhanced, and Auro-3D. This receiver also features HEOS Built-in for multi-room music streaming and integrates with voice control systems like Amazon Alexa. Video capabilities include 8K/60Hz and 4K/120Hz pass-through, along with support for various HDR formats including HDR10, HDR10+, Dolby Vision, HLG, and Dynamic HDR.



Figure 1.1: Front view of the Denon AVR-X8500HA AV Receiver.

1.1 What's in the Box

- Denon AVR-X8500HA AV Receiver

- Quick Start Guide
- Remote Controller (RC-1221)
- Power Cord
- Audyssey Setup Microphone
- FM/AM Antennas
- Wireless Antennas (for Wi-Fi/Bluetooth)

2. SETUP

2.1 Placement

Place the receiver on a stable, level surface with adequate ventilation. Ensure there is sufficient space around the unit for heat dissipation. Avoid placing it in direct sunlight or near heat sources.

2.2 Connecting Speakers

Connect your speakers to the appropriate terminals on the rear panel. The AVR-X8500HA supports up to 13.2 channels. Ensure correct polarity (+ to + and - to -) for all speaker connections. Refer to the speaker configuration diagrams in the Quick Start Guide for optimal setup based on your speaker layout (e.g., 7.1.6, 9.1.4).

2.3 Connecting Audio/Video Devices

Connect your source devices (e.g., Blu-ray player, game console, streaming device) to the HDMI input ports. Use high-quality HDMI cables, especially for 8K/4K 120Hz signals. The receiver features a dedicated 8K input and supports HDMI 2.1 features. Analog and digital audio inputs are also available for other components.



Figure 2.1: Rear panel connections of the Denon AVR-X8500HA.

2.4 Network Connection

Connect the receiver to your home network via an Ethernet cable or Wi-Fi. This enables HEOS multi-room audio, firmware updates, and control via the HEOS app. Attach the included wireless antennas for Wi-Fi and Bluetooth functionality.

2.5 Initial Setup Assistant and Audyssey Calibration

Upon first power-on, the on-screen Setup Assistant will guide you through speaker connections, network

setup, and input assignments. Use the supplied Audyssey MultEQ XT32 microphone to perform room acoustic calibration. This process optimizes the sound for your specific listening environment, ensuring balanced audio performance.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation

- **Power On/Off:** Press the POWER button on the front panel or remote control.
- **Input Selection:** Use the SOURCE SELECT knob on the front panel or the input buttons on the remote to choose your desired audio/video source.
- **Volume Control:** Adjust the MASTER VOLUME knob on the front panel or the VOLUME +/- buttons on the remote.

3.2 Sound Modes and Audio Formats

The AVR-X8500HA automatically detects and decodes various audio formats. You can manually select different sound modes (e.g., Dolby Atmos, DTS:X, Stereo, Multi-Channel Stereo) using the 'MOVIE', 'MUSIC', or 'GAME' buttons on the remote, or through the on-screen menu. The receiver supports advanced 3D audio formats for an immersive experience.

3.3 HEOS Multi-Room Streaming

Utilize the built-in HEOS technology to stream music wirelessly from services like Spotify, Amazon Music HD, Pandora, and TIDAL. Download the HEOS app to your smartphone or tablet to control music playback across multiple HEOS-enabled devices in your home.

3.4 Voice Control

The receiver is compatible with Amazon Alexa. Enable the Denon HEOS skill in the Alexa app to control functions such as volume, input selection, and music playback using voice commands. Ensure your receiver is connected to the network for this feature.

3.5 Remote Control

The included remote control (RC-1221) provides comprehensive control over all receiver functions. Familiarize yourself with the button layout for easy navigation and operation.



Figure 3.1: Denon AVR-X8500HA Remote Control (RC-1221).

4. MAINTENANCE

4.1 Cleaning

To clean the receiver, wipe the exterior surfaces with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents. Ensure the unit is powered off and unplugged before cleaning.

4.2 Firmware Updates

Periodically check for firmware updates to ensure optimal performance and access to new features. Updates can typically be performed via the network connection through the receiver's setup menu.

5. TROUBLESHOOTING

If you encounter issues with your Denon AVR-X8500HA, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cord is securely connected to both the receiver and a working power outlet. Check the power switch on the rear panel if available.
- **No Sound:** Verify speaker connections, input source selection, and volume level. Check if the MUTE function is active. Ensure audio output settings on your source device are correct.
- **No Video:** Confirm HDMI cable connections between the source, receiver, and TV. Check input selection on both the receiver and TV. Ensure video output settings on your source device are compatible.
- **Network Connection Issues:** Restart your router and modem. Re-run the network setup assistant on the receiver. Ensure Wi-Fi antennas are properly attached.

- **Remote Control Not Working:** Check the batteries in the remote control. Ensure there are no obstructions between the remote and the receiver's IR sensor.

For more detailed troubleshooting or persistent issues, consult the full online user manual available on the Denon website or contact Denon customer support.

6. SPECIFICATIONS

Key technical specifications for the Denon AVR-X8500HA:

- **Channels:** 13.2
- **Power Output:** 150 W per channel (8 ohms, 20 Hz - 20 kHz, 0.05% THD, 2-ch driven)
- **HDMI Inputs:** 8 (including 1 dedicated 8K input)
- **HDMI Outputs:** 3
- **Video Support:** 8K/60Hz, 4K/120Hz pass-through and upscaling, HDR10, HDR10+, Dolby Vision, HLG, Dynamic HDR, VRR, ALLM
- **Audio Formats:** Dolby Atmos, DTS:X, DTS:X Pro, IMAX Enhanced, Auro-3D
- **Wireless Connectivity:** Wi-Fi, Bluetooth, HEOS Built-in
- **Room Correction:** Audyssey MultEQ XT32, Dynamic EQ, Dynamic Volume, LFC
- **Dimensions (W x D x H):** 17.1 x 18.6 x 7.7 inches (434 x 472 x 195 mm)
- **Weight:** 51.4 pounds (23.3 kg)

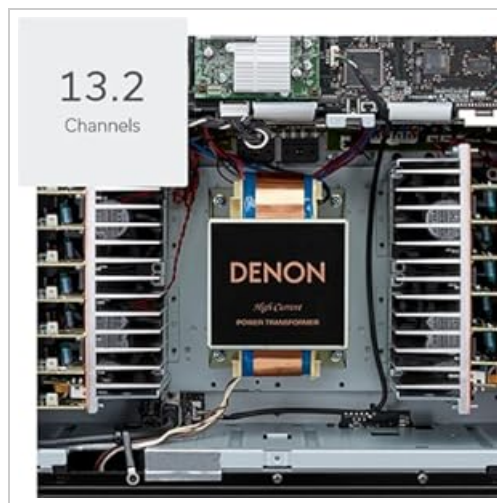


Figure 6.1: Internal view showing 13.2 channel architecture.



Figure 6.2: Receiver display showing 8K video capability.



Figure 6.3: HDMI input ports with 8K support.

7. WARRANTY AND SUPPORT

7.1 Product Warranty

Denon products are covered by a limited warranty. The specific terms and duration of the warranty may vary by region and product. Please refer to the warranty card included with your product or visit the official Denon website for detailed warranty information.

7.2 Customer Support

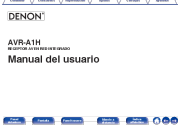
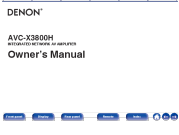
For technical assistance, product inquiries, or service requests, please visit the official Denon support website. You can find FAQs, downloadable manuals, and contact information for customer service representatives.

8. OFFICIAL PRODUCT VIDEOS

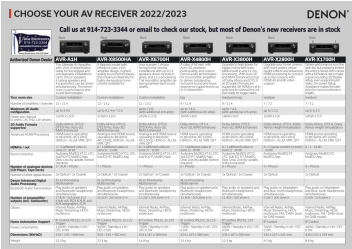
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Related Documents - AVR-X8500HA

	Denon AVC-X4800H 9.4 Channel 8K AV Amplifier: Immersive 3D Audio & Advanced Home Theatre Discover the Denon AVC-X4800H, a powerful 9.4 channel 8K AV Amplifier delivering breathtaking 3D audio with Dolby Atmos, DTS:X, IMAX Enhanced, and Auro-3D. Features advanced connectivity, HEOS Built-In wireless streaming, and Audyssey room correction for an ultimate home theatre experience.
	Denon AVR-X3800H Owner's Manual: Setup, Features, and Operation Guide Comprehensive owner's manual for the Denon AVR-X3800H Integrated Network AV Receiver. Learn about setup, connections, audio/video features, network capabilities, and troubleshooting for your home theater system.

	Denon AVR-X1800H 7.2 Channel 8K AV Receiver with HEOS Built-in Explore the Denon AVR-X1800H, a 7.2 channel 8K AV receiver delivering immersive 8K video and Dolby Atmos/DTS:X 3D audio. Features HEOS built-in for wireless streaming, advanced HDMI connectivity, and Audyssey room correction.
	Denon AVC-A10H: 13.4-Channel 8K AV Amplifier with HEOS Built-in Explore the Denon AVC-A10H, a premium 13.4-channel 8K AV amplifier featuring 150W per channel, HEOS wireless multi-room audio, Dolby Atmos, DTS:X Pro, IMAX Enhanced, and advanced room correction technologies for an unparalleled home theater experience.
	Manual del Usuario Denon AVR-A1H: Receptor AV en Red Integrado Guía completa para el usuario del receptor AV en red integrado Denon AVR-A1H. Aprenda sobre conexiones, reproducción, ajustes, consejos y resolución de problemas para su sistema de cine en casa.
	Denon AVC-X3800H Integrated Network AV Amplifier Owner's Manual Comprehensive owner's manual for the Denon AVC-X3800H Integrated Network AV Amplifier, detailing setup, connections, playback features, audio/video settings, and troubleshooting for an optimal home theater experience.

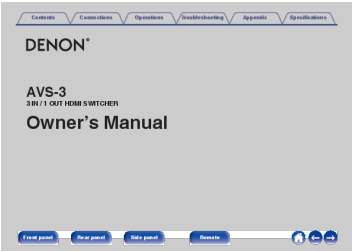
Documents - Denon – AVR-X8500HA



[Denon AV Receiver Comparison Guide 2022-2023](#)

A comprehensive comparison of Denon's 2022-2023 AV receiver lineup, detailing specifications, features, and supported audio/video technologies for models AVR-A1H, AVR-X8500HA, AVR-X6700H, AVR-X4800H, AVR-X3800H, AVR-X2800H, and AVR-X1700H.

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Owner s Manual Denon® 13 2 Channel Home Theater Receiver AVR X8500HA Audio Etc Dayton OH

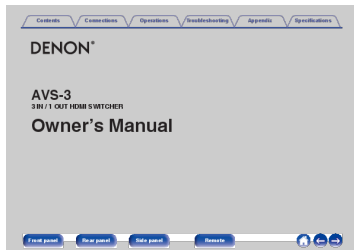
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Contents Connections Playback Settings . Tips Appendix **AVR-X8500HA**

INTEGRATED NETWORK AV RECEIVER Owner s Manual Front panel Display Rear panel 1 Remote Index Contents Connections Playback Settings Tips Appendix

Accessories 9 Inserting the batteries 10 Operating range of the...

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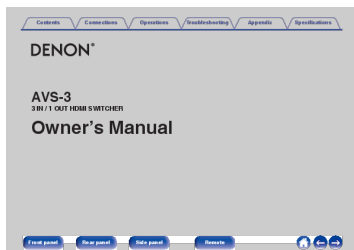
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AVS 3 manuals denon Owner s Manual Denon Inserting the batteries 1 Insert a coin or other item into slot

on battery cover turn counterclockwise and remove Coin etc Battery 2 Confirm that direction of is correct

then insert CR2032 Remote control unit RC 1247 Cautions Using Batteries You can use remote for your

AV receiver After reading this manual be sure to keep it future reference Confirming accessories Check

following parts are supplied with product AC adapter plugs 5 types Power supply cable USB type approx

4 10 m HDMI 40 Gbps Mounting screws pieces AVS3 ALL EN avs3 all en filename |||

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Seamlessly Upgrade to Next-Gen 8K Performance

HDMI 8K Upgrade Kit AVR-X8500H

Your Denon AVR-X8500H delivers the most cutting-edge home theater audio technology to date. You can now easily upgrade it to the latest in HDMI specifications and experience 8K/60Hz or 4K/120Hz picture quality, enhanced gaming capabilities, and the latest in features and content. Just follow the steps below—and be ready to be blown away by your 8K upgrade.

- 1 Purchase** your 8K HDMI upgrade on our website.
- 2 Within a few days, you'll receive a box** for shipping your AVR-X8500H to our service center.
- 3 Securely pack** and ship your receiver using the box and its shipping label.

Within 72 hours of receiving your package, our audio partners at United Radio will **upgrade your receiver** and ship it back to you.

Look for the "A" sticker that confirms your upgrade, showing your AVR is ready for ultra-HD 8K content.

Enjoy premium movie and gaming experiences with the detailed sound that defines Denon.

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Value Electronics - Authorized Denon Dealer

DENON X-Series

Model	Channels	Power	Price
AVR-X8500H	15.4ch	100W	\$1,999.99
AVR-X8300H	11.2ch	100W	\$1,499.99
AVR-X8200H	9.2ch	100W	\$1,299.99
AVR-X8100H	7.2ch	100W	\$999.99
AVR-X7700H	7.2ch	100W	\$899.99
AVR-X7500H	7.2ch	100W	\$799.99
AVR-X7300H	7.2ch	100W	\$699.99
AVR-X7100H	7.2ch	100W	\$599.99
AVR-X6700H	7.2ch	100W	\$499.99
AVR-X6300H	7.2ch	100W	\$399.99
AVR-X6100H	7.2ch	100W	\$299.99

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- 1 Purchase** your 8K HDMI upgrade on our website.
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- 3 Securely pack** and ship your receiver using the box and its shipping label.

Within 72 hours of receiving your package, our audio partners at United Radio will **upgrade your receiver** and ship it back to you.

Look for the "A" sticker that confirms your upgrade, showing your AVR is ready for ultra-HD 8K content.

Enjoy premium movie and gaming experiences with the detailed sound that defines Denon.

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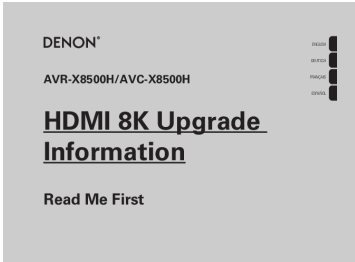


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[Denon AVR-X8500H/AVC-X8500H HDMI 8K Upgrade Information](#)

This document provides detailed information and important notes regarding the HDMI 8K upgrade service for Denon AVR-X8500H and AVC-X8500H receivers. It covers upgraded features, post-upgrade settings, and packing instructions for the upgrade process.

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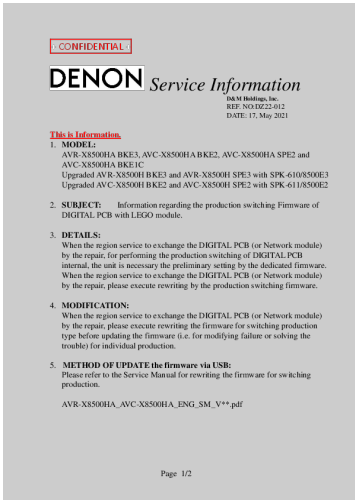


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[Denon AVR-X8500HA/AVC-X8500HA Service Information: Firmware Update for DIGITAL PCB](#)

D&M Holdings Inc. service bulletin detailing firmware update procedures for Denon AVR-X8500HA and AVC-X8500HA models, focusing on DIGITAL PCB production switching.

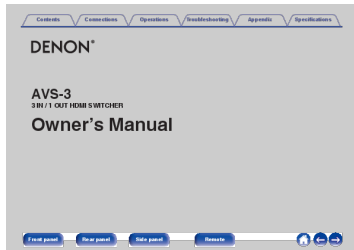
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