

7.2-channel AV receiver with superb sound quality and the latest network functions for an amazing AV experience.



Dolby Atmos® and DTS:X™.

Experience the latest developments in cinema surround sound - with astonishing realism and unsurpassed performance - from the biggest names in sound technology.

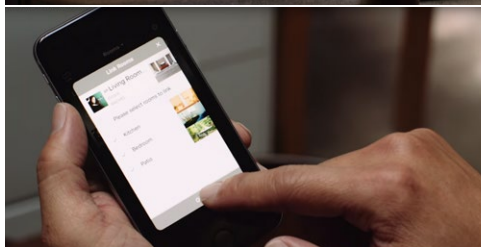
[Learn More >](#)



A World of Entertainment.

With MusicCast, access an impressive variety of entertainment sources and setup configurations at the touch of a button.

[Learn More >](#)



Intuitively Simple to Use.

Simple and straightforward operation, whether using specially designed compatible apps, or in conjunction with Amazon Alexa voice control devices.

[Learn More >](#)

- 7-channel powerful surround sound
- --- 80 W per channel (6 ohms, 20 Hz-20 kHz, 0.09% THD, 2-ch driven)
- --- 115 W per channel (6 ohms, 1 kHz, 0.9% THD, 1-ch driven)
- --- 145 W per channel (6 ohms, 1 kHz, 10% THD, 1-ch driven)
- Ability to add wireless surround speaker/s* (*MusicCast 20 or MusicCast 50)
- Dolby Atmos® and DTS:X™ support
- Amazon Alexa voice control compatibility* (*Availability varies by region)
- Anti Resonance Technology (A.R.T.) Wedge
- Aluminium front panel

- YPAO™ sound optimisation
- Music streaming services built-in
- HDMI® (4 in / 1 out) with Dolby Vision™ and Hybrid Log-Gamma
- Phono input for vinyl playback



The RX-A680 offered with black and titanium finish available in some areas.



Explore Every Dimension

Dolby Atmos® and DTS:X™

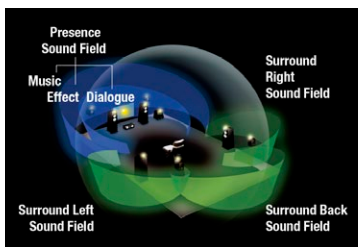
Compatibility with these amazing sound technologies transports you from an ordinary moment into an extraordinary experience. They deliver breathtakingly rich and realistic surround sound, positioning and moving individual sounds to any virtual point in your room, including objects moving overhead. Experience the overwhelming realistic movement and immersion in videos — right in your home theatre room.



Immerse Yourself in the Sound

CINEMA DSP 3D

This unique Yamaha proprietary sound field creation technology, was created by combining measured sound field data with digital signal processing. Yamaha collected sound field data from famous concert halls and music clubs around the world, utilising its wealth of experience in the fields of concert hall design, public address and mixing. By digitising that vast trove of information and incorporating it into dedicated LSI devices, it effectively reproduces the spaces of those concert halls on home equipment. Immerse yourself in the astounding realism of your movies, and enter a world of profound theatre sound.



Ensuring Sound Quality

Anti Resonance Technology Wedge

The Anti Resonance Technology (A.R.T.) Wedge is a fifth foot in the centre of the unit. It dampens vibrations from the power transformer, power transistors and heat sinks, as well as vibrations that might be caused by the sound from the speakers — providing dynamic sound and focused, accurate reproduction.



Easy Sound Optimisation

YPAO™

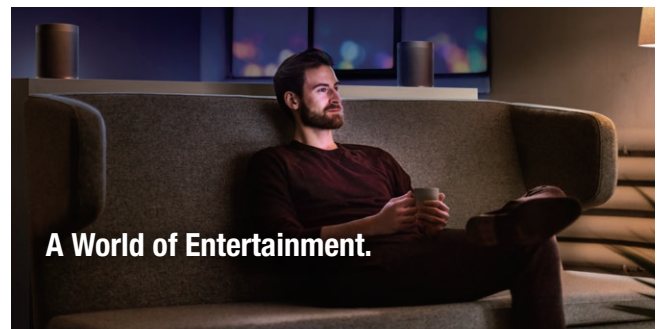
YPAO (Yamaha Parametric room Acoustic Optimizer) analyses the room acoustics and your system, then precisely adjusts various audio parameters to provide the best sound for your room. Simply by placing the supplied microphone at your listening position and switching YPAO on, the system is automatically tuned for optimum performance in your home theatre room.



Optimum Performance

High-quality Parts

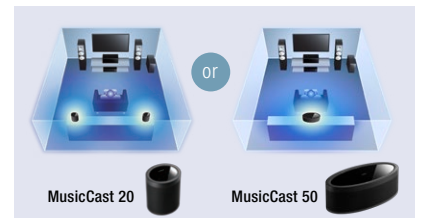
Yamaha AV receivers feature fully discrete power amplifiers to minimise distortion and adopt independent pure power supplies for the analogue and digital circuitry. They also feature ultra-high performance with 384 kHz / 32-bit DACs, also with Independent power supplies, for reproducing absolutely all the audio in High Resolution sound sources without noise. A new high sound quality IC is employed for volume control and large heat sinks suppress vibration. Down to every detail, these AV receivers are designed with full emphasis on the highest possible sound quality.



Free and Easy Placement

Wireless Surround Speakers

Combine this AV receiver with the MusicCast 50 or MusicCast 20 wireless streaming speaker and enjoy the amazing convenience of creating a home theatre with wireless rear speakers. What's more, you get stunningly realistic sound with a clean, clutter-free setup. Easily turn your current living room into a special entertainment environment where you can fully enjoy movies and music.



Related Products

- MusicCast 50 • MusicCast 20 • MusicCast SUB 100

Multi-room Audio

MusicCast

MusicCast takes the headache out of multi-room audio. Simply connect all MusicCast devices to the same network and start sharing audio throughout the home. Take MusicCast for a test drive by downloading the free MusicCast app and using its demo mode.



A World of Music

Streaming Services

Explore a world of music with music streaming services* built-in. Syncing your playlists and song likes from your smart phone or computer to the RX-A680, music streaming services make it impossibly easy to either listen to your faves or discover new music.

* Music streaming service availability varies by region.

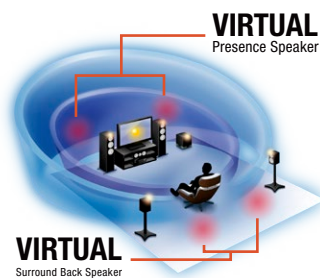


Easily Experience 9-channel Realism

Virtual Speaker Technology

With the power of CINEMA DSP 3D, the Virtual Presence Speaker function makes full use of centre and surround speakers to create audible information from where presence (height) speakers are normally installed. In addition, this model also features a Virtual Surround Back Speaker function. Even without using surround back speakers, you can experience more natural surround sound thanks to CINEMA DSP 3D playback — giving you the virtual equivalent of up to 9.1-channel surround, even with a 5.1-speaker configuration.

* Dolby Atmos and DTS: X signals cannot be used with these virtual features.



The Joys of Vintage Vinyl

Phono Input

This AV receiver provides phono input terminals, letting you connect a turntable and enjoy music from your vinyl collection.

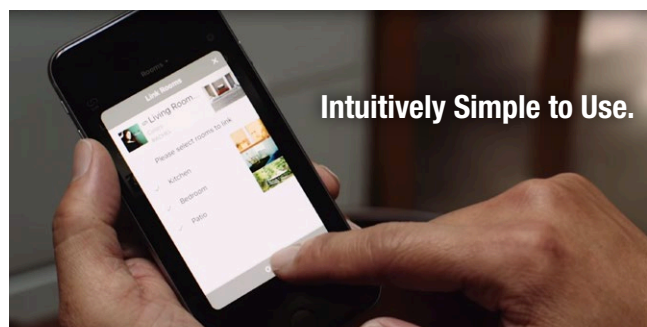


Enjoy Digital Radio

DAB/DAB+ Tuner

Digital Audio Broadcasting capability, with DAB and the enhanced DAB+, offers a large selection of radio stations with high sound quality. Other benefits include automatic selection of available stations from a convenient list, and helpful information display, including station name and music genre.

* Availability of DAB / DAB+ tuner function varies by region.



Intuitively Simple to Use.

Let's Talk

Alexa on MusicCast

"Alexa, ask MusicCast to play Favourite 1 in the Kitchen." With Alexa voice control integration, all you have to do is ask. The RX-A680 name offers full compatibility with Amazon's range of voice control devices. Welcome to the smart home.

* Availability of voice command control via Amazon Alexa varies by region.



Easy Operation, Detailed Settings

AV Controller App

This easy-to-use app lets you conveniently and 'smartly' control your AV receiver's power, volume, input selections, DSP modes — and much, much more — from an iOS or Android™ device. You can also use as many as 23 different languages and customise the interface by hiding unused icons and renaming functions. A tablet version is also available.



Smartphone

Tablet

Install with Ease

AV Setup Guide

No worries, no confusion. Use this special app and get expert assistance with cable connections between the AV receiver and source devices. It even guides you through various other settings such as speaker connections, TV and source device connections and power amplifier assignments.



Other Features

• Bi-amp Connection Even Higher Quality Sound

This AV receiver features bi-amping capability, driving the treble and bass ranges of the front speakers (L, R) with independent amplifiers, making it possible to enjoy even higher quality sound from the front channels — an important consideration in home theatre setups.

• Music Enhancer Brilliant and Lively

The Compressed Music Enhancer from Yamaha is now optimised for Bluetooth audio transmissions to ensure that your music will have vivid, energetic sound quality during wireless playback.

• On-screen Display High Definition, Comfortable Viewing

The latest graphical user interface from Yamaha has a high-resolution display with clear, easy-to-use menus and includes a selectable status bar that shows input source, volume level, DSP mode and audio format. The GUI provides a choice of eight languages: English, French, German, Spanish, Italian, Russian, Japanese and Chinese and can be displayed over both normal and 3D pictures.

• Eco Mode Save Energy by 20%

When ECO Mode is turned on it can reduce power consumption by about 20 percent*, thanks to an advanced energy saving design. *Compared to power consumption when ECO mode is off (Yamaha measurement).

Amplifier Section	Channel	7.2
	Rated Output Power (1kHz, 1ch driven)	115 W (6 ohms, 0.9% THD)
	Rated Output Power (20Hz-20kHz, 2ch driven)	80 W (6 ohms, 0.09% THD)
	Maximum Effective Output Power (1kHz, 1ch driven)(JEITA)	145 W (6 ohms, 10% THD)
	Dynamic Power per Channel (8/6/4/2 ohms)	- / 140 / 170 / 190 W
Surround Sound Processing	CINEMA DSP	Yes (3D)
	DSP Programs	17
	Dialog Level Adjustment	Yes
	Virtual Presence Speaker	Yes
	Virtual Surround Back Speaker	Yes
	Dialogue Lift	Yes
	SILENT CINEMA / Virtual CINEMA DSP	Yes (Virtual CINEMA FRONT)
	Dolby Atmos	Yes
	Dolby TrueHD	Yes
	Dolby Digital Plus	Yes
	Dolby Surround	Yes
	DTS:X	Yes
DTS-HD Master Audio	Yes	
Audio Features	File Format	MP3 / WMA / MPEG-4 AAC: up to 48 kHz / 16-bit, ALAC: up to 96 kHz / 24-bit, FLAC: up to 192 kHz / 24-bit, WAV / AIFF: up to 192 kHz / 32-bit, DSD: up to 11.2 MHz
	Compressed Music Enhancer	Yes (incl. enhancer for Bluetooth®)
	YPAO sound optimization	Yes
	Adaptive DRC (Dynamic Range Control)	Yes
	Initial Volume & Maximum Volume Setting	Yes
	A.R.T. Wedge	Yes
	Bi-amp capability	Yes
	Audio Delay	Yes (0-500 ms)
DA Converter	Burr-Brown 384 kHz / 32-bit DAC x 4	
Video Features	4K Ultra HD Pass-through and upscaling	Yes (4K / 60p, 4:4:4)
	HDMI 3D passthrough	Yes
	HDMI eARC	Yes (via future firmware update)
	HDMI Audio Return Channel	Yes
	HDMI upscaling	Yes (HDMI® to HDMI)
	Deep Color/x.v.Color/24Hz Refresh Rate / Auto Lip-Sync	Yes

Connectivity	MusicCast Surround	Yes
	HDMI Input/Output	4 / 1 (HDCP2.2, HDR10 / Dolby Vision / HLG and BT.2020 compatible)
	HDMI CEC	Yes
	USB Input	USB Memory, Portable Audio Player
	Network Port	Yes
	Wi-Fi	Yes (2.4 / 5 GHz)
	AirPlay	Yes
	Bluetooth	Yes (SBC / AAC)
	Front AV Input	USB / Mini Jack
	Digital Audio Input/Output: Optical	1 / 0
	Digital Audio Input/Output: Coaxial	2 / 0
	Analog Audio Input/Output	5 (front 1) / 0
	Composite Video Input/Output	3 / 1
	Preout	Subwoofer (2 x mono)
Headphone Output	1	
Tuner Section	FM/AM Tuner	Yes (FM only)
	DAB Tuner	Yes (Availability varies by region.)
User Interface	On-screen display	Yes (colour OSD)
	SCENE	SCENE (4 sets)
	App Control	Yes (iPhone / iPad / Android phone / tablet)
	Remote Control Unit	Yes
Zone Control	Zone B Output	Yes
General	Standby Power Consumption (IR only)	≤0.1W
	Auto Power Standby	Yes
	ECO mode	Yes
	Dimensions (W x H x D)	435 x 161 x 330 mm (with antenna: 435 x 225.5 x 330 mm); 17-1/8" x 6-3/8" x 13" (with antenna: 17-1/8" x 8-7/8" x 13")
	Weight	8.3 kg; 18.3 lbs.