7.2-channel model supports MusicCast to ensure the widest possible range of entertainment choices.

*Streaming service availability depends on regions. *TIDAL / Deezer will be available via future firmware update.

Audio Features

- 7-channel powerful surround sound
  80 W per channel (8 ohms, 20 Hz–20 kHz, 0.09 % THD, 2-ch driven)
  115 W per channel (8 ohms, 1 kHz, 0.9 % THD, 1-ch driven)
  145 W per channel (6 ohms, 1 kHz, 10 % THD, 1-ch driven)
- Dolby Atmos® and DTS:X™ support
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce Vibration
- Aluminum front panel offers visual and aural benefits
- Advanced design feet enhance strength and vibration resistance NEW
- Selected high quality parts to achieve optimum audio performance
- Full discrete amp configuration
- Direct Mode for high quality sound reproduction
- Low jitter PLL circuitry helps optimize sound imaging
- Assignable amplifiers for front speaker bi-amp connection
- 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*®

Video Features

- Latest HDMI® (4 in / 1 out) with 4K Ultra HD Full Support (4K / 60p [4:4:4]), HDR Video including Dolby Vision and Hybrid Log-Gamma, and BT.2020 pass-through NEW
  *Dolby Vision and Hybrid Log-Gamma will be available via future firmware update.
- 4K video upscaling from HDMI® input NEW

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.
  - Wireless Direct connects a mobile device directly without home network
  - 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®*, Pandora®*, Tidal*, Deezer*) 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

- Gapless playback compatibility allows play without interruption
- Front panel USB Digital Connection for USB thumbdrives
- Multi-language color OSD capable of displaying cover art (English, German, French, Spanish, Russian, Italian, Japanese and Chinese)
- HDMI® CEC with versatile control from AV Receiver remote control
- YPAO™ sound optimization for automatic speaker setup
- Ability to change HDMI® input while in Standby Through mode
- Audio Delay for adjusting Lip-Sync (0–500ms)
- Internet Radio Bookmark
- Video out feature (for TUNER / USB / NET / *Bluetooth* / AUDIO / AUX input)
- Zone B speaker output provides 2-channel sound in a second room
- 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 programs)
- Compressed Music Enhancer with CINEMA DSP
- Dialogue Lift ensures that dialogue comes from the center 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
- Virtual Surround Back Speaker for playing 7.1-channel content with a 5.1-channel system
- 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
- Two subwoofer outputs (simultaneous outputs)

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.

AV Receiver
RX-A670

NEW PRODUCT BULLETIN

Optimum Audio Quality Design Concept

The AVENTAGE line of high-performance AV receivers is based on the audio design concept of "uncompromising excellence." By combining traditional and innovative technologies, and including superior low jitter clock for network sources, selective audio parts, an A.R.T. Wedge foot and an aluminum front panel, every factor that affects sound quality is optimized for superb musical performance.

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.

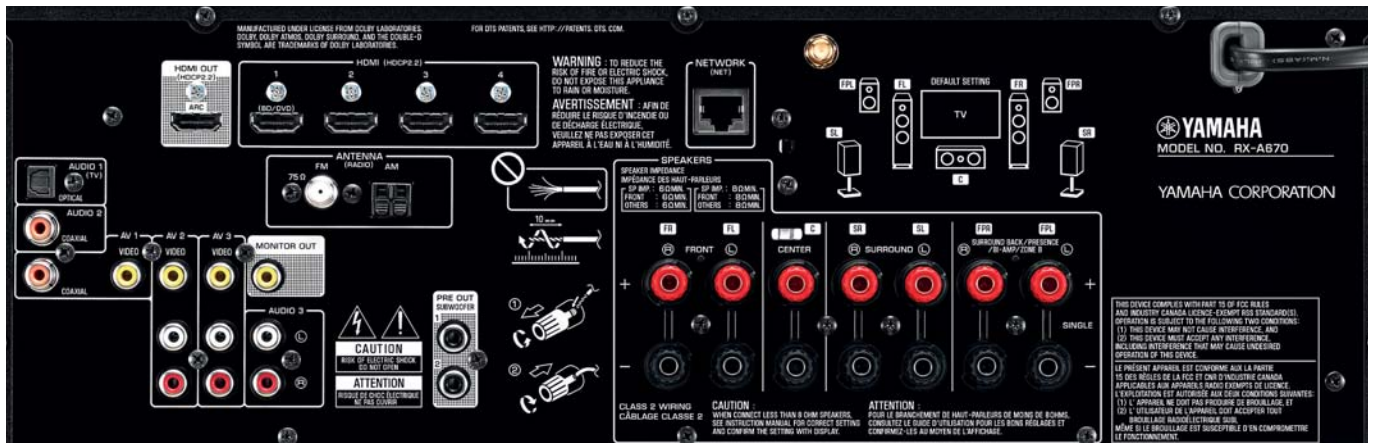## MusicCast Expands Entertainment Possibilities

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 in your home. It can also share the music from external devices such as a TV or Blu-ray Disc™ player connected to the RX-A670. Audio content from *Bluetooth*®-connected smartphones or tablets can also be streamed to MusicCast devices in multiple rooms.

Main Specifications

Audio Section

Rated Output Power (8 ohms, 20 Hz-20 kHz, 0.09 % THD, 2-ch driven)	
Front L/R	80 W + 80 W
Rated Output Power (8 ohms, 1 kHz, 0.9 % THD, 1-ch driven)	
Front L/R	115 W + 115 W
Center	115 W
Surround L/R	115 W + 115 W
Surround Back L/R	115 W + 115 W
Maximum Effective Output Power (6 ohms, 1 kHz, 10 % THD, 1-ch driven)	
Front L/R	145 W + 145 W
Center	145 W
Surround L/R	145 W + 145 W
Surround Back L/R	145 W + 145 W
Dynamic Power/Ch (Front L/R, 8/6/4/2 ohms)	120 / 140 / 170 / 190 W

General

Standby Power Consumption	
HDMI Control, 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)	17-1/8" x 6-3/8" x 13" (with antenna up: 17-1/8" x 8-7/8" x 13") 435 x 161 x 330 mm (with antenna up: 435 x 225.5 x 330 mm)
Weight	18.3 lbs.; 8.3 kg

Extensive Connections

Inputs

HDMI (Audio Input Assignable, HDCP2.2 compatible)	4
Network (Ethernet / Wi-Fi)	1 / 1
USB*1	1
Radio Antenna (FM / AM)	1 / 1
Optical Digital	1
Coaxial Digital	2
Analog Audio*1 (incl. Mini Jack Input)	4
Composite Video (Audio Input Assignable)*1	3

Outputs

HDMI (HDCP2.2 compatible)	1
MONITOR OUT (Composite)	1
Speaker*2 (without subwoofer)	7-ch
Subwoofer	2
Headphone Jack*1	1

*1 Including front panel terminals.
*2 Assignable for surround back L/R to Presence (L/R) or bi-amp (front L/R) or ZONE B

• 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 license. 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. • TIDAL and TIDAL logo are registered trademark of Aspiro AB in the European Union and other countries. • Deezer and Deezer logo are international trademarks of Deezer S.A., registered in France and other countries. • 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 license 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.

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