Monumental Sound & Vision Delivered Without Compromise

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. Enjoy wireless multi-room audio over Chromecast built-in®, DTS Play-Fi®, and FlareConnect™ platforms and supported speakers and components. 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 firmware update.

HIGHLIGHTS

- THX® Certified Select™ Reference Sound
- Dynamic Audio Amplification with 180 WCH, 5 Hz–100 kHz Frequency Response, and VLSC™ On All Channels
- Supports 5.2.2-Channel Dolby Atmos® and DTS:X® Playback
- 7 HDMI® Inputs (1 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® and DTS Play-Fi®
- 7.2-Channel Pre-Outs, 12 V Trigger-Out, and IR Input
- Bluetooth® Wireless Technology for Mobile, Laptop, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Supports Front LR Channel E-Alignment in 5.2-Ch Speaker Layout
- Advanced Phase Optimizer Improves Compressed Digital Audio Quality, including Bluetooth Audio
- 480p TV-interfacing (480i to 480p) for Legacy Video Formats

AMPLIFIER FEATURES

- 180 WCH (6 & 6, 1 kHz, THD: 1%, Channel Driven, IEC)
- Dynamic Audio Amplification System with 5 Hz–100 kHz Frequency Response
- H.C.P.S. (High Current Power Supply) EI Transformer
- VLSC™ (Vector Linear Shaping Circuitry) Noise-filtering Technology for All Channels
- Optimum Gain Voltaic Circuity
- Non-Phase-Shift Amplification Circuitry for Clarity and Detail
- Discrete Output Stage Circuity 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™, 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 SPDIF Audio
- 33-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 LR Tone Controls (Bass/Treble) and Independent Zone 2 and Zone 3 Tone, Balance, and Volume Controls

CONNECTION FEATURES

- 7 HDMI Inputs (6 Rear, 1 Front), Main Out, and Zone 2 Output
- 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)
- 4 Analog Inputs
- Photo Input (PM) 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 (Front, 100 mA) for External Component Control Integration
- IR Input for Remote Control
- 4.35 mm Headphone Jack (Front)
- Speaker Pots with Screw Knobs
- 3.5 mm Speaker Setup Mic Input and Microphone

OTHER FEATURES

- Aluminum Front Panel, Volume Control, and Flap Door
- Crossover Adjustment for Each Channel (40/50/60/80/90/100/120/150/180/200 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
- Economic HDMI Pass-through and Network Standby Functions
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 PMDS and AM Random Presets
- Rack-mounting Kit (Optional)
- Full-sized Remote Control

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 3 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 Acoustics Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Invisible Operation
- 5 GHz/2.4 GHz Wi-Fi for Stable Network Connection
- Features Chromecast built-in® Wireless Audio Streaming Platform
- Supports DTS Play-Fi® Multi-room Audio
- AirPlay Audio Streaming from iTunes and iPod, iPhone, and iPod touch
- Supports H-Ras Audio Including Direct DSD (11.2 MHz), DS2 3.6 MHz/2.8 MHz®, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD®
- Supports Spotify, TIDAL, Tunes, and Deurer Services
- FlareConnect Multiroom Audio Distribution to Compatible Components and Speakers
- Powered Zone 2 Speaker Outputs and Zone 2 2/3 Pre-line Out/Line Outputs with Dedicated DAC Supporting Network, SPDIF, HDPD, and Analog Audio®
- 7.2-Channel Pre-Outs, 12 V Trigger-Out, and IR Input
- Bluetooth® Wireless Technology for Mobile, Laptop, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Supports Front LR Channel E-Alignment in 5.2-Ch Speaker Layout
- Advanced Phase Optimizer Improves Compressed Digital Audio Quality, including Bluetooth Audio
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Introducing the RZ Series

Our premium RZ Series A/V receivers deliver a significant boost to the dynamic, 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 transient 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 rigorous tests 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-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 Neo:XR™ identifies spatial effects in multichannel soundtracks and upmixes for 3D playback through object-oriented audio playback systems. Dolby Surround also upmixes legacy sound formats so you can experience multidimensional playback of legacy soundtrack 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 tablet, Mac or Windows® laptop, or Chromebook. Chromebook

Ready for DTS Play-Fi® Multi-room Audio

DTS Play-Fi allows you to enjoy high-quality music from connected online services, networked media servers, and your device library over Wi-Fi® to any number of compatible products using the Onkyo Music Control App for iPad, iPhone, and Android™ smartphones/tablets. DTS Play-Fi can synchronize the music playing in every room. Each member of your family can use their own device to listen to their music selection, speaker grouping, and playback management across the home are built into the Onkyo Controller app.

FlareConnect® Wireless Multi-room Audio

FlareConnect® shares audio from network and external audio input sources between compatible components. Enjoy effortless multi-room playback of UPnP devices, CDs, network music services, and more with supported components and speaker systems. Music selection, speaker grouping, and playback management across the home are built into the Onkyo Controller app.

SPECIFICATIONS

Amplifier Section

| Power Output | All Channels | 150 W (8 Ω, Front) |
| Dynamic Power | 200 W (6 Ω, Front) |
| THD+N (Total Harmonic Distortion + Noise) | 0.08% (20 Hz-20 kHz, Half Power) |
| Input Sensitivity and Impedance | 200 mV/2.3 kΩ (Line) |
| Kennedy RCA Output Level and Load (Ω) | 1 V/100 kHz (Line) |
| Tone Control | ±10 dB, 50 Hz (Bass) |
| Signal-to-Noise Ratio | ±10 dB, 7.5 kHz (Treble) |
| Speaker Impedance | 4Ω-16Ω |

Video Section

| Input Sensitivity/Output Level and Impedance | 1.0 Vp-p/75 Ω (Component Y) |
| Power Consumption | 0.15 W |
| General | 450 W |
| No-Sound Power Consumption | 0.15 W |
| SATIS Power Consumption | 0.15 W |
| Dimensions (W x H x D) | 435 x 203 x 390 mm |
| Weight | 14.8 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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