<u>ONKYO</u>

TX-RZ620 7.2-Channel Network A/V Receiver



Putting More Heart Into Home Theater

The TX-RZ620 serves smooth and confident multichannel sound with a unique Dynamic Audio Amplification system tuned for wide-spectrum 5 Hz-100 kHz reproduction. Dolby Atmos® and DTS:X™ immerse you in heart-pounding sound as 4K movies burst from your TV screen. HDMI® now supports pass-through of HDR10, HLG (Hybrid Log-Gamma), Dolby Vision™, and BT.2020 for incredible picture realism. You can play music from streaming services including Spotify[®], TIDAL, Tuneln, Deezer, and Pandora[®], as well as Hi-Res Audio via music server. Network and analog* sources can be mirrored on optional wireless speakers over FireConnect™ powered by Blackfire, and everything needed to set the mood is inside the Onkyo Controller app. With patented VLSC[™] filtering and AKM 382 kHz/32-bit DAC, your pair of quality front speakers will unveil the true soul of stereo. Ready to fit your home automation system, this muscular receiver delivers upscale entertainment at an accessible price.

* Transmission of signals input via external analog audio terminals is enabled with a future firmware update

HIGHLIGHTS

- Supports 5.2.2-Channel Dolby Atmos[®] and DTS:X[™] Playback
- HDMI[®] 7 In (I Front^{*1}) / Main Out, and Sub Out^{*2} Supporting 4K/60 Hz, HDR10, Dolby Vision[™], HLG, BT.2020, and HDCP 2.2 Pass-through
- Dynamic Audio Amplification with 5 Hz–100 kHz Frequency Response • 384 kHz/32-bit DAC and VLSC[™] Filtering for
- Superior Clarity Ready for Chromecast built-in^{*3} and DTS Play-Fi^{®*3}
- 5 GHz/2.4 GHz Wi-Fi[®], AirPlay, Spotify, TIDAL, Deezer, Pandora®, Tuneln*4
- FireConnect^{™+5} Wireless Multi-room Audio

ADVANCED FEATURES

- HDMI Terminals Supporting HDR10, Dolby Vision, HLG, BT.2020, 4K/60 Hz Pass-through and HDCP 2.2
- Supports 5.2.2-Channel Dolby Atmos Playback and Dolby Surround Upmixing
- DTS:X Object-based Audio Reproduction and DTS Neural:X[™] Upmixing for Legacy Soundtracks
- AccuEO Room Acoustic Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Intuitive Operation*6
- Stable Dual-band 5 GHz/2.4 GHz Wi-Fi[®] Connectivity
- · Chromecast built-in Wireless Audio Streaming Platform • DTS Play-Fi Shares Music from Apps to Receiver and Wireless Speakers
- AirPlay Audio Streaming from iTunes and iPad, iPhone, and iPod touch
- Supports Hi-Res Audio Including DSD 5.6 MHz/2.8 MHz^{#7}, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD^{*8}
- Supports Spotify, TIDAL, TuneIn, Pandora, and Deezer Services
- FireConnect[™] Multi-room Distribution of Network and Analog Audio Sources[™] to Compatible Wireless Speakers

- Powered Zone 2 Speaker Outputs and Zone 2 Pre-/Line Output with Dedicated DAC Supporting Digital*10 and Analog Audio Playback
- Bluetooth[®] Wireless Technology for Mobiles, Laptops, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Supports Front L/R Channel Bi-Amping in 5.2-Ch Speaker Layout
- Advanced Music Optimizer Improves Compressed Digital Audio Quality, Including Bluetooth Audio
- 480i De-interlacing (480i to 480p) via HDMI for Legacy Video Formats

AMPLIFIER FEATURES

- 100 W/Ch (8 Ohms, 20 Hz-20 kHz, 0.08% THD,
- 2 Channels Driven, FTC); 215 W/Ch (6 Ohms, I kHz, 10% THD, I Channel Driven)
- Dynamic Audio Amplification System with 5 Hz–100 kHz Frequency Response
- High-current Power to Drive Large Speakers with
- 4-Ohm Resistance • H.C.P.S. (High Current Power Supply) El Transformer
- VLSC (Vector Linear Shaping Circuitry) High-frequ Noise-filtering Technology (Front L/R Channels)
- Non-Phase-Shift Amplification Circuitry for Clarity and Detail
- Discrete Output Stage Circuitry for Low Distortion Optimum Gain Volume Circuitry

PROCESSING FEATURES

- Dolby Atmos and DTS:X Reproduction (5.2.2 Channels) • HDMI Support for 4K/60 Hz, HDR10, HLG, Dolby Vision, 3D,
- Audio Return Channel, DeepColor[™], x.v.Color[™], LipSync, Dolby Atmos, Dolby TrueHD, DTS:X, DTS-HD Master Audio[™], DSD, DVD-Audio, Super Audio CD (SACD), Multichannel PCM, and CEC • AKM (AK4458) 384 kHz/32-bit Multichannel DAC
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio
- 32-bit Digital Signal Processing
- · DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Theater-Dimensional Virtual Surround Function Direct Mode for Audio Reproduction Close to Original Source Quality
- Front L/R Tone Controls (Bass/Treble) and Independent Zone 2
 Tone/Balance Controls

CONNECTION FEATURES

- 7 HDMI Inputs (I Front) and 2 Outputs (I Main Out, I Sub Out)
- Powered USB Port (5 V, 1 A) for Audio Playback
- 2 Composite Video Inputs
- 2 Component Video Inputs
- 3 Digital Audio Inputs (2 Optical and I Coaxial)
- Phono Input (MM) and Equalizer for Turntable

- Control Integration

OTHER FEATURES

- A/V Sync Control (Up to 500 ms in 5 ms Steps at 48 kHz)
- Quick Setup Guide via GUI and Easy Connection Diagram on
- Large Input Selector Buttons and Front Panel Tone/Balance
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- Optional Rack-mounting Kit (IRK-155-3D)
- Full-sized Simple Remote Control

* Tansated Simple Nethode Control of *1 HDMI Front Input does not support 4K/60/44:4/124-bit video, HDR10, HLG, Dolby Vision, or B1:2020, *2 HDMI Sub Out does not support ARC or CEC. *3 Requires a future firmware update. *4 Availability of services may vany with region. Please confirm before purchase. Subscription may also be required. *5 FireConnect" is a technology based on Blackfire provided by Blackfire Research Corp., USA Sampling rates of 44.1 kHz and 48 kHz are supported *6 for IOS and Andord" devices. Please check App Store or Google Play" for device and OS requirements. *7 DSD not supported over wireless LAN, *8 Dolby TrueHD playback via USB input only, *9 Sharing audio from external analog inputs depends on the model and is enabled with a future firmware update. *10 Audio via HDMI inputs excluded.

- 6 Analog Audio Inputs, 1 Stereo 1/4" (3.5 mm) Analog Input (Front)
- 2 Subwoofer Pre-Outs
- RS-232 Serial Input for External Control Commands
- 1/4" (6.35 mm) Headphone lack (Front)
- Banana-plug-compatible Speaker Posts with Screw Knobs
- Speaker Setup Mic Input (Front)
- 12 V Trigger Out (Main, 100 mA) for External Component
- IR Input for Remote Control

- Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/180/200 Hz)
- Graphical User Interface with Overlaid On-Screen Display (OSD) via HDMI
- Rear Panel
 - Controls
 - Economical HDMI Pass-through and Network Standby Functions

Introducing the RZ Series

Our premium RZ Series A/V receivers deliver a significant boost to the dynamism, detail, and accuracy of music and movie soundtracks for a listening experience that packs

deep emotional impact. The TX-RZ620 features high quality components, such as large custom capacitors, to provide high instantaneous current for fast transients and ultra-wideband frequency response down to 5 Hz. Discrete non-phase-shift amp circuits clearly focus the audio image and cut distortion even at floor-shaking volumes.



Customized high-current capacitors

Unleash Dolby Atmos[®] or DTS:X[™] Home Theater

Object-based soundtracks allow independently mixed sound to play through any speaker in your system, moving above and around you with breathtaking realism. The TX-RZ620 reproduces 5.2.2-channel Dolby Atmos or DTS:X formats, with AccuReflex correcting the phase of direct and indirect sounds

for cohesive audio imaging with Dolby Atmos-enabled speakers.



Chromecast built-in

Play-Fi

music is home

dts

Upmixing Solutions for Legacy Soundtracks

DTS Neural: X^{\tiny M} identifies spatial effects in multichannel soundtracks and upmixes for convincing 3D playback through your object-audio-ready speaker system. Dolby Surround can also remix legacy sound formats for multidimensional playback in a Dolby Atmos environment.

Music Made Easy with Chromecast built-in*

Stream any music from your smartphone, laptop, or PC to the TX-RZ620 with ease. Control playback with Chromecastenabled apps you know and love

from your iPhone, iPad, Android phone or tablet, Mac or Windows® . laptop, or Chromebook™

Stream Anything with DTS Play-Fi®*

DTS Play-Fi is a wireless protocol that works with any audio app on mobiles and PC. Flick whatever's playing to the receiver, even different sources to different components at the same time

FireConnect[™] Wireless Multi-room Audio

FireConnect[™] mirrors network audio and external analog sources connected to a master component-from streaming services to vinyl records—on FireConnect[™]-compatible speakers in other rooms. Music selection, speaker grouping, and playback management across the home are built into Onkyo Controller app for iOS and Android[™]



Note: Sharing audio from external inputs depends the model and is enabled with a future firmware update. Sampling rates o update. Sampling rates 44.1 kHz and 48 kHz c supported. FireConnect" a technology based on ackfire provided by Blackfire esearch Corp., USA





Onkyo Controller Supports Next Generation Network Audio

Onkyo Controller collects streaming services and network-attached audio into an intuitive smartphone app. Control playback, explore services, and distribute audio all over the home via FireConnect[™] from one easy interface.

Wi-Fi[®], AirPlay, Spotify[®], and Bluetooth[®]

Selectable 5 GHz/2.4 GHz Wi-Fi® assures stable connectivity so you can enjoy smooth streaming over AirPlay, the Spotify app, and the local network. Bluetooth wireless technology also provides quick streaming from your choice of music application.



Internet Radio and Streaming Services

TIDAL, Deezer, Pandora®, and TuneIn are on board to make selecting from a massive range of music and radio programs using Onkyo Controller very simple.





Supports HDR10, HLG, Dolby Vision[™], BT.2020, 4K/60 Hz, and HDCP 2.2

Six rear HDMI® inputs support pass-through of HDR10, HLG (Hybrid Log-Gamma), and Dolby Vision; the BT.2020 4K video standard; 4K/60 Hz video playback; and HDCP 2.2 for premium video content. Further, a front HDMI terminal is ideal for video camera connection, while the rear Sub Out is handy for projectors.



Powered Zone 2 Audio Distribution

With a 5.2-channel layout in the media room, Powered Zone 2 speaker outputs can send amplified network, S/PDIF, and analog audio sources to a pair of stereo speakers in another room. For 5.2.2-channel home theater layouts, a pre-/line output is ideal for transmitting stereo sources available to the receiver to a hi-fi system elsewhere in the home. Multi-room playback is supported within Onkyo Controller app.

* Requires a future firmware update

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SPECIFICATIONS	
Amplifier Section	
Power Output	
All Channels	100 W/Ch (8 Ohms, 20 Hz–20 kHz,
/ in catalities	0.08% THD, 2 Channels Driven, FTC)
	215 W/Ch (6 Ohms, 1 kHz, 10% THD,
	I Channel Driven)
Dynamic Power	240 W (3 Ohms, Front)
Dynamie i otrei	210 W (4 Ohms, Front)
	120 W (8 Ohms, Front)
THD+N (Total Harmoni	
	0.08% (20 Hz–20 kHz, Half Power)
Input Sensitivity and Impe	
input sensitivity and impe	200 mV/47 k-Ohms (Line)
	3.5 mV/47 k-Ohms (Phono)
Rated RCA Output Level	I V/470 Ohms (Subwoofer Pre Out)
	200 mV/22 k Ohms (Zong Ling Out)
	200 mV/2.3 k-Ohms (Zone Line Out)
Frequency Response	5 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)
Tone Control	±10 dB, 90 Hz (Bass)
	±10 dB, 7.5 kHz (Treble)
Signal-to-Noise Ratio	106 dB (Line, IHF-A)
-	80 dB (Phono, IHF-A)
Speaker Impedance	4 Ohms–16 Ohms
Video Section	
Input Sensitivity/Output I	
Video	1.0 Vp-p/75 Ohms (Component Y)
	0.7 Vp-p/75 Ohms (Component PB/CB, PR/CR)
	1.0 Vp–p/75 Ohms (Composite)
Tuner Section	
Tuning Frequency Range	
FM	87.5 MHz–107.9 MHz
AM	530 kHz–1,710 kHz
FM/AM Preset Memory	40 Stations
•••••••••••••••••••••••••••••••••••••••	
General	
Power Supply	AC 120 V~, 60 Hz
Power Consumption	580 W
No-Sound Power Consul	nption
	60 W
Standby Power Consump	tion
-,	0.15 W
Dimensions (W x H x D)	
	(435 x 173.5 x 378 mm)
Woight	22.0 lbs. (10.0 kg)
Weight	22.0 IDS. (10.0 Kg)
UPC CODE	
	889951000785
<u>(B)</u>	667751000765
CARTON	
Dimensions (W x H x D)	211/4″×101/4″×1711/16″
	(539 × 260 × 450 mm)
Weight	28.7 lbs. (13.0 kg)
Weight	20.7 IDS. (13.0 Kg)
Supplied Accessor	ies
Power cord • Indoor FM antenna • AM loop antenna	

Power cord • Indoor FM antenna • AM loop antenna
 Speaker setup microphone • Quick Start Guide • Basic manual
 Remote controller • AAA (R03) batteries × 2

Optional Accessories

Rack-mounting kit (IRK-155-3D)



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