

TX-RZ720 7.2-Channel Network A/V Receiver

RZ
SERIES



BLACK SILVER



Invest in THX® Certified Select™ Theater Performance

The TX-RZ720 offers THX Certified Select cinema-reference sound and state-of-the-art features for breathtaking entertainment in the living room and beyond. Expect smooth and powerful 5 Hz–100 kHz reproduction with thrilling dynamics and exquisite detail rendition, whether you're driving all channels with object-audio soundtracks or streaming music via Chromecast built-in², AirPlay, or DTS Play-Fi[®]. Tap your touchscreen to share network and analog audio sources to NCP-302 wireless speakers using FireConnect™ powered by Blackfire. HDMI® now supports pass-through of HDR features including HLG (Hybrid Log-Gamma), Dolby Vision™, and BT.2020 to the latest displays, while a suite of connections integrate the receiver into home automation systems. * Enabled with a future firmware update.

HIGHLIGHTS

- 175 W per Channel of THX® Certified Select™ Reference Sound
- Supports 5.2.2-Channel Dolby Atmos® and DTS:X™ Playback
- Dynamic Audio Amplification with 5 Hz–100 kHz Frequency Response
- 7 HDMI® Inputs (1 Front¹) / Main Out/Zone 2 Out Supporting Dolby Vision™, HDR10, HLG, and 4K/60 Pass-through, and HDCP 2.2
- 384 kHz/32-bit DAC and VLSC™ Filtering for Superior Clarity
- Ready for Chromecast built-in² and DTS Play-Fi[®]
- 5 GHz/2.4 GHz Wi-Fi[®], AirPlay, Spotify[®], TIDAL, Deezer, Pandora[®], Tuneln⁴
- FireConnect™⁵ Wireless Multi-room Audio

- Powered Zone 2 Speaker Outputs and Zone 2 Pre-/Line Output with Dedicated DAC Supporting Network, S/PDIF, HDMI, and Analog Audio
- 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) for Legacy Video Formats

AMPLIFIER FEATURES

- 175 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- 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) EI Transformer
- VLSC™ (Vector Linear Shaping Circuitry) High-frequency 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
- THX Listening Modes for Movies, Music, and Games
- 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 (6 Rear, 1 Front) and 2 Outputs (Main Out, Zone 2 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 1 Coaxial)
- 6 Analog Audio Inputs (Coaxial), 1 Stereo 3.5 mm Analog Input (Front)
- Phono Input (MM) and Equalizer for Turntable
- 2 Subwoofer Pre-Outs
- LAN Input with IP Control Support for Home Automation Systems and Setup via a Connected PC
- RS-232 Serial Input for External Control Commands
- 12 V Trigger Out (Main, 100 mA) for External Component Control Integration
- IR Input for Remote Control
- 6.35 mm Headphone Jack (Front)
- Speaker Posts with Screw Knobs
- 3.5 mm Speaker Setup Mic Input and Microphone

OTHER FEATURES

- Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/180/200 Hz)
- A/V Sync Control (Up to 500 ms in 5 ms Steps at 48 kHz)
- Graphical User Interface with Overlaid On-Screen Display (OSD) via HDMI
- Quick Setup Guide via GUI and Easy Connection Diagram on Rear Panel
- Large Input Selector Buttons and Front Panel Tone/Balance Controls
- Economical HDMI Pass-through and Network Standby Functions
- IP Control Support for Home Automation Systems
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- Rack-mounting Kit (Optional)
- Full-sized Simple Remote Control

¹ HDMI Front Input does not support 4K/60p/4:4:4/24-bit video, HDR10, Dolby Vision, HLG, or BT.2020. ² Requires a future firmware update. ³ Pandora is available in Australia and New Zealand only. ⁴ Availability of services may vary 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 Android™ 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.

ADVANCED FEATURES

- THX Certified Select for Cinema-Reference Volume and Sound Quality
- HDMI Terminals Supporting Dolby Vision, HDR10, HLG, BT.2020, 4K/60 Hz Pass-through, and HDCP 2.2
- Zone 2 HDMI (4K/60 Hz/HDCP 2.2) for Distributed Video
- 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
- AccuEQ Room Acoustic Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Intuitive Operation⁹
- 5 GHz/2.4 GHz Wi-Fi for Stable Network Connection
- Features 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 2.8 MHz/5.6 MHz⁷, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD⁸
- Supports Spotify, TIDAL, Tuneln, Pandora, and Deezer Services
- FireConnect™ Multi-room Network and Analog Audio Distribution to Supported Wireless Speakers⁹

TX-RZ720 7.2-Channel Network A/V Receiver

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-RZ720 features quality components, such as large custom capacitors, to provide high instantaneous current for fast transients and 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.



THX® Certified Select™ Reference Sound

THX Certified Select guarantees the same high-volume sound you experience at a commercial cinema in your home. To gain certification, amplifiers must pass the industry's most severe benchmarks covering every aspect of audio performance. THX Certified Select components are ideally suited to rooms where the screen-to-seat viewing distance is approximately 3 meters, and the room volume is approximately 57 cubic meters.



Unleash Dolby Atmos® or DTS:X™ Home Cinema

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-RZ720 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.



Upxmixing Solutions for Legacy Soundtracks

DTS NeuralX™ identifies spatial effects in multichannel soundtracks and upmixes for 3D playback through object-audio-ready speaker systems. Dolby Surround also upmixes legacy sound formats so you can experience multidimensional playback of legacy sound formats in a Dolby Atmos environment.

Onkyo Controller Supports Next Generation Network Audio

Onkyo Controller collects streaming services and local network audio into an intuitive app. Control playback, explore services, and distribute audio all over the home via FireConnect™ powered by Blackfire™ from one interface.



Music Made Easy with Chromecast built-in*

Stream any music from your smartphone, laptop, or PC to the TX-RZ720 with ease. Control playback with Chromecast-enabled 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 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 on the model and is enabled with a future firmware update. Sampling rates of 44.1 kHz and 48 kHz are supported. FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp., USA.

Wi-Fi®, AirPlay®, and Bluetooth®

Selectable 5 GHz/2.4 GHz Wi-Fi® assures a stable connection so you can stream over AirPlay, the Spotify app, and the local network. Bluetooth wireless technology provides simple streaming from your choice of app.



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.

Note: Pandora is available in Australia and New Zealand only.



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

Six rear HDMI® inputs, Main Out, and Zone 2 Out 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. Front HDMI terminal is ideal for video camera connection, while the Zone 2 output distributes home cinema video to a display in a second room.



* Requires a future firmware update.

SPECIFICATIONS

Amplifier Section

Power Output	
All Channels	175 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
Dynamic Power	250 W (3 Ω, Front) 220 W (4 Ω, Front) 130 W (8 Ω, Front)
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half Power)

Input Sensitivity and Impedance	
	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono)

Rated RCA Output Level and Impedance	
	1 V/470 Ω (Subwoofer Pre Out) 1 V/2.3 kΩ (Zone Line Out) 200 mV/2.3 kΩ (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)
Speaker Impedance	4 Ω–16 Ω

Video Section

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)

Tuner Section

Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	40 Stations

General

Power Supply	AC 220–240 V~ 50/60 Hz 60 Hz
Power Consumption	600 W
No-Sound Power Consumption	65 W
Standby Power Consumption	0.15 W
Dimensions (W x H x D)	435 x 177 x 378 mm
Weight	10.5 kg

CARTON

Dimensions (W x H x D)	546 x 256 x 452 mm
Weight	13.5 kg

Supplied Accessories

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



Text on receiver may vary with region.

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