

AVENTAGE 7.2-channel Network AV Receiver delivers high quality audio and video performance and sports a classy exterior with ceiling panel. Uses Anti Resonance Technology Wedge design and also offers MHL support, AV Controller App support, HDMI Zone B output and Multi-point YPAO R.S.C.



Oil-Damped 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
160W per Channel (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven [European Model])
100W per Channel (8 ohms, 20 Hz-20 kHz, 0.09 % THD, 2 ch driven)
160W per Channel (8 ohms, 1 kHz, 10 % THD, 1 ch driven, JEITA)
- HD Audio format decoding: Dolby TrueHD and DTS-HD Master Audio; Dolby Digital Plus and DTS-HD High Resolution Audio
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce Vibration
- Aluminium front panel for enhanced rigidity
- Full discrete amp configuration
- 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 optimise sound imaging
- Detachable Power Cable for easier installation (also allows cable upgrade)
- Assignable amplifiers for front speaker bi-amp connection
- Intelligent assignable amplifiers for Surround Back <-> Front Presence or Zone 2
- Banana-plug compatible binding post speaker terminal for Zone2/Presence channels
- FLAC or WAV 192kHz/24-bit audio playback
- Phono input for vinyl playback

Video Features

- 4K Pass-Through for next-generation super high resolution images
- 4K / full HD 1080p video upscaling from analog and HDMI input
- HDMI: 8 inputs (1 on front) and 2 output with 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

- 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
 - 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 (Napster®) *Music service availability varies by region. Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC
 - DLNA 1.5 certified

- MHL supports full HD video and audio from mobile phones and portable devices
- Front panel USB Digital Connection for iPod, iPhone and iPad
- Charging of iPod, iPhone and iPad via USB when AV Receiver is off
- iPod/iPhone/iPad song titles displayed in English and Western European languages on the front panel
- Advanced multi-language GUI on-screen display with album art (English, German, French, Spanish, Russian, Italian, Japanese and Chinese)
- 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
- Audio input assign capability for HDMI and component video input
- Ability to change HDMI input while in Standby Through mode
- Audio Delay for adjusting Lip-Sync (0-500 ms)
- Learning-capable and preset remote unit (Preset remote unit in some areas)
- Background Video feature (for tuner and network sources)
- DC Out for optional accessories

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
- Virtual dialogue lift even without use of front presence speakers
- Dialogue Level Adjustment for proper sound balance with dialogue and vocals
- Virtual Presence Speaker function for CINEMA DSP 3D surround without Front Presence Speakers
- Adaptive DRC (Dynamic Range Control) and Adaptive DSP level
- SILENT CINEMA and New Virtual CINEMA DSP for 7.1-channel surround sound
- Two subwoofer outputs (simultaneous outputs)

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
- RS-232C interface

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 0.15W

AV Receiver RX-A830

Anti Resonance Technology Wedge Helps to Ensure that Vibrations Do Not Affect Sound Quality

The Anti Resonance Technology (A.R.T.) Wedge is a fifth foot in the centre of the unit. It dampens vibrations from the power transformer, power transistors and heat sinks, as well as vibrations that might be caused by the sound from the speakers.



Advanced Connectivity: MHL Support, 4K Upscaling and HDMI Zone B Output

MHL (Mobile High-Definition Link) lets you connect MHL-compatible mobile phones to enjoy stored content at up to 1080p video quality and with 7.1-channel sound. 4K upscaling delivers super high definition from lower resolution video sources. HDMI Zone B output sends audio and video to another room.

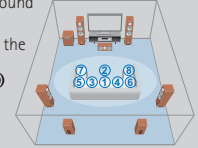


4K Pass-Through / 4K Upscaling



YPAO R.S.C. with Multipoint Measurement

Yamaha's unique YPAO analyses room acoustics and the speaker system, then precisely calibrates audio parameters to achieve optimum sound at any of eight listening positions. R.S.C. (Reflected Sound Control) corrects the negative effects of reflected sound for studio-grade quality. DSP Effect Normalization provides the best DSP effect level according to the room's characteristics.



Main Specifications

Audio Section	
Rated Output Power (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven [European Model])	160 W + 160 W
Front L/R	
Rated Output Power (8 ohms, 20 Hz-20 kHz, 0.09 % THD, 2 ch driven)	100 W + 100 W
Front L/R	
Maximum Effective Output Power (8 ohms, 1 kHz, 10 % THD, 1 ch driven, JEITA)	
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)	140/180/210/250 W
General	
Standby Power Consumption	
HDMI Control off, Standby Through off	0.15 W
HDMI Control on, Standby Through on	3.0 W
Network Standby Through on	3.0 W
Dimensions (W x H x D)	435 x 171 x 369 mm
	17-1/8" x 6-3/4" x 14-1/2"
Weight	10.5 kg; 23.2 lbs.

Optional Accessories

WiFi Adapter YWA-10



WiFi Adapter for Wireless Streaming of Additional Music Sources

The YWA-10 makes it possible to stream music wirelessly to the AV receiver from a PC, NAS and internet. 2 LAN port design supports connection of other network device such as Blu-ray player. Power is supplied from the AV receiver via USB.



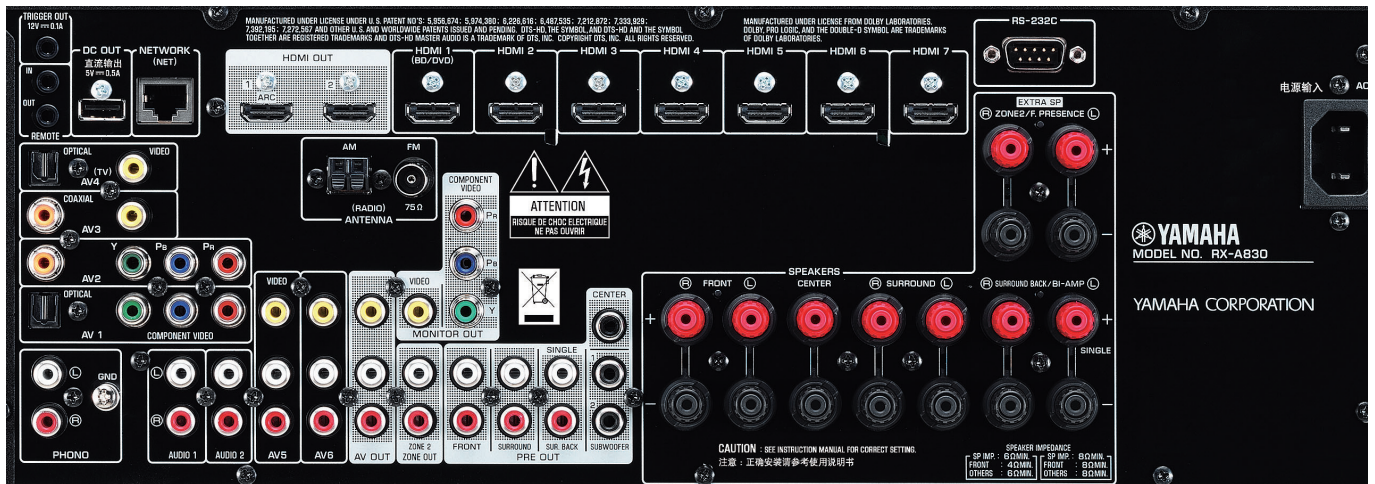
Bluetooth® Wireless Audio Receiver YBA-11



Bluetooth Adapter for Wireless Music Streaming



With the YBA-11, you'll be able to stream music wirelessly from a Bluetooth capable mobile phone or a PC to the AV receiver. Thanks to the digital connection and aptX® audio coding algorithm, you'll enjoy wireless music streaming with optimum sound quality.



Extensive Connections

Inputs	
HDMI*1 (Audio Input Assignable*2, Front HDMI : MHL input compatible)	8
Network	1
USB*1	1
Radio Antenna*3 (FM/AM)	1 / 1
Optical Digital	2
Coaxial Digital	2
Analogue Audio*1 (with Phono)	6
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.

Outputs	
HDMI	2 (simultaneous)
Analogue Audio	1
Analogue AV	1
Pre Out	7.2ch
Component Video Monitor	1
Composite Monitor	1
Composite AV	1
Speaker*4/*5/*6 (without subwoofer)	7ch / 9 ter
Subwoofer	2 x mono
DC Out*7	1
Headphone Jack	1

*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.
*7 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. AirPlay, iPhone, iPod, iPod classic, iPod nano, iPod touch, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries. iPad is a trademark of Apple Inc. AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later. • 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. • The "aptX" software is copyright CSR plc or its group companies. All rights reserved. The aptX™ mark and the aptX logo are trademarks of CSR plc or one of its group companies and may be registered in one or more jurisdictions. • 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. • 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.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.