RX-V681 AV Receiver

7.2 ch

Standby Power Consumption

HDMI Control off, Standby Through off	0.1 W
HDMI Standby Through on	1.1 W
Network Standby on	2.1 W (wired)

Dimensions (W x H x D)

435 x 171 x 378 mm (with antenna up: 435 x 234 x 378 mm)
17-1/8" x 6-3/4" x 14-7/8" (with antenna up: 17-1/8" x 9-1/4" x 14-7/8")

Weight

10 kg; 22.1 lbs.

Inputs

HDMI*1 (Audio Input Assignable*2,HDMI1,2,3:HDCP2.2 compatible)	6
Network (Ethernet / Wi-Fi)	1 / 1
USB*1	1
Radio Antenna (FM/AM)	1 / 1
Optical Digital	2
Coaxial Digital	2
Analogue Audio (with Phono)	5
Component Video (Audio Input Assignable)	2
Composite Video*1	4

Outputs

HDMI (HDCP2.2 compatible)	1
MONITOR OUT (Component)	1
MONITOR OUT (Composite)	1
Speaker (without subwoofer)*3 / *4	7ch (9 terminals)
Subwoofer	2 x mono
Headphone Jack*1	1

Others

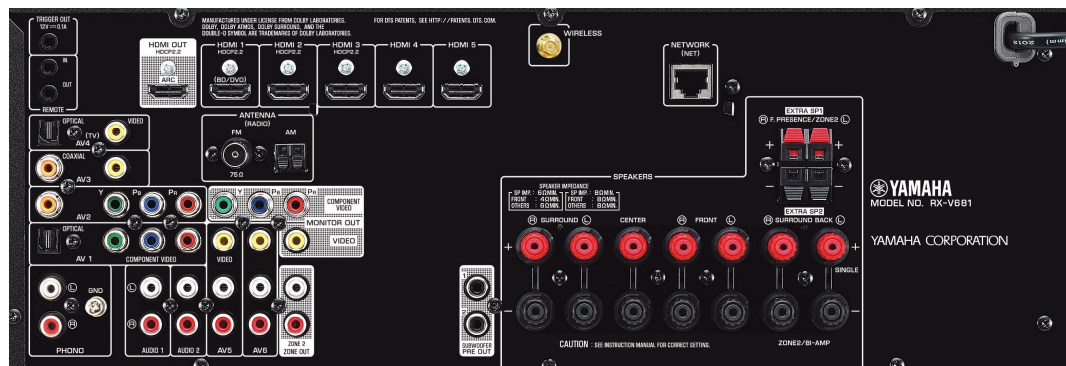|	
Zone 2 Audio Out	1
Remote In/Out	1 / 1
+12V/0.1A Trigger Out	1

*1 Including front panel terminals.
*2 Front HDMI input is not assignable.
*3 Assignable for surround back L/R to bi-amp (front L/R) or Zone 2.
*4 Extra speaker terminals are assignable to Zone 2 or Presence.

*Streaming service availability depends on regions.

RX-V681 AV Receiver

Main Features

- Dolby Atmos® and DTS:X™ support
- MusicCast for audio enjoyment in every room
- 7-channel powerful surround sound
- AirPlay®, Napster®*, Spotify®*, Pandora®*, JUKE* music streaming service and AV Controller app *Music service availability varies by region.
- HDMI® (6 in / 1 out) 4K Ultra HD Full Support with 4K60p (4:4:4), HDCP2.2 (3 in / 1 out), HDR Video and BT.2020 pass-through
- YPAO™ Reflected Sound Control (R.S.C.) sound optimisation for automatic speaker setup
- 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
- Advanced GUI on-screen display with (English, German, French, Spanish, Russian, Italian, Japanese and Chinese)
- Multi-zone audio support (Zone2)
- Phono input for vinyl playback
- ECO mode operation for about 20% less power consumption

Audio Features

- 7-channel powerful surround sound
  90 W per channel (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2 ch driven)
  150 W per Channel (8 ohms, 1 kHz, 10 % THD, 1 ch driven)
  150 W per Channel (4 ohms, 1 kHz, 0.9 % THD, 1 ch driven)
- Dolby Atmos® and DTS:X™ support
- Full discrete amp configuration
- Pure Direct for pure HiFi sound quality enjoyment
- Burr-Brown 192 kHz/24-bit DACs for all channels
- Low jitter PLL circuitry helps optimise sound imaging
- Assignable amplifiers for front speaker bi-amp connection
- Intelligent assignable amplifiers for Surround Back <-> Front Presence or Zone 2
- DSD 2.8MHz/5.6MHz audio 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

- 4K video upscaling from analogue and HDMI® input
- HDMI® (6 in / 1 out) 4K Ultra HD Full Support with 4K60p (4:4:4), HDCP2.2 (3 in / 1 out), HDR Video and BT.2020 pass-through
- Supports Deep Colour (30/36 bit), x.v.Colour, 24 Hz Refresh Rate and Auto Lip-Sync compensation
- High quality video processing with precise deinterlacing
  - Motion adaptive and edge adaptive deinterlacing
  - Multi-cadence (incl. 3-2 pull-down) detection

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 (vTuner): MP3, WMA
    Streaming Services (Napster®*, Spotify®*, Pandora®*, JUKE®*)
    *Music service availability varies by region.
    Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC, Apple Lossless, AIFF, DSD
  - DLNA® 1.5 certified
- Wireless Direct connects a mobile device directly without home network
- Gapless playback compatibility allows play without interruption
- Front panel USB Digital Connection for USB thumbdrives
- Advanced GUI on-screen display with HD capability
- HDMI® CEC with versatile control from AV Receiver remote control
- YPAO™ R.S.C. (Reflected Sound Control) sound optimisation for automatic speaker setup
- HDMI® front panel input for devices such as camcorders and digital cameras
- Ability to change HDMI® input while in Standby Through mode
- Audio Delay for adjusting Lip-Sync (0-500 ms)
- Background Video feature (for Radio/ USB / Bluetooth® /AUDIO / NET / AUX input)
- SCENE buttons with direct power on (BD/DVD, TV, Net and Radio)
  - Quick and simple to use
  - HDMI® CEC powers up compatible TVs and Blu-ray Disc™ players

Surround Realism

- HD Audio decoding with CINEMA DSP 3D (17 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 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
- Extra Bass enriches the powerful bass sound even with small speakers
- SILENT CINEMA to enjoy surround sound with headphone
- Two subwoofer outputs (simultaneous outputs)

Versatile Zone Control

- Pre-out terminal for Zone 2 with volume control
- Zone 2 on / off and control on front panel
- Zone max volume and initial volume setting
- Party mode
- Remote input/output
- Programmable +12V trigger output

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
- Improved Network and HDMI® Standby Power Consumption