

# Specifications

## RX-A1070 AV Receiver **AVENTAGE**

7.2  
ch



The RX-A1070 offered with black and titanium finish available in some areas.



### Output Power

<b>For North America</b>	<b>110 W per Channel</b> (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)
	<b>120 W per Channel</b> (8 ohms, 1 kHz, 0.9 % THD, 2 ch driven)
	<b>165 W per Channel</b> (8 ohms, 1 kHz, 10 % THD, 1 ch driven)

<b>For Euro</b>	<b>170 W per Channel</b> (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven)
	<b>110 W per Channel</b> (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)

<b>For Others</b>	<b>110 W per Channel</b> (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)
	<b>165 W per Channel</b> (8 ohms, 1 kHz, 10 % THD, 1 ch driven)

### Standby Power Consumption

HDMI Control off, Standby Through Off	0.1 W
HDMI Control, Standby Through On, Network Standby Off	1.3 W
Network Standby On	1.8 W (wireless)

### Dimensions (W x H x D)

435 x 182 x 439 mm (with antenna up: 435 x 247 x 439 mm)  
17-1/8" x 7-1/8" x 17-1/4" (with antenna up: 17-1/8" x 9-3/4" x 17-1/4")

### Weight

14.9 kg; 32.8 lbs.

### Inputs

HDMI*1 (Audio Input Assignable*2, HDMI1-7: HDCP2.2 compatible)	8
Network (Ethernet / Wi-Fi)	1 / 1
USB*1	1
Radio (FM/AM)	1 / 1
Antenna (European and Australia models: FM/DAB)	1 / 1
Optical Digital	3
Coaxial Digital	3
Analogue Audio*1 (with Phono)	9
Component Video (Audio Input Assignable)	2
Composite Video*1	4

### Outputs

HDMI (HDCP2.2 compatible)	2 (Zone assignable)
Pre Out	7.2ch
Speaker*3/4	7 ch / 9 ter
Subwoofer	2 x mono
Headphone Jack*1	1

### Others

Zone 2 Audio Out with Volume and Tone Controls	1
Remote In/Out	1 / 1
+12V / Total 0.1A Trigger Out	2
RS-232C	1
19-pin HDMI Audio Out Assignable	1

\*1 Including front panel terminals.  
\*2 Front HDMI inputs for Assignable Cable

\*3 Assignable for surround back L/R to Zone 2.

\*4 Assignable for front presence L/R to bi-amp (front L/R) or Zone 2.

\*Streaming service availability depends on regions.

DAB tuner only for European and Australia models.

# Features

## RX-A1070 AV Receiver **AVENTAGE**



### Main Features

- New CINEMA DSP Programme: Enhanced **NEW**
- Dolby Atmos® and DTS:X™ with CINEMA DSP HD **NEW**
- **CINEMA DSP HD<sup>3</sup> with Rear VPS (Virtual Presence Speaker)** **NEW**
- AVENTAGE AV Receivers: Designed to Deliver the Highest Levels of Audio Performance
- Aluminium Front Panel Offers Visual and Aural Benefits
- Anti Resonance Technology (A.R.T.) Wedge helps to ensure that vibrations do not affect sound quality
- **Advanced design feet enhance strength and vibration resistance** **NEW**
- Symmetrical Power Amp Layout and Rigid chassis with additional bottom frames
- Professional quality digital audio by ESS DAC
- MusicCast for audio enjoyment in every room
- DAB/DAB+ tuner for enjoying high quality digital radio broadcasts **NEW**  
(European and Australia models only)
- 7-channel powerful surround sound
  - 110 W per channel (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)
  - 120 W per channel (8 ohms, 1 kHz, 0.9 % THD, 2 ch driven)
  - 165 W per channel (8 ohms, 1 kHz, 10 % THD, 1 ch driven)
  - 170 W per channel (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven)
- Wi-Fi Built-in and Wireless Direct Compatible for Easy Network

- **Bluetooth®** for wireless music streaming and Compressed Music Enhancer for *Bluetooth®*
- AirPlay, Napster®, Spotify®, JUKE\*, Qobus\*, TIDAL\*, Deezer\* music streaming service and AV Controller app **NEW**  
\*Music service availability varies by region.
- DSD 2.8MHz / 5.6MHz direct playback, FLAC / WAV / AIFF 192kHz / 24bit, Apple Lossless 96kHz / 24-bit playback
- **Latest HDMI® (8 in / 2 out) with 4K Ultra HD Full Support (4K / 60p [4:4:4]), HDR Video including Dolby Vision and Hybrid Log-Gamma, and BT.2020 pass-through** **NEW**
- HDMI® with eARC (Audio Return Channel) **NEW**
- YPAO™-R.S.C. sound optimisation with 64-bit precision EQ calculation multi-point and angle measurement **NEW**
- YPAO™ Volume to ensure natural sounds even at low volume
- Virtual Surround Back Speaker for playing 7.1-channel content with a 5.1-channel system
- HDMI® Zone Switching allows different HD audio / video sources playback in different rooms
- Detachable AC power cord for easier installation
- ECO mode operation for about 20% less power consumption

# Features

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## Audio Features

- 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
- ESS SABRE™9006AS 8-channel DAC 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 optimise 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 2.8MHz / 5.6MHz direct playback
- FLAC or WAV 192kHz/24-bit audio playback
- 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 including Dolby Vision and Hybrid Log-Gamma, and BT.2020 pass-through** NEW
- 4K video upscaling from analogue and HDMI® input
- Yamaha original video processing that optimises processing for each type of video content
  - Motion adaptive and edge adaptive deinterlacing
  - Multi-cadence (incl. 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)
- DAB/DAB+ tuner for enjoying high quality digital radio broadcasts (European and Australia models only) NEW
- DAB/DAB+ and FM tuners both have 40 station preset memories (European and Australia models only) NEW
- 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 (Napster®, Spotify®, Pandora®, JUKE®, Qobuz®, TIDAL®, Deezer®) NEW
- \*Music service availability varies by region.
- 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 thumbdrives
- Advanced GUI on-screen display with HD capability
- HDMI® with eARC (Audio Return Channel) NEW

- YPAO™-R.S.C. sound optimisation with 64-bit precision EQ calculation and multi-point measurement NEW
- 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
  - 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 S NEW)
- New CINEMA DSP Programme: Enhance NEW (Total 44 DSP programmes)
- Rear presence channel support for maximum 3D sound effect
- Compressed Music Enhancer with CINEMA DSP
- Dialogue Lift ensures that dialogue comes from the centre 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)
- Zone Volume Equalizer for optimum sound balance in another room (Zone 2)
- Extra Bass enriches the powerful bass sound even with small speakers
- SILENT CINEMA to enjoy surround sound with headphone

## 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 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 and Zone audio delay
- 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)
- Low standby power consumption of 0.1W
- Auto power standby function with variable time setting