YAMAHA

AV Receiver
RX-A2040

AVENTAGE

AVENTAGE 9.2-channel Wi-Fi Built-In AV Receiver features 4K 50/60p support, Advanced HDMI Zone Switching, audiophile-grade design including symmetrical power amp layout, high-resolution audio support and two high quality ESS DACs.

The RX-A2040 offered with black, titanium and gold finish available in some areas.

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

Audio Features

- 9-channel powerful surround sound
  220W per Channel (4 ohms, 1 kHz, 0.9% THD, 1 ch driven [European Model])
  140W per Channel (8 ohms, 20 Hz–20 kHz, 0.06% THD, 2 ch driven)
  220W per Channel (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
- Two ESS ES9006 8-channel DACs featuring true professional digital audio quality
- 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 <-> Rear Presence or Zone2/3
- Phono input for vinyl playback
- FLAC or WAV 192kHz/24-bit audio playback
- Apple Lossless audio playback

Video Features

- 4K Ultra HD Pass-Through for super high resolution images
- 4K Ultra HD upscaling boosts lower resolution images to super high-definition resolution
- The latest HDMI version support for 4K 50/60p input
- HDMI: 8 inputs (1 on front) and 2 outputs (assignable for zone 2/4) with 3D and Audio Return Channel
- 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

- 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 2/3/4
  - Versatile parameters can be stored into each SCENE
- Network functions
  - Wi-Fi Built-in
  - Wireles Direct connects a mobile device directly without home network
  - 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 an iPod, iPhone, iPad or Android phones/tablets
  - Access to: Internet Radio (vTuner): MP3, WMA
      Streaming Services (Napster®, Spotify®, Pandora®) *Music service availability varies by region.
      Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC, Apple Lossless

- Gapless playback compatibility allows play without interruption
- HTC Connect™ for music streaming from HTC Connect™ compatible smartphones
- MHL supports full HD video and audio from mobile phones and portable devices
- Front panel USB Digital Connection for iPod, iPhone, iPad and USB device
- YPAO R.S.C. (Reflected Sound Control) sound optimisation with multi-point measurement
- High sensitivity YPAO microphone for more precise measurement
- Advanced multi-language GUI on-screen display with album art
- Background Video feature

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 centre of the screen
- Dialogue Level Adjustment for proper sound balance with dialogue and vocals
- Virtual CINEMA FRONT provides virtual surround sound with 5 speakers in front
- YPAO Volume to ensure natural sounds even at low volume
- Extra Bass enriches the powerful bass sound even with small speakers
- Adaptive DRC (Dynamic Range Control) and Adaptive DSP Level
- SILENT CINEMA to enjoy surround sound with headphone

Versatile Zone 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, Zone tone controls/Zone balance, short message)
- 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 standby function with variable time setting
- Low standby power consumption of 0.1W

Powered by music

Sound Quality Unrivalled in Its Class

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. The RX-A2040 also takes full advantage of two ES9006 Premier Audio DACs from ESS Technology. These DACs provide 8-channel DA conversion with exceptionally good S/N ratio and dynamic range to ensure true professional audio quality.
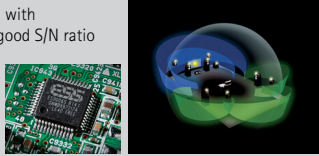
Wi-Fi Built-in Provides Superior Functionality with Easy Setup

Wi-Fi Built-in improves installation flexibility. WPS and other types of Wi-Fi setup are supported. By using Wireless Direct, you can connect the AV Receiver wirelessly and directly to a smartphone, making it possible to enjoy music files on the phone via AirPlay or HTC Connect™, and to operate the receiver via AV CONTROLLER App.

YPAO with R.S.C., Multipoint Measurement and YPAO Volume

YPAO analyses the room acoustics and your system, then precisely adjusts various audio parameters to provide optimum sound. YPAO R.S.C. (Reflected Sound Control) enhances the sound to studio-grade quality. YPAO Volume automatically adjusts the high and low frequency levels at any volume level so that you hear natural sounds even at low volume.

Listening level at low volume

YPAO Volume ON
YPAO Volume OFF

OFF | ON | YPAO Volume Effect

Main Specifications

Audio Section

Rated Output Power (4 ohms, 1 kHz, 0.9% THD, 1 ch driven [European Model])	
Front L/R	220 W / 220 W
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 / 220 W
Centre	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	2.5 W
Network Standby on	3.1 W (Wired)
Dimensions (W x H x D)	435 x 192 x 467 mm
	(with antenna: 435 x 252 x 474 mm)
	17-1/8" x 7-1/2" x 18-3/8"
	(with antenna: 17-1/8" x 9-7/8" x 18-5/8")
Weight	17.0 kg; 37.5 lbs.
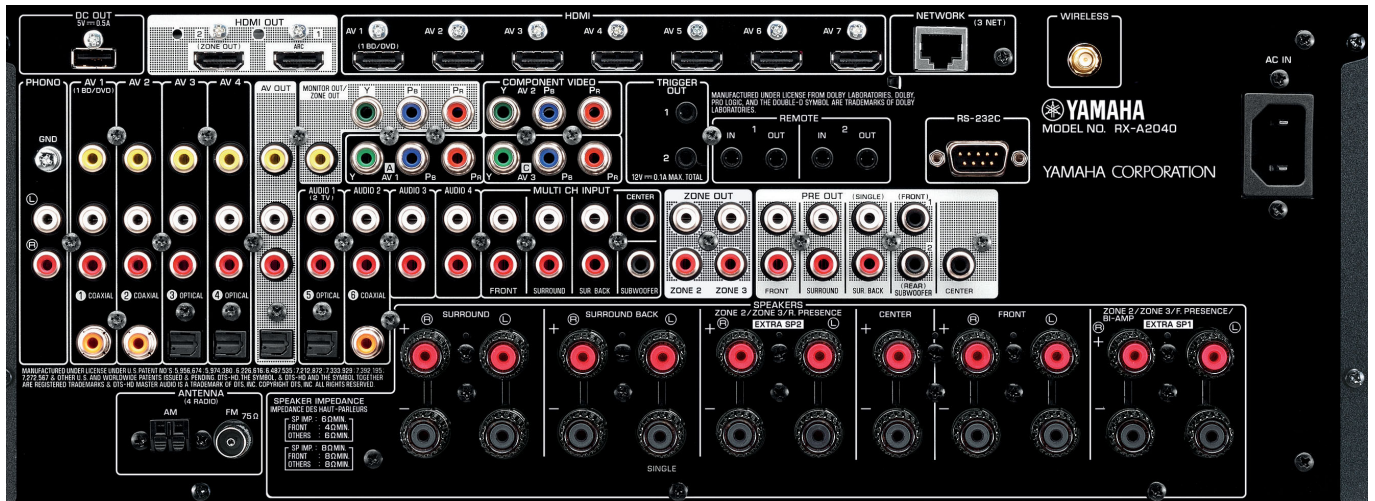
European Model

Extensive Connections

Inputs

HDMI*1 (Audio Input Assignable*2, Front HDMI : MHL input compatible)	8
Network (Ethernet / Wi-Fi)	1 / 1
USB*1	1
Radio Antenna (FM/AM)*3	1 / 1
Optical Digital (Assignable)	3
Coaxial Digital (Assignable)	3
Analogue AV*1 / Audio (with Phono)	5 / 5
Component Video (Assignable)	3
Composite*1	5
Multi-Channel Input	8ch

Outputs

HDMI	2 (Zone assignable)
Optical Digital	1
Analogue Audio	1
Pre Out	7.2ch
Component Video Monitor*4	1
Composite Monitor*4	1
AV Out (Composite)	1
Speaker*5	9ch (11 terminals)
Subwoofer	2 (stereo, front/rear, mono x 2)
DC Out*6	1
Headphone Jack*1	1

Others

Zone 2 Out with Volume and Tone Controls	1
Zone 3 Out with Volume and Tone Controls	1
Remote In/Out	2 / 2
+12V / Total 100 mA Trigger Out*7	2
RS-232C	1
Terminal for Detachable Power Cable	1

*1 Including front panel terminals.
*2 Front HDMI input is not assignable.
*3 The shape of the FM antenna terminal varies according to area.
*4 Assignable to monitor out or Zone 2/3 out.
*5 Banana-plug compatible speaker terminals are available in some areas.
*6 For optional accessories.
*7 Yamaha subwoofer system control support.