

9.2ch AV Receiver with 11.2ch expandability and CINEMA DSP HD³ for superb surround sound. Uncompromising construction including A.R.T. Wedge and Double Bottom Frame ensures optimal sound. Great flexibility with AirPlay, AV Controller App and multi-zone HDMI output.



Oil-Damped Hidden Control Panel
Includes HDMI Input Terminal, USB port, Video Aux input terminals, Zone 2/Zone 3/Zone 4 switches, YPAO microphone jack, and more.

Full LED Backlight
Learning and Preset
Remote Unit



Audio Features

- 9-channel powerful surround sound
- 2,070W = 230W x 9 (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven [European Model])
- 1,350W = 150W x 9 (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)
- 2,070W = 230W x 9 (8 ohms, 1 kHz, 10 % THD, 1 ch driven, JEITA)
- HD Audio format decoding
- H-shape cross member frame and rigid bottom frame/double bottom construction
- Symmetrical power amplifier layout
- Heat sink with anti-vibration and anti-thermal properties
- DAC on Pure Ground circuitry
- High speed thermal feedback power amplifier
- Ultra Low Jitter PLL circuitry helps optimise sound imaging
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce vibration
- Heavy legs to add more stability to the chassis
- High Resolution Music Enhancer further heightens musicality from the original content
- Intelligent assignable amplifiers for Surround Back <-> Front Presence or Zone 2
- Phono input for vinyl playback

Video Features

- 4K Pass-Through for next-generation super high resolution images
- 4K upscaling boosts lower resolution images to super high-definition resolution
- 4K / full HD 1080p video upscaling from analogue and HDMI input
- HDMI: 8 inputs (1 on front) and 2 outputs (assignable for zone) with 3D and Audio Return Channel
- Analogue to analogue video upconversion
- HQV high-class chipset "VHD1900" for HD/SD Video
- Variable video adjustment functionality
 - Auto noise reduction (mosquito, block and temporal noise) with customisation capability
 - Auto resolution enhancement (detail and edge enhancement) with customisation capability
 - Auto contrast enhancement
 - Video signal control (Contrast, Brightness, Saturation)
 - 6 preset memories

Advanced Features

- SCENE PLUS - simple and versatile functionality
 - HDMI CEC powers up compatible TVs and Blu-ray Disc™ players
 - 12 SCENE choices (4 on front panel and others on GUI)
 - Zone SCENE - 4 SCENE buttons for Zone 2/Zone 3/Zone 4
 - Versatile parameters can be stored into each SCENE
- Network functions
 - AirPlay allows music streaming from iPad, iPhone, iPod touch, Mac, PC
 - AV Controller app for operating various functions from an iPod, iPhone, iPad or Android phones/tablets
 - Access to: Internet Radio (vTuner): MP3, WMA
 - Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC
 - Web Browser Control via PC or Tablet
 - Receiver Manager through network connection
 - DLNA 1.5 certified

- Front panel USB Digital Connection for iPod, iPhone, iPad and USB device
- Charging of iPod, iPhone and iPad via USB when AV Receiver is off
- HDMI front panel input for devices such as camcorders and digital cameras
- HDMI CEC with versatile control from AV Receiver remote control
- Ability to change HDMI input while in Standby Through mode
- YPAO-R.S.C. (Reflected Sound Control) with multi-point and angle measurement
- New design YPAO microphone for more precise measurement
- Ability to store and choose between two speaker setting patterns
- Advanced multi-language GUI on-screen display with album art (English, German, French, Spanish, Russian, Chinese and Japanese)
- Audio Delay for adjusting Lip-Sync (0-500 ms)
- Macro, Learning and preset capable remote unit
- Background Video feature (for tuner and Net)

Surround Realism

- CINEMA DSP HD³ expands the sound field vertically for more thrilling and realistic surround sound
- HD Audio decoding with CINEMA DSP HD³ (23 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 presence speakers
- Dialogue Level Adjustment for proper sound balance with dialogue and vocals
- Virtual Presence Speaker function for CINEMA DSP HD³ surround without Front Presence Speakers
- Channel expandability with external amplifier (11-channel expandability, bi-amping)
- Adaptive DRC (Dynamic Range Control) and Adaptive DSP Level

Versatile Zone Control

- Zone HDMI ensures flexible multi-room AV configuration
- Zone 2/3/4 on/off and control on front panel
- Zone GUI (song/station select, album cover art display, Zone tone controls/Zone balance, short message)
- Zone 2/3 video assign (Component, S-Video, Composite)
- System Backup / Recovery function
- Zone mono, Zone volume, tone controls and balance
- Party mode

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 down function with variable time setting
- Low standby power consumption of 0.3W



The RX-A3020 offered with black, titanium and gold finish available in some areas.

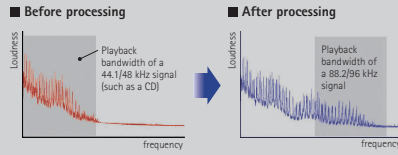
Dynamic, Realistic 9ch Surround Sound

With nine separate channels plus two bass channels, CINEMA DSP HD³ programmes literally take surround sound to new heights, using the extra channels to create higher and wider sound fields. YPAO automatically sets the system for optimum sound at any of several listening positions. It employs Reflected Sound Control to correct early reflections for studio-quality sound.



High Resolution Music Enhancer

Hi-bit high-sampling extension up to 96 kHz / 24-bit can be applied to lossless 44.1/48 kHz content such as from a CD (2-channel PCM) or a FLAC file for further heightening of the musicality in the original content.



Optimum Audio Quality Design Concept

The AVENTAGE line of high-performance AV receivers is based on the audio design concept of "uncompromising excellence." By combining traditional and innovative technologies, and including advanced features such as a symmetrical layout, an A.R.T. Wedge foot and an aluminium front panel, every factor that affects sound quality is optimised for superb musical performance.



Main Specifications

Audio Section

Rated Output Power (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven [European Model])

Front L/R	230 W/ch
Centre	230 W
Surround L/R	230 W/ch
Surround Back L/R	230 W/ch
Front Presence L/R	230 W/ch

Rated Output Power (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)

Front L/R	150 W + 150 W
Centre	150 W
Surround L/R	150 W + 150 W
Surround Back L/R	150 W + 150 W
Front Presence L/R	150 W + 150 W

Maximum Effective Output Power (8 ohms, 1 kHz, 10 % THD, 1 ch driven, JEITA)

Front L/R	230 W/ch
Centre	230 W
Surround L/R	230 W/ch
Surround Back L/R	230 W/ch
Front Presence L/R	230 W/ch

Dynamic Power/Ch (Front L/R, 8/6/4/2 ohms)

175/220/295/410 W

General

Standby Power Consumption

HDMI Control off, Standby Through off	0.3 W (typical)
HDMI Control on, Standby Through on	5.0 W (typical)
Network Standby Through on	2.2 W (typical)

Dimensions (W x H x D)

435 x 192 x 467 mm

Weight

17-1/8" x 7-1/2" x 18-3/8"

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.



Extensive Connections

Inputs	Outputs	Others
HDMI*1	HDMI	Zone 2 Out / F. Pres Pre Out with Volume and Tone Controls
Network	USB*1	Zone 3 Out / R. Pres Pre Out with Volume and Tone Controls*7
USB*1	Optical Digital*4	Remote In/Out*8
Radio Antenna (FM/AM)*2	Analogue Audio	+12V / Total 100 mA Trigger Out*9
Optical Digital (Assignable except Video AUX)*1	Pre Out	RS-232C
Coaxial Digital (Assignable)	Component Video Monitor*5	Terminal for Detachable Power Cable
Analogue AV*1 / Audio (with Phono)	Composite / S-Video Monitor*5	
Component Video (Assignable)	AV Out (Composite / S-Video)	
Composite*1 / S-Video	Speaker (without subwoofer)*6	
Multi-Channel External Decoder	Subwoofer	
	Headphone Jack	

*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, the AirPlay logo, 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. • Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. • DTS, DTS-HD, the Symbol, or 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. • 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.