

# TX-RZ820 7.2-Channel Network A/V Receiver































BLACK SILVER

























### Monumental Sound & Vision Delivered Without Comprise

Upgrades to the TX-RZ820 Network A/V Receiver—our THX® Certified Select™ 7.2-channel flagship—result in genuinely spectacular sonic performance. Dynamic Audio Amplification delivers instantaneous high-current power to full-scale speakers for thrilling energy and lifelike transient response across a wide 5 Hz-100 kHz spectrum. VLSC™ on all channels and non-phase-shift circuitry clarify details floating in three-dimensional space. Multi-room network and analog audio, including streaming over Chromecast built-in\* and DTS Play-Fi®\*, are served to NCP-302 wireless speakers via FireConnect™ powered by Blackfire. Powered and pre-/line audio distribution adds app-controllable audio in up to three zones simultaneously. Decoding Dolby Atmos® and DTS:X™, the receiver also supports Dolby Vision™, HDR10, HLG (Hybrid Log-Gamma), and BT.2020 video pass-through, and is set up for custom installs. Simply, it's the no-compromises 7.2-channel powerhouse you've been waiting for. \* Enabled with a future firmware update.

#### **HIGHLIGHTS**

- THX $^{\otimes}$  Certified Select $^{^{11}}$  Reference Sound
- Dynamic Audio Amplification with 180 W/Ch, 5 Hz–100 kHz Frequency Response, and VLSC  $^{^{10}}$  On All Channels
- Supports 5.2.2-Channel Dolby Atmos® and DTS:X™ Playback
- 7 HDMI® Inputs (I Front\*) / Main Out/Zone 2 Out Supporting Dolby Vision™, HDR10, HLG, and 4K/60p Pass-through and HDCP 2.2
- Ready for Chromecast built-in\*2 and DTS Play-Fi®\*2
- 5 GHz/2.4 GHz Wi-Fi®, AirPlay, Spotify®, TIDAL, Deezer,
- FireConnect<sup>™+5</sup> Wireless Multi-room Audio, Powered Zone 2, Zone 2/3 Pre-/Line Outs, and 7.2-Channel Pre-Outs

#### **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 Operation\*
- 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 Direct DSD 11.2 MHz<sup>k7</sup>,
  DSD 5.6 MHz/2.8 MHz<sup>k7</sup>, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD\*
- Supports Spotify, TIDAL, Tuneln, Pandora, and Deezer Services
- FireConnect<sup>™</sup> Multi-room Network and Analog Audio Distribution to Supported Wireless Speakers<sup>39</sup>

- Powered Zone 2 Speaker Outputs and Zone 2/3 Pre-/Line Output with Dedicated DAC Supporting Network, S/PDIF, HDMI, and Analog Audio\*10
- 7.2-Channel Pre-Outs, 12 V Trigger-Out, and IR Input
- 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**

- 180 W/Ch (6 Ω, I kHz, I% THD, I Channel Driven, IEC)
- Dynamic Audio Amplification System with 5 Hz-100 kHz Frequency
- Response
  H.C.P.S. (High Current Power Supply) El Transformer
- VLSC™ (Vector Linear Shaping Circuitry) Noise-filtering Technology for
- Optimum Gain Volume Circuitry
- Non-Phase-Shift Amplification Circuitry for Clarity and Detail
- Discrete Output Stage Circuitry for Low Distortion

#### 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 (ARC), DeepColor", xx.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 and Zone 3 Tone, Balance, and Volume Controls

#### CONNECTION FEATURES

- 7 HDMI Inputs (6 Rear, I Front), Main Out, and Zone 2 Output
- Powered USB Port (5 V, I A) for Audio Playback

- 2 Composite Video Inputs
- 2 Component Video Inputs • 3 Digital Audio Inputs (2 Optical and I Coaxial)
- 6 Analog Audio Inputs
   Phono Input (MM) and Equalizer for Turntable
- 7.2-Channel Pre-Outs • 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 lack (Front)
- 3.5 mm Speaker Setup Mic Input and Microphone

#### **OTHER FEATURES**

- · Aluminum Front Panel, Volume Control, and Flap Door
- 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
- Economical HDMI Pass-through and Network Standby Functions
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- · 40 FM/RDS and AM Random Presets • Rack-mounting Kit (Optional)
- Full-sized Simple Remote Control

\*\* IHDMI Front Input does not support «K/60p/4-4-4/2-4-bit video, HDR (0, Dolby Vision, HLIG, or BT 2020. \*\*2 Requires a future firmware update. \*\*3 Prodova ovalidoble 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\*\* as a technology based on Blockfire provided by Blockfire Research Corp. USA. Sampling rates of 4-11 kHz and 4-8 kHz are supported. \*\*6 For I/OS and Androd\*\* devices Places check App Store or Google Poly\* for device and OS requirements. \*\*7 DSD not supported over wireless LAN. \*\*8 Dolby Truel-ID playbock via USB input only. \*\*9 Sharing audo form external analog inputs deepends on the model and is enabled with a future firmware update. \*\*10 Audio distribution via SIPDIF or HDMI not supported in Zone 3.

## TX-RZ820 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-RZ820 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 bench-tests covering every aspect of audio performance. THX Certified Select components are ideally suited to rooms where the screento-seat viewing distance is approximately 3 meters, and the room volume is approximately 57 cubic meters.





#### Unleash Dolby Atmos® or DTS: $X^{\mathsf{TM}}$ 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-RZ820 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





#### Upmixing Solutions for Legacy Soundtracks

DTS Neural:X<sup>™</sup> 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.

#### Music Made Easy with Chromecast built-in

Stream any music from your smartphone, laptop, or PC to the TX-RZ820 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, Spotify®, 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 Tuneln 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

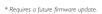
Six rear HDMI® inputs, Main Out, and Zone 2 Out support pass-through of HDR10, HLG (Hybrid Log-Gamma), and Dolby Vision; the BT.2020 4K video standard; 4K/60 Hz video playback; and HDCP 2.2 for premium video content, Front HDMI terminal is ideal for video camera connection, while the Zone 2 output distributes home cinema video to a display in a second room.

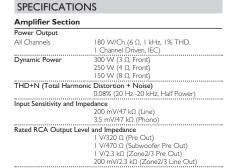


#### Wide Connectivity for Custom Setups

With 7.2-channel pre-outs, 12 V trigger, IR input, and optional rackmount kit, the TX-RZ820 easily integrates other components (such as outboard amps) to create a full wired multi-room setup thanks

to Powered Zone 2 and Zone 2/3 Pre-/Line Outputs governed by a Whole Home Audio Mode and supported within Onkyo Controller RS-232 and IP Control via LAN are ready for home automation systems





#### Signal-to-Noise Ratio Speaker Impedance Video Section Video

FM/AM Preset Memory

Frequency Response

Tone Control

#### Input Sensitivity/Output Level and Impedance

1.0 Vp–p/75  $\Omega$  (Component Y) 0.7 Vp–p/75  $\Omega$  (Component PB/CB, PR/CR) I.0 Vp-p/75 Ω (Composite)

+10 dB 90 Hz (Bass) ±10 dB, 7.5 kHz (Treble)

106 dB (Line, IHF-A)

4 Ω–16 Ω

5 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)

#### Tuner Section

uning Frequency Range	
FM	87.5 MHz-108 MHz
AM	522 kHz-1,611 kHz
	530 kHz-1,710 kHz
M/AM Preset Memory	40 Stations

General		
Power Supply	AC 220-240 V~, 50/60 Hz 60 Hz	
Power Consumption	650 W	
No-Sound Power Consumption		
	70 W	

#### Standby Power Consumption

	U.15 VV
Dimensions (W x H x D)	435 x 201.5 x 395 mm
Weight	14.0 kg

#### CARTON

Dimensions (W x H x D)	550 x 303 x 490 mm
Weight	17.0 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





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