

7.2-channel Wi-Fi built in AVENTAGE network AV receiver focused on superior audio and video quality and featuring the latest HDMI® version with 4K 50/60p support. Airplay®, YPAO Volume, CINEMA DSP 3D, and Anti-Resonance Technology included.



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

### Audio Features

- 7-channel powerful surround sound  
110W per Channel (8 ohms, 1 kHz, 0.9% THD, 2 ch driven)  
100W per Channel (8 ohms, 20 Hz-20 kHz, 0.09% THD, 2 ch driven)
- HD Audio format decoding: Dolby TrueHD and DTS-HD Master Audio
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce Vibration
- Aluminum Front Panel Offers Visual and Aural Benefits
- Selected high quality parts to achieve optimum audio performance
- Pure Direct for pure HiFi sound quality enjoyment
- Burr-Brown 192 kHz/24-bit DACs for all channels
- Low jitter PLL circuitry helps optimize 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
- FLAC or WAV 192kHz/24-bit audio playback
- Apple Lossless audio playback

### Video Features

- The latest HDMI version support for 4K 50/60p input
- 4K / full HD 1080p video upscaling from analog and HDMI input
- HDMI: 8 (1 on front) and 2 output with 3D and Audio Return Channel
- Supports Deep Color (30/36 bit), x.v.Color, 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

- 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
- Network functions
  - Easy Wi-Fi setup i.e. iOS Wi-Fi setting sharing, WPS etc.
  - AirPlay allows music streaming from Mac, PC, iPod, iPhone, iPad
  - AV Controller app for operating various functions from an iPod, iPhone, iPad or Android phones
  - Access to: Internet Radio (vTuner): MP3, WMA  
Streaming Services (Pandora®, Rhapsody®, Spotify®, SiriusXM)  
\*Music service availability varies by region.  
Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC, Apple Lossless
  - DLNA 1.5 certified

- Wireless Direct connects a mobile device directly without home network
- Gapless playback compatibility allows play without interruption
- HTC Connect™ for music streaming from HTC Connect™ compatible smartphones
- MHL supports full HD video and audio from mobile phones and portable devices
- Front panel USB Digital Connection for iPod, iPhone and iPad
- Advanced multi-language GUI on-screen display with album art
- YPAO R.S.C. (Reflected Sound Control) sound optimization 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/NET/AUX input)
- DC Out for optional accessories such as YBA-11 Bluetooth adapter

### Surround Realism

- HD Audio decoding with CINEMA DSP 3D (17 DSP programs)
- Compressed Music Enhancer with CINEMA DSP
- Dialogue Lift ensures that dialogue comes from the center 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
- YPAO Volume to ensure natural sounds even at low volume
- Extra Bass enriches the powerful bass sound even with small speakers
- Adaptive DRC (Dynamic Range Control) and Adaptive DSP level
- 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)
- Zone 2 on/off and control on front panel
- Zone max volume and initial volume setting
- 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).
- Auto power standby function with variable time setting
- Low standby power consumption of 0.1 W

### Wi-Fi Built-in Provides Superior Functionality with Easy Setup

Wi-Fi Built-in improves installation flexibility. WPS and other types of Wi-Fi setup are supported. By using Wireless Direct, you can connect the AV Receiver wirelessly and directly to a smartphone, making it possible to enjoy music files on the phone via AirPlay or HTC Connect™, and to operate the receiver via AV Controller App.



### YPAO R.S.C (Reflected Sound Control) and YPAO Volume

YPAO analyzes the room acoustics and your system, then precisely adjusts various audio parameters to provide optimum sound. YPAO R.S.C. enhances the sound to studio-grade quality. YPAO Volume automatically adjusts the high and low frequency levels at any volume level so that you hear natural sounds even at low volume.



### Support for Latest HDMI Version and 4K Ultra HD Upscaling

The RX-A840 supports the latest version of HDMI for 4K 50/60p transmission, and provides two HDMI outputs. HDMI Zone B output sends audio and video to another room. In addition, 4K Ultra HD upscaling boosts lower resolution images to super high-definition, ensuring compatibility with the latest ultra high-resolution video formats.



**4K Ultra HD**  
Pass-Through / Upscaling



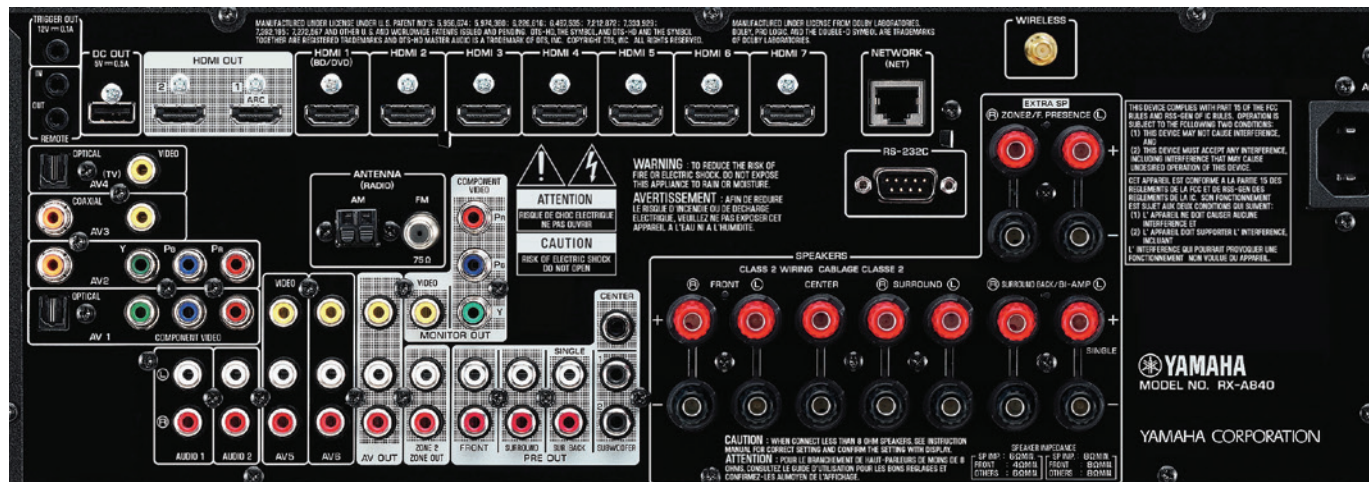
### Main Specifications

#### Audio Section

Rated Output Power (8 ohms, 1 kHz, 0.9 % THD, 2 ch driven)	
Front L/R	110 W / 110 W
Center	110 W
Surround L/R	110 W / 110 W
Surround Back L/R	110 W / 110 W
Rated Output Power (8 ohms, 20 Hz-20 kHz, 0.09 % THD, 2 ch driven)	
Front L/R	100 W / 100 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 Control on, Standby Through on	2.0 W
Network Standby on	3.5 W (Wired)
Dimensions (W x H x D)	17-1/8" x 6-3/4" x 14-1/2"
	(with antenna: 17-1/8" x 9-1/4" x 15")
	435 x 171 x 367 mm
	(with antenna: 435 x 234 x 380 mm)
Weight	23.4lbs./10.6 kg



### Extensive Connections

#### Inputs

HDMI*1 (Audio Input Assignable*2, Front HDMI : MHL input compatible)	8
Network (Ethernet / Wi-Fi)	1 / 1
USB*1	1
Radio Antenna (FM / AM)	1 / 1
Optical Digital	2
Coaxial Digital	2
Analog Audio*1	5
Component Video (Audio Input Assignable)	2
Composite Video*1	5

\*1 Including front panel terminals.  
\*2 Front HDMI input is not assignable.

#### Outputs

HDMI	2 (simultaneous)
Analog Audio	1
Analog AV	1
Pre Out	7.2ch
Component Video Monitor	1
Composite Monitor	1
Composite AV	1
Speaker*3 (without subwoofer)	7ch / 9 ter
Subwoofer	2 x mono
DC Out*5	1
Headphone Jack	1

\*3 Assignable for surround back L/R to bi-amp (front L/R).  
\*4 Extra speaker terminals are assignable to Zone 2 or Presence.  
\*5 For optional accessories.

#### Others

Zone 2 Audio Out	1
Remote In/Out	1 / 1
+12V/0.1A Trigger Out	1
RS-232C	1
Terminal for Detachable Power Cable	1

• "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, 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, iPhone, or iPad may affect wireless performance. iTunes, AirPlay, iPad, iPhone, iPod, iPod nano, iPod touch, and Safari are trademarks of Apple Inc., registered in the U.S. and other countries. • 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. • The HTC Connect™ logo is a trademark of HTC Corporation. • Spotify and Spotify logo are registered trademarks of the Spotify Group. • Pandora and Pandora Internet Radio logo are registered trademarks or trademarks of Pandora Media, Inc. in the United States and/or other countries. • Rhapsody and the Rhapsody logo are registered trademarks of Rhapsody International, Inc. • SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii. • 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. • Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. • DTS, DTS-HD, the Symbol, & DTS or DTS-HD and the Symbol together are registered trademarks of DTS, Inc. • 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. • MHL and the MHL logo are a trademark, registered trademark or service mark of MHL, LLC in the United States and/or other countries. • Burr-Brown products are trademarks of Texas Instruments, Inc. • "x.v.Color" 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.