

# DENON®

PRODUCT INFORMATION



## DENON AVR-S650H

5.2 CH. HIGH-POWER 4K AV RECEIVER WITH VOICE CONTROL

## MODERN ENTERTAINMENT

The new Denon AVR-S650H offers state-of-the-art picture and sound technologies for exceptional home entertainment every day. Thanks to full 4K support including Dolby Vision and HDR, the AVR-S650H is fully compatible with the latest 4K screens and source devices. With HEOS wireless technology built-in, you can listen to Spotify, TIDAL, Internet radio and more in renowned Denon sound quality. Thanks to the award-winning Denon Setup Wizard and the comfortable HEOS App, the AVR-S650H is just as easy to set up as to enjoy. Works with Apple AirPlay 2, Amazon Alexa and Google Assistant for seamless voice control too.

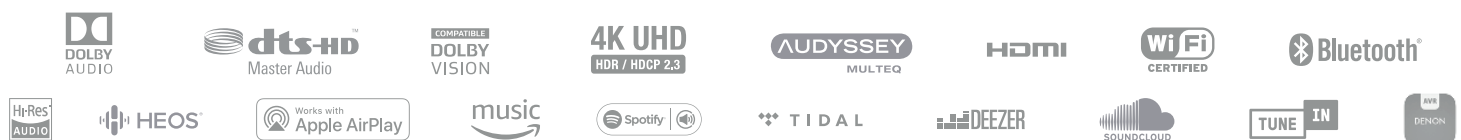
### HIGHLIGHTS

- High-performance discrete 5-channel amplifier
- Supports surround sound formats Dolby TrueHD and DTS-HD Master Audio
- Five HDMI inputs and one output with full HDCP 2.3 and eARC
- The latest picture/video technology available
- Award-winning Denon guided Setup Assistant
- Compatibility with major voice agents
- Includes HEOS built-in

### YOUR BENEFITS

- Delivers maximum performance and 135 watts of power per channel
- Enjoy the enveloping sound you know from real cinemas
- Connect up to five of your favourite media devices with full 4K support, 4:4:4 colour resolution and BT.2020
- 4K Ultra HD/60 Hz full-rate pass through, HDR10, Dolby Vision compatibility and Hybrid Log-Gamma (HLG)
- On-screen assistant ensures an easy and intuitive setup experience
- Works with Amazon Alexa, Google Assistant or Apple Siri for hands-free control of your music
- Wireless multi-room and endless music streaming from services as Spotify, Amazon Music, Deezer, Tidal, TuneIn and more

### DENON 100+ YEARS "LEGACY OF FIRSTS" IN AUDIO TECHNOLOGY



[www.denon.com](http://www.denon.com)

### High-Performance Discrete 5-Channel Amplifier

Featuring discrete high-current power amplifiers on all channels, the AVR-S650H delivers maximum performance and 135 watts of power per channel. 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.

### Advanced HDMI Video Section with eARC Support

Enjoy your favourite movies, shows and games with the best picture quality available. The AVR-S650H features five HDMI inputs that support full 4K Ultra HD, HDR10 (High Dynamic Range), BT.2020, Wide Colour Gamut and 4:4:4 Pure Colour sub-sampling. Dolby Vision compatibility and HLG (Hybrid Log-Gamma) provide exceptional brightness, contrast and colour. HDCP 2.3 processing is available on all HDMI ports. Enhanced Audio Return Channel (eARC) support enables transmission of HD audio directly from the TV to the AV receiver through the connected HDMI cable.

### Built-in Bluetooth and Wi-Fi Connectivity

With Bluetooth and Wi-Fi wireless streaming connectivity, the Denon AVR-S650H is equipped with an advanced dual antenna transceiver system for robust streaming even in congested urban environments. Enjoy listening to your favourite audio content wirelessly from your smart devices.

### Audyssey Suite of EQ Calibration Technology

Professional home theatre 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 theatre, and tunes the AV receiver to provide the smoothest, most optimal overall listening experience for your room. Audyssey Dynamic Volume and Audyssey Dynamic EQ smooth out startling jumps in volume (such as TV commercials), letting you listen at lower levels and still enjoy clear dialogue, music, sound effects and precise tonal tailoring.

For the enthusiast, the Audyssey MultEQ Editor app lets you view speaker detection data to check the before-and-after results of the Audyssey calibration, making it easy to optimise individual room acoustics to personal taste.

### 100+ Years of Firsts in Audio Technology

Founded in 1910, Denon has a deep heritage of "firsts" in audio technology – from Japan's first audio electronics manufacturer, to producing the world's first commercial CDs. This focused investment in audio R&D ensures you get the latest technology and highest quality with every listening experience.

### Works with Amazon Alexa

Control the AV receiver 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-S650H. Requires Alexa app and Amazon Echo, Dot or equivalent. Also works with Google Assistant and Siri providing cutting-edge voice control and incredible sound for all of your home entertainment.

### HEOS Multi-room Streaming

Enjoy your favourite music in any room of your home wirelessly with built-in HEOS technology. Play the same song in every room, or select a different song for each connected room – the choice is yours.

### Easy Setup Experience

The included AVR-S650H Quick Start Guide provides simple, clear instructions on how to get started. Once you connect your TV to the AVR-S650H via HDMI, the exclusive Denon Setup Assistant appears on your TV screen to walk you through setup, step by step. The AVR-S650H automatically renames input source per HDMI info, and quick select offers one-push buttons for all zones. Colour-coded speaker connections are laid out horizontally, making organising and connecting speaker wires simple.

### Smart TV Connectivity

Control the Denon AVR-S650H with your Smart TV remote via the HDMI CEC functionality associated with your Smart TV. Simply set "HDMI Control" to ON in your receiver, then set "Smart Menu" to ON and begin controlling the AVR-S650H with your TV remote. The Smart Menu home screen provides you quick access to source and surround mode selections, the AV receiver setup menu and four Smart Selects.

### Quick Selects for User-Friendly Audio Tuning

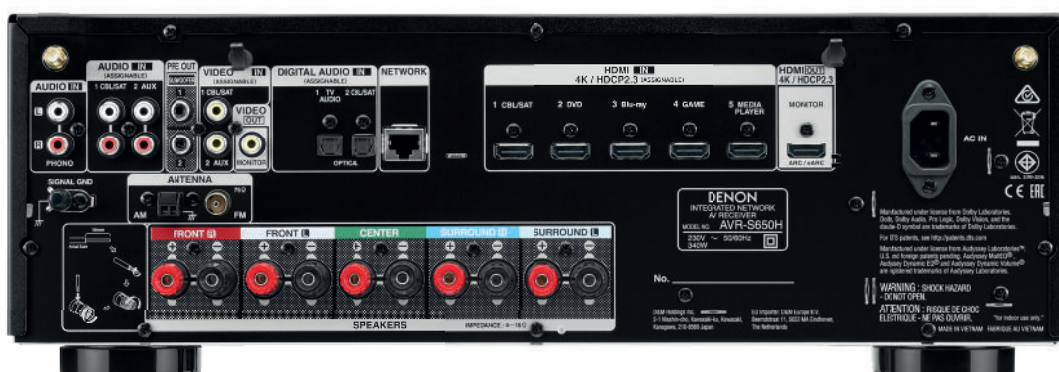
The Denon AVR-S650H front panel features four Quick Select buttons that store your preferred audio settings for each source. Switch between TV audio, Blu-ray, media players and more, and the AVR-S650H adjusts the EQ settings to your preferences for that media source. Use the buttons on the front panel or opt for the same Quick Selects on the AV receiver remote control for faster control. Now allows for one-push all zone stereo mode via Quick Select.

### Denon AVR Remote App for Seamless Control

Better control in your back pocket. The free Denon AVR Remote app for iOS and Android makes using the AVR-S650H even easier – adjust volume, turn it on or off, mute the music, select a source or switch to the HEOS app for wireless music streaming. Download the Denon AVR Remote app to your smartphone today. Available for iOS and Android.

### Front USB Port for High-Resolution Audio

Discover the incredible fidelity of high-resolution audio tracks with the ability to decode up to 24-bit/192-kHz ALAC, FLAC and WAV lossless files as well as DSD 2.8MHz and 5.6MHz tracks (the audiophile format of SACD) via the front panel USB port and network sources. Or, listen to other popular file types such as MP3. Whether you want to listen to your latest download or soak in the fidelity of audiophile-quality FLAC recordings, you have quick access to your favourite songs.



Technical information	
Number of Power Amps	5
Power output	135 watts per channel (6 ohms, 1 kHz, THD 1%, 1 ch driven) 100 watts per channel (6 ohms, 1 kHz, THD 0.7%, 2 ch driven) 75 watts per channel (8 ohms, 20hz-20kHz, THD 0.08%, 2 ch driven)
Speaker Impedance	4 - 16Ω/ohms
<b>Preamplifier Section</b>	
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)
<b>FM Section</b>	
Tuning frequency range	87.5 - 108 MHz
<b>AM Section</b>	
Tuning frequency range	520 kHz – 1710 kHz
<b>General</b>	
Power supply	AC 230 V, 50 Hz
Power consumption	340 W (Standby 0.1 W, CEC standby 0.5W)
Power consumption No-sound	29 W(ECO Mode On) 39 W(ECO Mode Off)
Dimensions (W x H x D)	434 x 151 x 339 mm
Dimensions (packed)	523 x 232 x 435 mm
Weight	7.8kg
Weight (packed)	9.7kg

Ports		
<b>IN</b>	HDMI	x 5
	Composite (video)	x 2
	Phono	x 1
	Analogue Audio	x 2
	Digital Optical	x 2
	USB (front)	x 1
<b>OUT</b>	HDMI Monitor	x 1
	Composite (video)	x 1
	Audio Pre-out (SW)	x 2
	Phones	x 1

EAN	AVRS650HBKE2	4951035069684	Black
	AVRS650HBKE2GB	4951035070017	Black

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\* All specs can be subject to change