

## AVENTAGE

This 9.2-channel AVENTAGE network AV receiver features Dolby Atmos® and DTS:X™ for surround sound realism. Experience movies in stunning 4K Ultra HD and high dynamic range (HDR). In addition, Hybrid Log-Gamma and Dolby Vision™ Compatibility provide incredible contrast, smooth tone and rich, bright colors. The free MusicCast app makes it easy to access your music library and streaming music services. Connect wirelessly via Wi-Fi®, Bluetooth® and AirPlay® wireless connectivity. A phono input for vinyl playback, advanced HDMI® zone switching and Zone 2/3 control options provide added system versatility.

MusicCast



Microphone base for  
3D and angle measurement



**Oil-Damped Hidden Control Panel**  
Includes HDMI input terminal,  
USB port, Audio input terminals,  
Zone 2 / 3 / 4 switch,  
YPAO™ microphone jack and more.



### Audio Features

- 9-Channel powerful surround sound
  - 140 W per channel (8 ohms, 20 Hz ~ 20 kHz, 0.06% THD, 2-ch driven)
  - 155 W per channel (8 ohms, 1 kHz, 0.9% THD, 2-ch driven)
  - 220 W per channel (8 ohms, 1 kHz, 10% THD, 1-ch driven)
- Symmetrical power amplifier layout
- Heat sink with anti-vibration and anti-thermal properties
- Rigid chassis with additional bottom frames
- H-shaped cross frame for additional chassis rigidity
- Two ESS SABRE™ 9006AS 8-channel DACs featuring true professional digital audio quality
- High-speed thermal feedback power amplifier
- High-quality volume IC and independent pure power supply
- Ultra low-jitter PLL circuitry helps optimize sound imaging
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce vibration
- Advanced design feet enhance strength and vibration resistance **NEW**
- High-resolution Music Enhancer further heightens musicality from the original content
- DSD 2.8 MHz / 5.6 MHz direct playback, FLAC or WAV 192 kHz / 24-bit, Apple® Lossless audio playback
- Compressed Music Enhancer for Bluetooth
- Phono input for vinyl playback

### Video Features

- Latest HDMI (8 in / 2 out) with 4K Ultra HD full support (4K / 60p [4:4:4]), HDR video, Hybrid Log-Gamma and Dolby Vision Compatibility and BT.2020 pass-through **NEW**
- \*Hybrid Log-Gamma and Dolby Vision Compatibility will be available via future firmware update.
- 4K video upscaling from analog and HDMI input
- Yamaha original video processing that optimizes processing for each type of video content
  - Motion-adaptive and edge-adaptive deinterlacing
  - Multicadence (including 3-2 pull-down) detection
  - Resolution enhancement (detail and edge enhancement)
  - Video signal control (contrast, brightness, saturation)

### Advanced Features

- MusicCast for audio enjoyment in every room
- 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 (airable radio): MP3, WMA, streaming services (Spotify, Napster, Pandora®, SiriusXM, TIDAL **NEW**, Deezer **NEW**)
  - Music files on PC / NAS: WAV, MP3, WMA, AAC, FLAC, Apple Lossless, AIFF, DSD
  - DLNA® 1.5 certified
  - Triggered auto playback with MusicCast devices **NEW**
- Gapless playback compatibility allows play without interruption
- Front panel USB Digital Connection for USB thumb drives
- Advanced GUI on-screen display with HD capability
- YPAO™-R.S.C.sound optimization with 3D, 64-bit precision EQ calculation multipoint and angle measurement **NEW**

- High-sensitivity YPAO microphone for more precise measurement
- Video out feature (for TUNER / USB / NET / Bluetooth)
- SCENE PLUS - simple and versatile functionality
  - 12 SCENE choices (4 on front panel and others on GUI)
  - Selectable BD / DVD, TV, FM / AM radio and Net Radio stations, tune-in NAS **NEW**
  - Zone SCENE - 4 SCENE buttons for Zone 2 / 3 / 4
  - HDMI CEC powers up compatible TVs and Blu-ray Disc™ players
  - Versatile parameters can be stored into each SCENE

### Surround Realism

- Dolby Atmos and DTS:X with CINEMA DSP HD3 **NEW**
- CINEMA DSP HD3 with Rear VPS (Virtual Presence Speaker) **NEW**
- Enhanced CINEMA DSP Program **NEW** (Total 44 DSP programs)
- Rear presence channel support for maximum 3D sound effect
- 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
- 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
- Zone Extra Bass for more powerful bass sound in another room (Zone 2 and 3)
- Zone Volume Equalizer for optimum sound balance in another room (Zone 2 and 3)
- Extra Bass enriches the powerful bass sound even with small speakers
- SILENT CINEMA™ to enjoy surround sound with headphones

### Versatile Zone Control

- Pre out terminal for Zone 2 with volume control
- Advanced HDMI Zone Switching allows various input sources to be output via HDMI and enjoyed in different rooms
- Zone 2 / 3 / 4 on / off and control on front panel
- Zone GUI (song / station selection, album cover art display)
- System backup / recovery function
- Zone mono, Zone volume, Zone tone controls, Zone balance, Zone audio delay and 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 Standby function with variable time setting
- With an advanced energy saving design, this AV receiver achieves a low power consumption of not more than 2 W when in Network Standby mode.

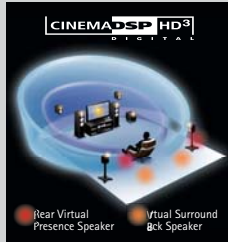


Yamaha Eco-Label

Yamaha Eco-Label is a mark that certifies products of high environmental performance.

**CINEMA DSP HD<sup>3</sup> with Rear VPS (Virtual Presence Speaker)**

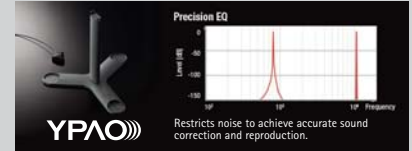
Three Yamaha high-performance DSPs achieve high speed and large capacity audio signal processing. By using front, center and surround speakers to create a rear virtual speaker, CINEMA DSP HD<sup>3</sup> can produce 11.1 channels even with a 7.1-channel speaker configuration. The total reproduction of spatial data, including the vertical axis, helps create an overwhelmingly realistic sound field.

**New CINEMA DSP Program, Dolby Atmos<sup>®</sup> and DTS:X<sup>™</sup> with CINEMA DSP HD<sup>3</sup>**

This receiver offers the new Enhanced CINEMA DSP sound field program, featuring a new sound field processing algorithm that increases the sound source motion tracking and spatial representation power of the latest formats, including 3D surround. It also supports Dolby Atmos and DTS:X playback with CINEMA DSP HD<sup>3</sup>, taking the surround sound experience to new heights.

**YPAO<sup>™</sup>- R.S.C. with Precision EQ, Angle Measurement and YPAO 3D**

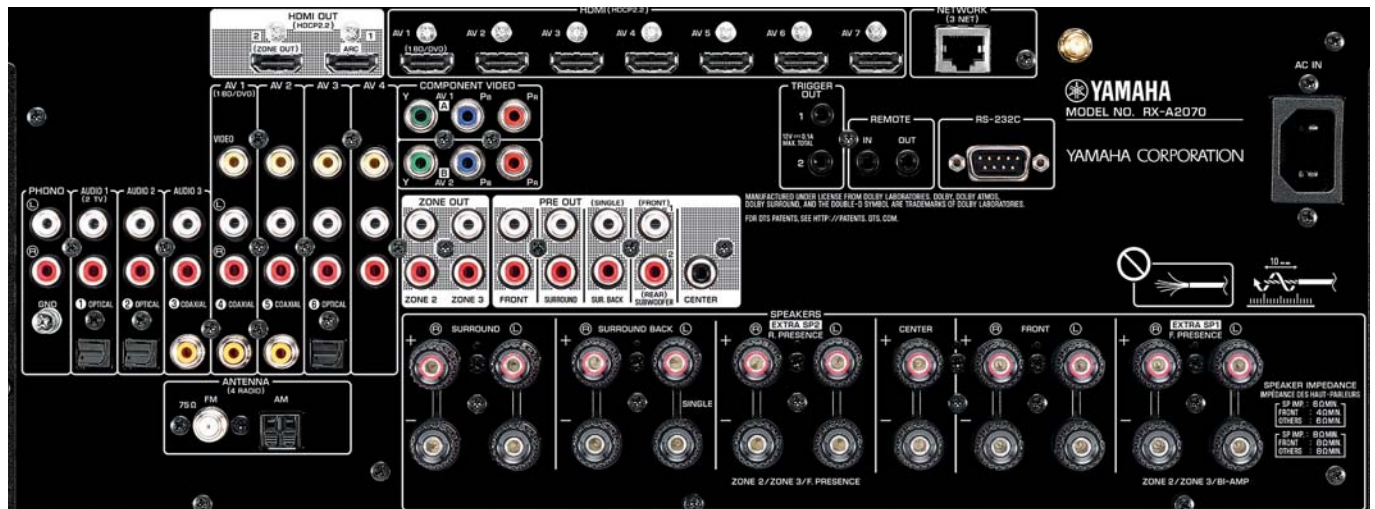
YPAO-R.S.C. analyzes the room acoustics with the included YPAO microphone to tune your system for the best sound in your room. It employs R.S.C. (Reflected Sound Control) to correct early reflections for studio-quality surround sound, and also 64-bit-operation precision EQ and angle measurement for greater accuracy. YPAO 3D maximizes the 3D sound field effectiveness with Dolby Atmos and DTS:X.

**Main Specifications****Audio Section**

Rated output power (8 ohms, 20 Hz - 20 kHz, 0.06% THD, 2-ch driven)	
Front L / R	140 W + 140 W
Center	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
Rated output power (8 ohms, 1 kHz, 0.9% THD, 2-ch driven)	
Front L / R	155 W + 155 W
Maximum effective output power (8 ohms, 1 kHz, 10% THD, 1-ch driven)	
Front L / R	220 W + 220 W
Center	220 W
Surround L / R	220 W + 220 W
Surround back L / R	220 W + 220 W
Front presence L / R	220 W + 220 W
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	0.1 W
HDMI control on, Standby Through on, Network Standby off	1.3 W
Network Standby on	1.8 W (wireless)
Dimensions (W x H x D)	
17-1/8" x 7-1/2" x 18-5/8"	
(with antenna up: 17-1/8" x 9-3/4" x 18-5/8")	
Weight	
37.5 lbs.	

**Extensive Connections****Inputs**

HDMI <sup>1</sup> (audio input assignable <sup>2</sup> , HDMI 1 - 7: HDCP 2.2 compatible)	8
Network (Ethernet / Wi-Fi <sup>®</sup> )	1 / 1
USB <sup>3</sup>	1
Radio antenna (FM / AM)	1 / 1
Optical digital	3
Coaxial digital	3
Analog audio <sup>1</sup> (with phono)	9
Component video (audio input assignable)	2
Composite video <sup>1</sup>	4

**Outputs**

HDMI (HDCP 2.2 compatible)	2 (Zone assignable)
Pre out	7.2 ch
Speaker <sup>3</sup> /4	9 ch / 11 ter
Subwoofer	2 (stereo, front / rear, mono x 2)
Headphone jack <sup>1</sup>	1

<sup>1</sup> Including front panel terminals.

<sup>2</sup> Front HDMI input is not assignable.

<sup>3</sup> Assignable for surround back L / R to Zone 2.

<sup>4</sup> Assignable for front presence L / R to bi-amp (front L / R) or Zone 2.

**Others**

Zone 2 audio out with volume and tone controls	1
Zone 3 audio out with volume and tone controls	1
Remote in / out	1 / 1
+12 V / Total 0.1 A trigger out	2
RS-232C	1
Terminal for detachable power cable	1

• AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion or later, and Mac and PC with iTunes 10.2.2 or later. Supports iOS 7 or later for setup using Wireless Accessory Configuration. "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, iPad, iPhone, iPod, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. The Bluetooth<sup>®</sup> 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.

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