

AVENTAGE Network AV Receiver with Dolby Atmos® compatibility for genuine 3D surround sound in your own home. Also featuring High Resolution audio playback support, 4K Ultra HD full support, Wi-Fi and *Bluetooth*® Built-in, and audiophile design for detailed audio reproduction.



Hidden Control Panel Includes HDMI Input Terminal, USB Port, Video Aux Input Terminals, YPAO Optimised Microphone Jack, And More.



## Audio Features

- 7-channel powerful surround sound  
100W per Channel (8 ohms, 20 Hz-20 kHz, 0.06% THD, 2 ch driven)  
160W per Channel (4 ohms, 1 kHz, 0.9% THD, 1 ch driven [European Model])  
160W per Channel (8 ohms, 1 kHz, 10% THD, 1 ch driven)
- Dolby Atmos® support
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce Vibration
- Aluminium Front Panel Offers Visual and Aural Benefits
- Selected high quality parts to achieve optimum audio performance
- Pure Direct for pure HiFi sound quality enjoyment
- Latest Burr Brown DirectPath™ DA Converters
- New high quality Volume IC and Independent Pure Power Supply
- Low jitter PLL circuitry helps optimise sound imaging
- Assignable amplifiers for front speaker bi-amp connection
- Detachable Power Cable for easier installation (also allows cable upgrade)
- Intelligent assignable amplifiers for Surround Back <-> Front Presence or Zone 2
- DSD 2.8MHz/5.6MHz audio playback
- FLAC or WAV 192kHz/24-bit audio playback
- Apple Lossless audio playback
- Compressed Music Enhancer for *Bluetooth*
- Phono input for vinyl playback

## Video Features

- 4K60p 4:4:4 Pass through
- 4K video upscaling from analogue and HDMI input
- HDMI: 8 (1 on front) and 2 output with HDCP2.2 (3 in/2 out), 3D and Audio Return Channel
- Supports Deep Colour (30/36 bit), x.v.Colour, 24 Hz Refresh Rate and Auto Lip-Sync compensation
- High quality video processing with precise deinterlacing
  - Motion adaptive and edge adaptive deinterlacing
  - Multi-cadence (incl. 3-2 pull-down) detection

## Advanced Features

- *Bluetooth* for wireless music streaming (SBC/AAC)
- Network functions
  - Wi-Fi Built-in (802.11b/g/n)
  - Easy Wi-Fi setup i.e. iOS Wi-Fi settings sharing, WPS etc.
  - AirPlay® allows music streaming from Mac, PC, iPod, iPhone, iPad
  - AV Controller app for operating various functions from iOS or Android smartphones and tablets
  - Access to: Internet Radio (vTuner): MP3, WMA
- Streaming Services (Napster®, Spotify®, Pandora®, JUKE®) \*Music service availability varies by region.
- Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC, Apple Lossless, AIFF, DSD
- DLNA 1.5 certified
- Gapless playback compatibility allows play without interruption

- Front panel USB Digital Connection for iPod and iPhone
- Advanced multi-language GUI on-screen display with HD Font
- HDMI CEC with versatile control from AV Receiver remote control
- YPAO R.S.C. (Reflected Sound Control) sound optimisation with multi-point measurement
- HDMI front panel input for devices such as camcorders and digital cameras
- Ability to change HDMI input while in Standby Through mode
- Background Video feature (for Radio/USB/*Bluetooth*/AUDIO/NET/AUX input)
- SCENE buttons with direct power on (BD/DVD, TV, Net and Radio)
  - Quick and simple to use
  - HDMI CEC powers up compatible TVs and Blu-ray Disc™ players

## Surround Realism

- HD Audio decoding with CINEMA DSP 3D (17 DSP programmes)
- Compressed Music Enhancer with CINEMA DSP
- Dialogue Lift ensures that dialogue comes from the centre of the screen
- Dialogue Level Adjustment for proper sound balance with dialogue and vocals
- Virtual Presence Speaker function for CINEMA DSP 3D surround without Front Presence Speakers
- Virtual CINEMA FRONT provides virtual surround sound with 5 speakers in front
- Virtual Surround Back Speaker for playing 7.1-channel content with a 5.1-channel system
- YPAO Volume to ensure natural sounds even at low volume
- Extra Bass enriches the powerful bass sound even with small speakers
- SILENT CINEMA to enjoy surround sound with headphones

## Versatile Zone Control

- HDMI Zone B for audio/video streaming to another room (same content as main room)
- Versatile Zone 2 Control i.e. Power/Volume/Control by App
- Party mode
- Remote input/output
- Programmable +12V trigger output

## Eco-Friendly Design

- ECO mode operation for about 20%\* less power consumption  
\*Compared to power consumption when ECO mode is off (Yamaha measurement)
- Low standby power consumption of 0.1W
- Auto power standby function with variable time setting
- Improved Network and HDMI Standby Power Consumption



The RX-A850 offered with black and titanium finish available in some areas.

### Support for the Latest Surround Format, Dolby Atmos®

With Dolby Atmos, sound comes alive from all directions, including overhead. Advanced sound processing and time correction greatly improve the sound realism of moving objects, as well as providing a realistic sense of height and direction of motion. The combination of Dolby Atmos and RX-A850 will fill the room with multi-dimensional sound to make you feel as if you are right in the middle of the story unfolding on the screen.



### Wireless Audio Streaming and Hi-Res Audio

Bluetooth support gives you the convenience of wireless music playback, while Wi-Fi Built-in improves installation flexibility. These two features provide easy access to countless music sources. In addition, compatibility with FLAC/WAV/AIFF 192kHz/24bit, Apple Lossless and DSD 2.8MHz/5.6MHz formats means that you can easily play high resolution audio from a networked NAS, PC or USB.



### 4K Ultra HD Full Support with 4K60p, HDCP2.2

This unit completely supports with the latest HDMI standards. It can perform 4K Ultra HD upscaling to boost a lower resolution image and supports 4:4:4 video signal for more vibrant and lifelike images, so you can fully enjoy the high definition video quality of 4K. It also adheres to the HDCP2.2 copyright protection standard for 4K video transmission. Multiple HDCP2.2 compliant inputs and outputs design (3 in / 2 out) is ready for future system expansion.

#### 4K Ultra HD FULL SUPPORT

- 4K Video at 60 Frames per second support (4:4:4)
- HDCP 2.2 Input / Output
- 4K Upscale



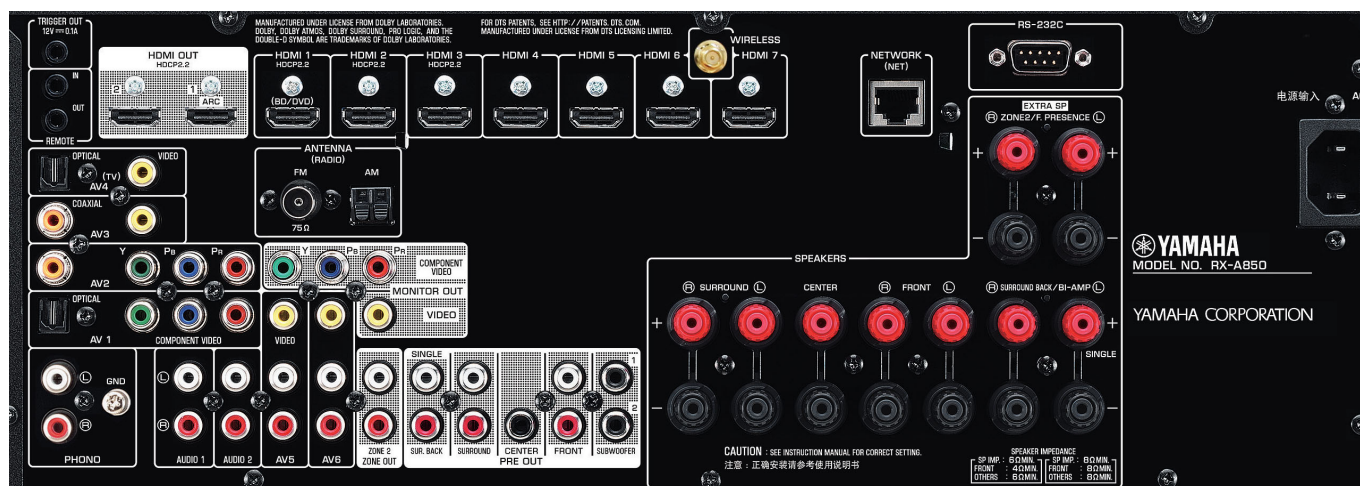
### Main Specifications

#### Audio Section

Rated Output Power (8 ohms, 20 Hz-20 kHz, 0.06% THD, 2 ch driven)	
Front L/R	100 W + 100 W
Rated Output Power (4 ohms, 1 kHz, 0.9% THD, 1 ch driven [European Model])	
Front L/R	160 W + 160 W
Maximum Effective Output Power (8 ohms, 1 kHz, 10% THD, 1 ch driven)	
Front L/R	160 W + 160 W
Centre	160 W
Surround L/R	160 W + 160 W
Surround Back L/R	160 W + 160 W
Dynamic Power/Ch (Front L/R, 8/6/4/2 ohms)	
	130/170/195/240 W

#### General

Standby Power Consumption	
HDMI Control off, Standby Through off	0.1 W
HDMI Standby Through on	1.3 W
Network Standby on	2.4 W (wired)
Dimensions (W x H x D)	
	435 x 171 x 382 mm
	(with antenna up: 435 x 234 x 382 mm)
	17-1/8" x 6-3/4" x 15"
	(with antenna up: 17-1/8" x 9-1/4" x 15")
Weight	
	10.6 kg; 23.4 lbs.



European Model

### Extensive Connections

Inputs		Outputs		Others	
HDMI*1 (Audio Input Assignable*2, HDMI1,2,3:HDCP2.2 compatible)	8	HDMI (HDCP2.2 compatible)	2 (simultaneous)	Zone 2 Audio Out	1
Network (Ethernet / Wi-Fi)	1 / 1	Component Video Monitor	1	Remote In/Out	1 / 1
USB*1	1	Composite Monitor	1	+12V/0.1A Trigger Out	1
Radio Antenna*3 (FM / AM)	1 / 1	Pre Out	7.2ch	RS-232C	1
Optical Digital	2	Speaker*4/5/6	7ch / 9 ter	Terminal for Detachable Power Cable	1
Coaxial Digital	2	Subwoofer	2 x mono		
Analogue Audio*1 (with Phono)	6	Headphone Jack	1		
Component Video (Audio Input Assignable)	2				
Composite Video*1	5				

\*1 Including front panel terminals.

\*2 Front HDMI input is not assignable.

\*3 The shape of the FM antenna terminal varies according to area.

\*4 Assignable for surround back L/R to bi-amp (front L/R).

\*5 Extra speaker terminals are assignable to Zone 2 or Presence.

\*6 Banana-plug compatible speaker terminals are available in some areas.

• "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. AirPlay®, iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. • The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Yamaha Corporation is under license. Other trademarks and trade names are those of their respective owners. • Spotify and Spotify logo are registered trademarks of the Spotify Group. • Napster and the Napster logo are trademarks and registered trademarks of Rhapsody International. • Pandora and Pandora Internet Radio logo are registered trademarks or trademarks of Pandora Media, Inc. in the United States and/or other countries. • Juke and Juke logo are registered trademarks of Media-Saturn-Holding GmbH. • The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance. The Wi-Fi Protected Setup Identifier Mark is a mark of the Wi-Fi Alliance. • DLNA® and DLNA CERTIFIED™ are trademarks or registered trademarks of Digital Living Network Alliance. All rights reserved. Unauthorized use is strictly prohibited. • Dolby, Dolby Atmos, Dolby Audio, Feel Every Dimension, Dolby Digital Plus, Dolby TrueHD, and the double-D symbol are trademarks of Dolby Laboratories. • For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, DTS-HD, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS-HD Master Audio is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved. • HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. • Burr-Brown products are trademarks of Texas Instruments, Inc. • "x.v.Colour" is a trademark of Sony Corporation. • CINEMA DSP is a trademark of Yamaha Corporation. • SILENT CINEMA is a trademark of Yamaha Corporation. • Product designs and specifications are subject to change without notice.