

9.2ch model designed to maximise sound quality with A.R.T. Wedge design, Symmetrical Amp Layout and Rigid Bottom Frame construction together with newly developed High Resolution Music Enhancer function. Great flexibility with AirPlay, 4K Upscaling, 8/2 HDMI terminals, Zone 2/3 configuration.



The RX-A2020 offered with black, titanium and gold finish available in some areas.

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

Learning and preset capable remote unit



## Audio Features

- 9-channel powerful surround sound  
1,980W = 220W x 9 (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven [European Model])  
1,260W = 140W x 9 (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)  
1,980W = 220W x 9 (8 ohms, 1 kHz, 10 % THD, 1 ch driven, JEITA)
- HD Audio format decoding
- Symmetrical power amplifier layout
- Heat sink with anti-vibration and anti-thermal properties
- Rigid chassis with additional bottom frames
- 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
- High Resolution Music Enhancer further heightens musicality from the original content
- H-shaped Cross Frame for additional chassis rigidity
- 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 (simultaneous) with 3D and Audio Return Channel
- Analogue to analogue video upconversion
- HQV high-class chipset "VHD1900" for HD/SD Video
- Video adjustment functionality
  - Auto noise reduction (mosquito noise, block noise, temporal noise)
  - Auto resolution enhancement (detail/edge enhancement)
  - 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
  - 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) sound optimisation with multi-point 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

- HD Audio decoding with CINEMA DSP 3D (23 DSP programmes)
- Compressed Music Enhancer with CINEMA DSP
- Dialogue Lift ensures that dialogue comes from the center 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 3D surround without Front Presence Speakers
- Channel expandability with external amplifier (9 channel expandability (bi-amping))
- Adaptive DRC (Dynamic Range Control) and Adaptive DSP Level

## Versatile Zone Control

- HDMI Zone B for audio/video streaming to another room (same content as main room)
- Zone 2/3 on/off and control on front panel
- Zone GUI (song/station selection, 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

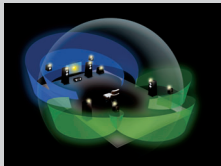
# AV Receiver

## RX-A2020

### NEW PRODUCT BULLETIN

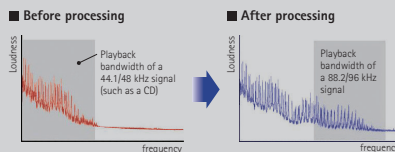
#### Dynamic, Realistic 9ch Surround Sound

With nine separate channels plus bass, CINEMA DSP 3D gives surround sound a true three-dimensional quality, 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	220 W/ch
Centre	220 W
Surround L/R	220 W/ch
Surround Back L/R	220 W/ch
Front Presence L/R	220 W/ch

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

Front L/R	140 W + 140 W
Centre	140 W
Surround L/R	140 W + 140 W
Surround Back L/R	140 W + 140 W
Front Presence L/R	140 W + 140 W

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

Front L/R	220 W/ch
Centre	220 W
Surround L/R	220 W/ch
Surround Back L/R	220 W/ch
Front Presence L/R	220 W/ch

Dynamic Power/Ch (Front L/R, 8/6/4/2 ohms) 165/210/285/405 W

##### General

Standby Power Consumption  
HDMI Control off, Standby Through off  
HDMI Control on, Standby Through on  
Network Standby Through on

0.3 W (typical)  
5.0 W (typical)  
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"

17.1 kg; 37.7 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.



#### Extensive Connections

Inputs	
HDMI <sup>1)</sup>	8
Network	1
USB <sup>1)</sup>	1
Radio Antenna (FM/AM) <sup>2)</sup>	1 / 1
Optical Digital (Assignable except Video AUX) <sup>1)</sup>	4
Coaxial Digital (Assignable)	3
Analogue AV <sup>1)</sup> / Audio (with Phono)	5 / 5
Component Video (Assignable)	4
Composite <sup>1)</sup> / S-Video	5 / 4
Multi-Channel External Decoder	8ch

Outputs	
HDMI	2 (simultaneous)
USB <sup>1)</sup>	1
Optical Digital <sup>1)</sup>	1
Analogue Audio	1
Pre Out	7.2ch
Component Video Monitor <sup>1)</sup>	1
Composite / S-Video Monitor <sup>1)</sup>	1 / 1
AV Out (Composite / S-Video)	1 / 1
Speaker (without subwoofer) <sup>1)</sup>	9ch (11 terminals)
Subwoofer	2 (stereo, front/rear, 2 x mono)
Headphone Jack	1

Others	
Zone 2 Out with Volume and Tone Controls	1
Zone 3 Out with Volume and Tone Controls	1
Remote In/Out <sup>1)</sup>	2 / 2
+12V / Total 100 mA Trigger Out <sup>1)</sup>	2
RS-232C	1
Terminal for Detachable Power Cable	1

<sup>1)</sup> Including front panel terminals.  
<sup>2)</sup> The shape of the FM antenna terminal varies according to area.  
<sup>3)</sup> USB terminal on rear panel is only for optional accessory's power supply.  
<sup>4)</sup> Assignable to AV out.  
<sup>5)</sup> Assignable to monitor out or Zone 2/3 out.  
<sup>6)</sup> Banana-plug compatible speaker terminals are available in some areas.  
<sup>7)</sup> SCENE-IR support  
<sup>8)</sup> Yamaha subwoofer system control support

• "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, & 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.

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