

7.2-channel AV receiver with versatile connectivity to take full advantage of the high AV quality.

MusicCast



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 Hi-Fi sound quality enjoyment
- 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 2.8 MHz / 5.6 MHz audio playback
- FLAC or WAV 192 kHz / 24-bit audio playback
- Apple® Lossless audio playback
- Compressed Music Enhancer for Bluetooth®
- Phono input for vinyl playback

Video Features

- HDMI® (6 in / 1 out) with HDR Video and BT.2020 pass-through
- 4K video upscaling from analogue and HDMI input
- 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)
- Bluetooth Output for Convenient Music Streaming
- 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®, Tidal®, Deezer®, Quboz®, JUKE®) **NEW** *Streaming 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**
- 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)
- Video out feature (for TUNER / USB / NET / Bluetooth / AUDIO)

- SCENE buttons with direct power on
- Selectable BD / DVD, TV, FM / AM radio and Net Radio stations, tune-in NAS **NEW**
- 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
- Zone Extra Bass for more powerful bass sound in another room (Zone 2) **NEW**
- Zone Volume Equalizer for optimum sound balance in another room (Zone 2) **NEW**
- 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 mono, Zone volume, Zone tone controls, Zone balance and Zone audio delay **NEW**
- 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
- With an advanced energy saving design, This AV receiver achieves a low power consumption of not more than two watts when in Network Standby mode.



Yamaha Eco-Label

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

Powered by music

Enter a New World of Sound with Dolby Atmos® and DTS:X™

These sound technologies transport you from an ordinary moment into an extraordinary experience with captivating, multidimensional sound that fills your room with amazing richness and depth. These sound technologies allow for music, people and objects to come alive in breathtaking detail and flow in precise choreography all around you, making you feel like you are right in the middle of the story.



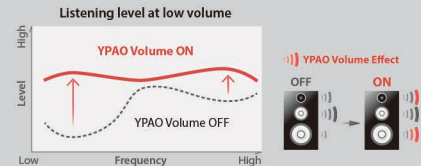
MusicCast Compatibility with Zone 2 Link Master Function

MusicCast employs a high performance wireless network to deliver music and audio enjoyment. It can stream digital music content from your smartphone, PC or NAS to other MusicCast devices and external devices such as a TV or Blu-ray Disc™ player connected to the RX-V683. In addition, Zone 2 Link Master lets you enjoy the sound playing in Zone 2 in other MusicCast rooms, even when the main zone is powered off.



YPAO™ R.S.C (Reflected Sound Control) 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.



Main Specifications

Audio Section	
Rated Output Power (8 ohms, 20 Hz-20 kHz, 0.06 % THD, 2-ch driven)	
Front L/R	90 W + 90 W
Rated Output Power (4 ohms, 1 kHz, 0.9 % THD, 1-ch driven [European Model])	
Front L/R	150 W + 150 W
Maximum Effective Output Power (8 ohms, 1 kHz, 10 % THD, 1-ch driven, JEITA)	
Front L/R	150 W + 150 W
Centre	150 W
Surround L/R	150 W + 150 W
Surround Back L/R	150 W + 150 W
Dynamic Power/Ch (Front L/R, 8/6/4/2 ohms)	125 / 165 / 190 / 235 W

General

Standby Power Consumption	
HDMI Control off, Standby Through off	0.1 W
HDMI Control, Standby Through On, Network Standby Off	1.1 W
Network Standby on	1.8 W (Wireless)
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 lbs.



European Model

Extensive Connections

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*3 (FM / AM)	1 / 1
Optical Digital	2
Coaxial Digital	2
Analogue Audio*1 (incl. Mini Jack Input and Phono)	5
Component Video (Audio Input Assignable)	1
Composite Video*1	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.

Outputs	
HDMI (HDCP2.2 compatible)	1
Speaker*4/*5/*6 (without subwoofer)	7-ch / 9 ter
Subwoofer	2 x mono
Headphone Jack*1	1

*4 Banana-plug compatible speaker terminals are available in some areas.

*5 Assignable for surround back L/R to bi-amp (front L/R) or Zone 2.

*6 Extra speaker terminals are assignable to Zone 2 or Presence.

Others	
Zone 2 Audio Out	1
Remote In / Out	1 / 1
+12V / 0.1A Trigger Out	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® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Yamaha Corporation is under licence. Other trademarks and trade names are those of their respective owners. • The Wi-Fi CERTIFIED logo is a certification mark of the Wi-Fi Alliance. The Wi-Fi Protected Setup Identifier Mark is a mark of the Wi-Fi Alliance. "Wi-Fi," "Wi-Fi Protected Setup," "Wi-Fi Direct" and "Miracast" are marks or registered marks of the Wi-Fi Alliance. • Spotify and Spotify logo are registered trademarks of the Spotify Group. • Pandora and Pandora Internet Radio logo are registered trademarks or trademarks of Pandora Media, Inc. in the United States and/or other countries. • Napster and the Napster logo are trademarks and registered trademarks of Rhapsody International. • Juke and Juke logo are registered trademarks of Media-Saturn-Holding GmbH. • DLNA™ and DLNA CERTIFIED™ are trademarks or registered trademarks of Digital Living Network Alliance. All rights reserved. Unauthorized use is strictly prohibited. • Dolby, Dolby Atmos, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories. • For DTS patents, see <http://patents.dts.com>. Manufactured under licence from DTS, Inc. DTS, the Symbol, DTS in combination with the Symbol, DTS:X, and the DTS:X logo are registered trademarks or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved. • HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. • 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.