

# TX-RZ830 9.2-Channel Network A/V Receiver

RZ  
SERIES



## Entertainment like you've never felt it before

Feed your speakers the sound they deserve with the TX-RZ830, Onkyo's premier mid-class A/V receiver, and unlock complete 7.2.4-ch object-based audio coverage (outboard stereo amp required), universal 4K HDR pass-through, and custom Dynamic Audio Amplification housed in a robust aluminum-fronted chassis. Sound is fluid, expressive, and dynamically faithful to the source, details resolving with astonishing transparency, ideal for high-resolution music including Direct DSD 11.2 MHz, LPs via phono pre-amp, SACD from Blu-ray™ player, or music streamed over AirPlay. Compatibility with popular wireless audio platforms allows the TX-RZ830 to fit in seamlessly with other compatible components for easy multi-room audio. Mobile apps synchronize the content you want in different spaces with Chromecast built-in, DTS Play-Fi® technology, or FlareConnect™. TIDAL, Amazon Music, Spotify, Deezer, and TuneIn are built in for easy navigation. Do your favorites a favor: order the TX-RZ830 and bring what you love to life.

### HIGHLIGHTS

- 180 W per channel
- THX® Certified Select™ cinema-reference sound quality
- Dynamic Audio Amplification with 5 Hz–100 kHz reproduction
- 5.2.4-ch Dolby Atmos® and DTS:X® (7.2.4-ch with external amp)
- HDMI® 7 In (1 Front\*), Main Out, and Sub/Zone 2 Out<sup>2</sup> supporting 4K/60 Hz, HDR10, HLG, Dolby Vision™, BT.2020, and HDCP 2.2 pass-through
- Chromecast built-in
- Works with the Google Assistant
- 5 GHz/2.4 GHz Wi-Fi®, DTS Play-Fi® technology, FlareConnect™, AirPlay, Amazon Music, Spotify, TIDAL, Deezer, TuneIn<sup>3</sup>

### ADVANCED FEATURES

- THX Certified Select cinema-reference volume and sound quality
- HDMI supports HDR10, HLG, Dolby Vision, BT.2020, and 4K/60 Hz pass-through and HDCP 2.2
- Dolby Atmos and DTS:X playback through 5.2.4 or 7.2.2 channels
- 11.2 multichannel pre-outs and processing for 7.2.4-ch playback with an external stereo power amp
- Powered ZONE 2 and powered ZONE 3 speaker outputs, Zone 2 and Zone 3 pre-/line-level outputs with DACs for digital<sup>4</sup> and analog audio playback
- Cross-compatible upmixing for Dolby® and DTS® soundtracks with Dolby Surround and DTS Neural:X™ solutions
- AccuEQ Advance room-acoustic calibration with standing wave correction and AccuReflex™ phase-alignment for Dolby Atmos-enabled speakers
- Stable 5 GHz/2.4 GHz Wi-Fi connectivity
- Easy multi-room management with Onkyo Controller app<sup>5</sup>
- Audio streaming with Chromecast built-in and voice control through devices with the Google Assistant built-in

- DTS Play-Fi multi-room audio distribution technology via Onkyo Music Control App<sup>6</sup>
- FlareConnect multi-room audio distribution to compatible components
- Supports audio streaming from iPad, iPhone, Mac, and iTunes via AirPlay
- Amazon Music, Spotify, TIDAL, and Deezer music streaming services and TuneIn internet radio
- Hi-Res Audio playback including DSD 11.2/5.6/2.8 MHz<sup>6</sup>, 192 kHz/24-bit FLAC<sup>7</sup>, WAV (RIFF)<sup>8</sup>, AIFF, ALAC<sup>9</sup>, and Dolby® TrueHD<sup>8</sup>
- Bluetooth® wireless audio technology for mobile, laptop, and PC (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Advanced Music Optimizer improves compressed digital audio quality (Bluetooth audio included)
- Built-in low-noise phono pre-amp for Moving Magnet (MM) cartridges
- Supports Front L/R bi-amping
- 480i de-interlacing (480i to 480p) via HDMI for legacy video formats

### AMPLIFICATION FEATURES

- 180 W/Ch (6 Ω, 1 kHz, 1% THD, 1 channel driven, IEC)
- Onkyo high-current digital Dynamic Audio Amplification system
- 5 Hz–100 kHz reproduction and high power to drive 4-ohm speakers
- H.C.P.S. (High Current Power Supply) customized transformer
- Extra-large customized block capacitors for instant power
- VLS (Vector Linear Shaping Circuitry) high-frequency noise removal technology (Front L/R channels)
- Non-phase-shift amp circuitry for a clear and cohesive audio image
- Discrete output stage circuitry for low distortion

### PROCESSING FEATURES

- Dolby Atmos and DTS:X reproduction through 5.2.4-ch or 7.2.2-ch (7.2.4-ch with external stereo power amp)
- 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
- Precision AKM (AK4458) 384 kHz/32-bit multichannel DAC
- PLL (Phase Locked Loop) jitter-cleaning technology for S/PDIF audio
- 32-bit Digital Signal Processing (DSP)
- Pristine reproduction of audio-only sources in Pure Audio Mode

- Listening modes for gaming (Rock, Sports, Action, and RPG)
- Theater-Dimensional virtual surround-sound function
- Direct Mode for audio reproduction close to original source quality
- Independent tone controls (bass/treble) for all channels

### CONNECTION FEATURES

- 7 HDMI inputs (1 Front), Main Out, and Sub/Zone 2 Out
- Powered USB terminal (5 V, 1 A) for audio playback (rear)
- 2 composite video inputs and 2 component video inputs
- 3 digital audio inputs (2 optical and 1 coaxial)
- 6 analog audio inputs
- Phono input (MM) and equalizer for turntable connection
- 11.2 multichannel pre-outs
- 2 subwoofer pre-outs
- 6.35 mm headphone jack (front)
- Speaker setup mic input (front)
- 12 V trigger output, IR input, IP control, and RS232 support
- Detachable power cable

### OTHER FEATURES

- Aluminum front panel, flap door, and volume control
- 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 via HDMI
- Quick Setup Guide via GUI
- Economical HDMI pass-through and Network Standby functions
- 3-mode display dimmer (Normal/Dim/Dimmer)
- 40 FM/AM random presets
- Simple remote control
- Rack-mounting kit (optional IRK-180-4C)

\*1 Front HDMI input does not support 4K/60Hz/RGB/4:4:4/2:2. \*2 Sub/Zone 2 HDMI does not support ARC or CEC. \*3 Availability of services may vary with region. Subscription may also be required. \*4 Audio via HDMI inputs and S/PDIF audio not supported in Zone 3. \*5 Visit App Store or the Google Play Store to check device and OS requirements and download free. \*6 DSD 11.2 MHz playback is native. DSD 5.6/2.8 MHz is converted to PCM before playback. Playback not guaranteed via wireless LAN. \*7 Playback not guaranteed via wireless LAN. Supported sampling rate via wireless LAN depends on network environment. \*8 Playback not guaranteed via wireless LAN.

# TX-RZ830 9.2-Channel Network A/V Receiver

## Introducing the TX-RZ830

The TX-RZ830 brings a high-end approach to build and sound to the middle of our A/V receiver range. Our top-of-the-line high-current digital architecture is deployed with spectacular results: fluency, frequency range, transient response, and detail resolution are unassailable at the price. With sheer high-current power needed for edge-of-the-seat movie thrills and joyful stereo listening, the TX-RZ830 presents as a high-fidelity reference component loaded with connections needed for a custom install lasting well into the future.

## THX® Certified Select™ cinema-reference audio

THX Certified Select guarantees cinema-reference sound in your home. To gain certification, amplifiers must pass severe bench-tests covering every aspect of performance. THX Certified Select components suit rooms where screen-to-seat distance is about 3 meters and volume 57 cubic meters.



## Dynamic Audio Amplification (DAA)

The DAA philosophy places less emphasis on lab measurements and more on how the sound actually feels in real life. High-current drive and expert tuning deliver natural transient response, the key to involving sound. A deep power reserve arrives instantly when action explodes on screen, adding adrenaline to the film experience. Accuracy and control is maintained with custom transformer and custom block capacitors, aluminum heat sink, non-phase-shift amp circuitry, and discrete output transistors. With VLSC™ noise filtering (Front L/R) for improved fidelity, DAA is built for compelling sound.



## Dolby Atmos® and DTS:X® at up to 7.2.4 channels

Hear Dolby Atmos and DTS:X soundtracks through 7.2.2 or 5.2.4 channels. Connect an outboard power amp via 11.2-multichannel pre-outs for even more expansive 7.2.4-ch playback. Enjoy seamless top-to-bottom, side-to-side, and front-back coverage with in-ceiling speakers and floor-standing speakers. Individual sounds aren't tied to channels and move around your audience.



## Dolby® and DTS® solutions for 3D sound

DTS Neural:X™ technology and Dolby Surround find cues in legacy soundtracks and upmix for playback through systems with height channels. Cross-compatible with Dolby® and DTS® formats, enjoy spatially realistic and natural sound from your existing DVD and Blu-ray Disc™ library or streaming service.

## Chromecast built-in works with the Google Assistant

Stream any music from your smartphone, laptop, or PC to the receiver with ease. Control playback with Chromecast-enabled apps from your iPhone, iPad, Android™ phone or tablet, Mac or Windows laptop, or Chromebook™. If you have a device with the Google Assistant built-in, you can control music on the TX-RZ830 by voice.



## Ready for DTS Play-Fi® multi-room audio technology

DTS Play-Fi technology allows you to enjoy quality music from online services, media server, and mobile device to any number of compatible products using Onkyo Music Control App. DTS Play-Fi technology can synchronize music in every room.



## FlareConnect™ wireless multi-room audio

FlareConnect shares audio from network and external audio input sources between compatible components. Enjoy effortless multi-room playback of LP records, 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.



Note: For external input availability visit <http://www.onkyo.com/flareconnect>. Download Onkyo Controller free from the App Store or the Google Play Store.

## Powered sound in three zones

With a 5.2-ch cinema layout in Zone 1 (Main), the remaining four channels can drive speakers in Zone 2 and Zone 3. As well as analog distribution, dedicated DACs enable digital sources\* to be synced across rooms simultaneously, or a unique source to be played in every zone at once. Zone 2 and Zone 3 pre-/line outputs are ideal for sharing sources to existing hi-fi systems.

\* Audio via HDMI inputs and S/PDIF audio not supported in Zone 3.

## AccuEQ Advance for Accurate Calibration

AccuEQ sets speaker distance, SP level, and crossover. In addition, AccuEQ Advance employs multi-point measurement to remove standing waves from your listening space, which compromise audio quality and bass response. The technology also detects and compensates for background noise, such as the hum from an HVAC, to ensure accurate equalization.



## Wi-Fi® and Bluetooth® wireless connectivity

Built-in 5 GHz/2.4 GHz Wi-Fi provides network stability for streaming, Onkyo Controller app, and multi-room audio. Bluetooth wireless technology is also on board for easy mobile or laptop connection.

## AirPlay, streaming services, and internet radio built in

Find and stream music from iPad, iPhone, Mac, and PC over the Apple AirPlay wireless audio platform. Further, Amazon Music, Spotify, TIDAL, Deezer, and TunesIn are all baked into the system GUI, making selection easy using Onkyo Controller or Onkyo Music Control App.

## Supports 4K HDR, BT.2020, 4K/60 Hz, and HDCP 2.2

Welcome film-like 4K video bursting with bright and vibrant colors enabled by High Dynamic Range (HDR) to your supported TV display or projector. The receiver's HDMI® inputs, Main Out, and Sub/Zone 2 Out pass HDR10, HLG, and Dolby Vision™ formats through to compatible displays. These terminals support the BT.2020 4K video standard, 4K/60 Hz playback, and HDCP 2.2.



HDCP 2.2

HDR10, HLG, BT. 2020

## SPECIFICATIONS

### Amplifier Section

|  |   |
|--|---|
| <b>Power output</b>                              | 180 W/Ch (6 Ω, 1 kHz, 1% THD, 1 channel driven, IEC)  |
| <b>Dynamic power</b>                             | 250 W (3 Ω, Front)<br>220 W (4 Ω, Front)<br>130 W (8 Ω, Front)  |
| <b>THD+N (Total Harmonic Distortion + Noise)</b> | 0.08% (20 Hz–20 kHz, half power)  |
| <b>Input sensitivity and impedance</b>           | 200 mV/47 kΩ (Line)<br>3.5 mV/47 kΩ (Phono)   |
| <b>Rated RCA output level and impedance</b>      | 1 V/470 Ω (Subwoofer pre-out)<br>1 V/2.3 kΩ (Zone pre-out)<br>1 V/200 mV/470 ohms (Zone pre/line-out) |
| <b>Frequency response</b>                        | 5 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)   |
| <b>Tone control</b>                              | ±10 dB, 20 Hz (Bass)<br>±10 dB, 20 kHz (Treble)   |
| <b>Signal-to-Noise ratio</b>                     | 106 dB (Line, IIF-A)<br>80 dB (Phono, IIF-A)  |
| <b>Speaker impedance</b>                         | 4 Ω–16 Ω  |

### Video Section

|   |   |
|---|---|
| <b>Input sensitivity/output level and impedance</b> |   |
| Video   | 1.0 Vp-p/75 Ω (Component Y)<br>0.7 Vp-p/75 Ω (Component B/R)<br>1.0 Vp-p/75 Ω (Composite) |

### Tuner Section

|                               |  |
|-------------------------------|--|
| <b>Tuning frequency range</b> |  |
| FM                            | 87.5 MHz–108 MHz                       |
| AM                            | 522 kHz–1,611 kHz<br>530 kHz–1,710 kHz |
| <b>FM/AM preset memory</b>    | 40 stations                            |

### General

|                                   |                         |
|-----------------------------------|-------------------------|
| <b>Power supply</b>               | AC 220–240 V~, 50/60 Hz |
| <b>Power consumption</b>          | 850 W                   |
| <b>No-sound power consumption</b> | 70 W                    |
| <b>Standby power consumption</b>  | 0.15 W                  |
| <b>Dimensions (W x H x D)</b>     | 435 x 201.5 x 398 mm    |
| <b>Weight</b>                     | 14.0 kg                 |

### CARTON

|                               |                    |
|-------------------------------|--------------------|
| <b>Dimensions (W x H x D)</b> | 574 x 335 x 490 mm |
| <b>Weight</b>                 | 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



Text on receiver may vary by region.

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