

7.2-channel AV receiver with advanced features and enhanced functionality, including two HDMI® outputs and MusicCast Surround capability.



## 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 >](#)



## Your Hub of Home Entertainment.

Want to connect a turntable for your vinyl collection? Add a second TV or projector for the ultimate movie night? Done. It's never been easier to expand your home entertainment setup.

[Learn More >](#)



## Effortlessly Sophisticated.

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

[Learn More >](#)

- 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 (4 ohms, 1 kHz, 0.9% THD, 1-ch driven)
- --- 150 W per channel (8 ohms, 1 kHz, 10% THD, 1-ch driven)
- Ability to add wireless surround speaker/s\* (\*MusicCast 20 or MusicCast 50)
- YPAO™ Reflected Sound Control (R.S.C.) sound optimisation
- Amazon Alexa voice control compatibility\* (\*Availability varies by region)
- MusicCast multi-room technology

- Music streaming services built-in
- HDMI® (5 in / 2 out) with Dolby Vision™ and Hybrid Log-Gamma
- Phono input for vinyl playback



The RX-V685 offered with black and titanium finish available in some areas.



## Explore Every Dimension

Dolby Atmos® and DTS:X™

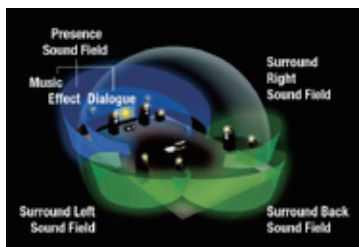


Compatibility with these amazing sound technologies transports you from an ordinary moment into an extraordinary experience. They deliver breathtakingly rich and realistic surround sound, positioning and moving individual sounds to any virtual point in your room, including objects moving overhead. Experience 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 digitizing 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.



## Professional-grade Sound Optimisation

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

YPAO-R.S.C. analyses room acoustics and measures various speaker characteristics, then calibrates audio parameters to achieve optimum sound. It employs Reflected Sound Control to correct early reflections and deliver studio-quality sound. It also provides DSP Effect Normalisation, which varies the CINEMA DSP parameters according to the reflected sounds. It's like having a professional installer calibrate your system, creating an ideal listening space with perfectly balanced sound.



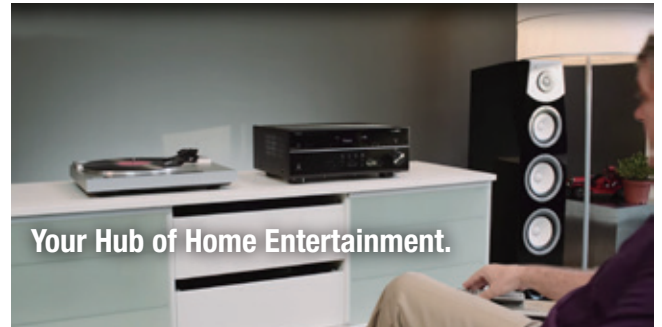
## Optimum Performance

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



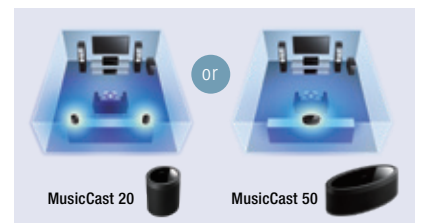
supplies, for reproducing absolutely all the audio in High Resolution sound sources without noise. A new high sound quality IC is employed for volume control and large heat sinks suppress vibration. Down to every detail, these AV receivers are designed with full emphasis on the highest possible sound 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-V685, music streaming services make it impossibly easy to either listen to your faves or discover new music.

\* Music streaming service availability varies by region.

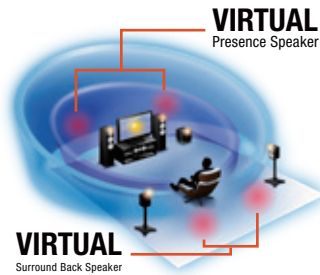


## Easily Experience 9.1-channel Realism

### 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.

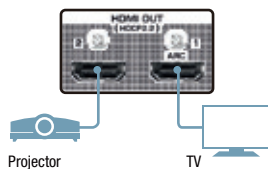
\* Dolby Atmos and DTS: X signals cannot be used with these virtual features.



## Convenient Enjoyment

### Two HDMI Outputs

Since the RX-V685 has two HDMI output terminals, simultaneous connection to the TV and LCD projector is possible. Which means you can use your TV as usual but use the projector for your favourite movies and special programming — easily and without having to change any connections. The built-in HDMI functionality is of the latest specifications, corresponding also to HDR (Dolby Vision Compatible, Hybrid Log-Gamma), 4K / 60p passthrough & 4K upscaling, and so on.



## 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.



## 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-V685 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

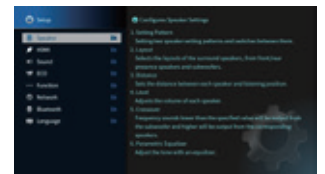
This easy-to-use app lets you conveniently and 'smartly' control your AV receiver's power, volume, input selections, DSP modes — and much, much more — from an iOS or Android™ device. You can also use as many as 23 different languages and customise the interface by hiding unused icons and renaming functions.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



## Easy to Use and Multilingual

### Advanced Graphical User Interface

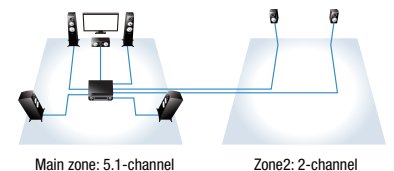
The latest graphical user interface from Yamaha has a high-resolution display with clear, easy-to-use menus and includes a selectable status bar that shows input source, volume level, DSP mode and audio format. The GUI provides a choice of eight languages: English, French, German, Spanish, Italian, Russian,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



## Enjoy in Two Rooms

### Multi-zone Function (Zone2)

Featuring Zone2 compatible speaker terminals, this system can send the same AV contents playing the main room for playing in another room via HDMI. For example, if you've got an HDMI compatible TV set and home theatre installed in your bedroom or kitchen, you can go to that other room and keep watching the programme or movie without interruption.



## 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.

### • AV Setup Guide Install with Ease

This special app assists you with cable connections between the AV receiver and source devices. Additionally, it guides you through various settings such as speaker connections, TV and source device connections and power amplifier assignments.

### • 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).

<b>Amplifier Section</b>	<b>Channel</b>	7.2
	<b>Rated Output Power (1kHz, 1ch driven)</b>	150 W (4 ohms, 0.9% THD)
	<b>Rated Output Power (20Hz-20kHz, 2ch driven)</b>	90 W (8 ohms, 0.06% THD)
	<b>Maximum Effective Output Power (1kHz, 1ch driven)(JEITA)</b>	150 W (8 ohms, 10% THD)
	<b>Dynamic Power per Channel (8/6/4/2 ohms)</b>	125 / 165 / 190 / 235 W
<b>Surround Sound Processing</b>	<b>CINEMA DSP</b>	Yes (3D)
	<b>DSP Programs</b>	17
	<b>Dialog Level Adjustment</b>	Yes
	<b>Virtual Presence Speaker</b>	Yes
	<b>Virtual Surround Back Speaker</b>	Yes
	<b>Dialogue Lift</b>	Yes (no presence speakers required)
	<b>SILENT CINEMA / Virtual CINEMA DSP</b>	Yes (Virtual CINEMA FRONT)
	<b>Dolby Atmos</b>	Yes
	<b>Dolby TrueHD</b>	Yes
	<b>Dolby Digital Plus</b>	Yes
	<b>Dolby Surround</b>	Yes
	<b>DTS:X</b>	Yes
<b>DTS-HD Master Audio</b>	Yes	
<b>Audio Features</b>	<b>File Format</b>	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
	<b>Pure Direct</b>	Yes (with video on mode)
	<b>Compressed Music Enhancer</b>	Yes (incl. enhancer for Bluetooth®)
	<b>YPAO sound optimization</b>	Yes (R.S.C)
	<b>YPAO Volume</b>	Yes
	<b>Adaptive DRC (Dynamic Range Control)</b>	Yes
	<b>Initial Volume &amp; Maximum Volume Setting</b>	Yes
	<b>Bi-amp capability</b>	Yes
	<b>Audio Delay</b>	Yes (0-500 ms)
	<b>DA Converter</b>	Burr-Brown 384 kHz / 32-bit DAC x 4 for main zone
<b>Video Features</b>	<b>4K Ultra HD Pass-through and upscaling</b>	Yes (4K / 60p, 4:4:4)
	<b>HDMI 3D passthrough</b>	Yes
	<b>HDMI eARC</b>	Yes (via future firmware update)
	<b>HDMI Audio Return Channel</b>	Yes
	<b>HDMI upscaling</b>	Yes (Analogue to HDMI® / HDMI to HDMI)
	<b>Deep Color/x.v.Color/24Hz Refresh Rate / Auto Lip-Sync</b>	Yes

<b>Connectivity</b>	<b>MusicCast Surround</b>	Yes
	<b>HDMI Input/Output</b>	5 / 2 (HDCP2.2, HDR10 / Dolby Vision / HLG and BT.2020 compatible)
	<b>HDMI CEC</b>	Yes (SCENE, Device Control)
	<b>USB Input</b>	USB Memory, Portable Audio Player
	<b>Network Port</b>	Yes
	<b>Wi-Fi</b>	Yes (2.4 / 5 GHz)
	<b>AirPlay</b>	Yes
	<b>Bluetooth</b>	Yes (SBC / AAC)
	<b>Front AV Input</b>	USB / Mini Jack
	<b>Digital Audio Input/Output: Optical</b>	2 / 0
	<b>Digital Audio Input/Output: Coaxial</b>	2 / 0
	<b>Analog Audio Input/Output</b>	4 (front 1) / 0
	<b>Phono Input</b>	Yes
	<b>Component Video Input/Output</b>	1 / 0
	<b>Composite Video Input/Output</b>	1 / 0
	<b>Preout</b>	2,2-ch
<b>Headphone Output</b>	1	
<b>Tuner Section</b>	<b>FM/AM Tuner</b>	Yes
<b>User Interface</b>	<b>On-screen display</b>	Graphical User Inter face
	<b>SCENE</b>	SCENE PLUS (8 sets)
	<b>App Control</b>	Yes (iPhone / iPad / Android phone / tablet)
	<b>Web Browser Control</b>	Yes
	<b>Remote Control Unit</b>	Yes
<b>Zone Control</b>	<b>Zone 2 Audio Output</b>	Preout
	<b>Powered Zone</b>	Zone 2
	<b>+12V Trigger Output</b>	1
	<b>Remote (IR) Input/Output</b>	1 / 1
	<b>Party Mode</b>	Yes
<b>General</b>	<b>Standby Power Consumption (IR only)</b>	≤0.1W
	<b>Auto Power Standby</b>	Yes
	<b>ECO mode</b>	Yes
	<b>Dimensions (W x H x D)</b>	435 x 171 x 378 mm (with antenna up: 435 x 248 x 378 mm); 17-1/8" x 6-3/4" x 14-7/8" (with antenna up: 17-1/8" x 9-3/4" x 14-7/8")
	<b>Weight</b>	10.5 kg; 23.1 lbs.