For Multidimensional Sound Without Compromise

Our flagship receiver’s fathomless high-current power and instantaneous full-scale dynamics make it the ultimate driving force for 7.2-channel home-cinema layouts with floorstanding speakers, dual subwoofers, and in-ceiling height speakers. Sound quality is accurate, lush, and exuberant, capable of transporting your audience into the world created by the film’s director. As well as transforming the cinematic and stereo-listening experience, the TX-RZ3100 serves entertainment seamlessly across the home, with wired or wireless multi-zone audio, Zone 2 HDMI®, and a suite of casting technologies to share app-based audio to the home cinema and beyond. Designed for easy custom home integration, the TX-RZ3100 is crafted with passion for the passionate home cinema enthusiast.

**HIGHLIGHTS**

• **200 W per Channel**
• **THX® Select2™ Plus Certification**
• **Native DTS:X™ and Dolby Atmos® to 7.2.4 Channels**
• **DTS Neural:X™ for Atmos-like Multi-channel Formats**
• **Chromecast built-in®, AirPlay, Wi-Fi®, and Bluetooth® App Streaming**
• **AccuEQ Room Calibration with AccuReflex Technology**
• **FireConnect™ Multi-Room Wireless Technology**
• **HDMI® 8 In (1 Front), Main Out, Zone 2 Out (HDCP 2.2/HDR™)**

**ADVANCED FEATURES**

• **THX® Select2™ Plus Cinema-Reference Audio Performance**
• **7.2-channel DTS:X and Dolby Atmos Object-based Audio Decoding**
• **DTS Neural:X® Upmixes Standard 5.1 and 7.1 formats to 3D sound**
• **HDMI Supports 4K/60 Hz, High Dynamic Range, 4:4:4 Color Space, and HDCP 2.2-protected Video**
• **Chromecast built-in, AirPlay, Wi-Fi, Chromecast, Google Cast, Tidal, Deezer®, Spotify®, Tidal®, and Deezer® Audio Streaming**
• **Common HDMI, Optical, Coaxial, and Analog Inputs**
• **8 HDMI Inputs (1 Front/7 Rear), Main, and Zone 2 Outputs**
• **Amplifier Features**
  • **200 W/Ch (6.1 kHz, 10% THD, 1 Channel Driven), 340 W/Ch (6.1 kHz, 0.1% THD, 1 Channel Driven)**
  • **Onkyo High-Current Digital Amplification for Smooth Low-Distortion Power**
  • **Customized High-Output Transformer, Custom Audio-Guide Capacitors, Separate Transformer for Standby**
  • **Separated Digital and Analog Circuitry to Reduce Interference**
  • **Optimum Gain/Volume Circuitry**
• **VLC® (Vector Linear Shaping Circuitry) Noise-free Signal Processing for All Channels**
• **PLL (Phase-Locked Loop) Inter-Clocking Circuitry for SPDIF Audio**

**PROCESSING FEATURES**

• **HDMI Support for 4K/60 Hz, 3D Audio Return Channel, DeepColor™, x.v.Color™, x.v.Color, Dolby Atmos, Dolby TrueHD, Dolby®, Surround, DTS:X, DTS-ES, DTS Express, DTS Neural:X, THX® Cinema/Master Game, DVD-Audio, Super Audio CD, Multi-channel PCM, and CEC**
• **Dolby Atmos, DTS:X, Dolby TrueHD, and DTS-HD Master Audio Decoding**
• **Discrete 200 W/Ch (20 kHz, 0.0005% THD, 20% Power Factor)**
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**CONNECTION FEATURES**

• **8 HDMI Inputs (1 Front/7 Rear), Main, and Zone 2 Outputs**
• **Component Video Switching (2 Inputs and 1 Output) and 2 Composite Video Inputs**
• **5 Digital Audio Inputs (3 Optical and 2 Coaxial) and 7 Analog Audio Inputs**
• **Phono Input (MM) for Turntable Connection**
• **Mass Storage Class USB Memory Playback Capability (Rear Input)**
• **Zone 2 and Zone 3 Powered Speaker Outputs**
• **11.2 Multichannel Pre-Outs and Zone 2/3 Pre-/Line Outs**
• **12V Trigger Out (Assignable) with IR Input, Supports IR and RS232**
• **6.3 mm Headphone Output**

**OTHER FEATURES**

• **Tone Controls (Bass/Treble) ±10 dB for All Channels**
• **Independent Crossover Adjustments for Each Channel**
• **HDMI Support for 4K/60 Hz, 3D Audio Return Channel, DeepColor™, x.v.Color™, x.v.Color, Dolby Atmos, Dolby TrueHD, Dolby®, Surround, DTS:X, DTS-ES, DTS Express, DTS Neural:X, THX® Cinema/Master Game, DVD-Audio, Super Audio CD, Multi-channel PCM, and CEC**
• **Dolby Atmos, DTS:X, Dolby TrueHD, and DTS-HD Master Audio Decoding**
• **Separate 8-Bit/32-Bit A/4490 Stereo DAC (Front Lift), 2 x 768 kHz/32-Bit A/4458 Multichannel DACs (Surround Channels)**
• **Discrete 192 kHz/24-Bit AK4388 Stereo DACs (x2) for Zone 2 and Zone 3**
• **Multiple 32-Bit Digital Signal Processing Engines**
• **4 DSP Modes for Gaming, Rock, Sports, Action, and RPG**
• **Theater-Dimensional Virtual Surround Function**
• **Direct Mode and Pure Audio Mode**

**ADVANCED FEATURES**

• **FireConnect™ Wireless Multi-room Networking/Audio Distribution to Compatible Speakers (Sold Separately)**
• **11.2 Multichannel Pre-Outs and User Setup Customization**
• **Quality Banana-plug Speaker Posts with Transparent Knobs**
  • **Onkyo Control App for iOS and Android® Devices**

**AMPLIFIER FEATURES**

• **300 W/Ch (6.1 kHz, 10% THD, 1 Channel Driven), 340 W/Ch (6.1 kHz, 0.1% THD, 1 Channel Driven)**
• **Onkyo High-Current Digital Amplification for Smooth Low-Distortion Power**
• **Customized High-Output Transformer, Custom Audio-Guide Capacitors, Separate Transformer for Standby**
• **Separated Digital and Analog Circuitry to Reduce Interference**
• **Optimum Gain/Volume Circuitry**

**OTHER FEATURES**

• **FireConnect® On-Screen Display (OSD) via HDMI with Quick Setup Function**
• **Hybrid Standby Function with HDMI Passthrough**
• **40 PMAM and 40 Internet Radio Station Presets**
• **Remote Control (40/50/60/70/80/100/120/150 kHz) 192 kHz and 48 kHz**
• **New Graphical Overlaid On-Screen Display (OSD) via HDMI with Quick Setup Function**
• **Hybrid Standby Function with HDMI Passthrough**
• **4 HDMI Inputs (1 Front/7 Rear), Main, and Zone 2 Outputs**
• **Component Video Switching (2 Inputs and 1 Output) and 2 Composite Video Inputs**
• **5 Digital Audio Inputs (3 Optical and 2 Coaxial) and 7 Analog Audio Inputs**
• **Phono Input (MM) for Turntable Connection**
• **Mass Storage Class USB Memory Playback Capability (Rear Input)**
• **Zone 2 and Zone 3 Powered Speaker Outputs**
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• **6.3 mm Headphone Output**

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• **Phono Input (MM) for Turntable Connection**
• **Mass Storage Class USB Memory Playback Capability (Rear Input)**
• **Zone 2 and Zone 3 Powered Speaker Outputs**
• **11.2 Multichannel Pre-Outs and Zone 2/3 Pre-/Line Outs**
• **Dual Subwoofer Pre-Outs**
• **12V Trigger Out (Assignable) with IR Input, Supports IR and RS232**
• **6.3 mm Headphone Output**
Ultimate DTS:X™ and Dolby Atmos® Home Cinema

With 11.2 channels of instantaneous power from an uncommonly small body, the TX-RZ3100 enables the current maximum Dolby Atmos® and DTS:X® home cinema layout of 7.2.4 channels in a self-contained component for the ultimate in multidimensional object-based surround-sound.

Umixes Standard Surround Formats
DTS Neural:X® retrieves special cues from standard multichannel formats and upmixes for 3D playback that’s virtually indistinguishable to a multi-channel DTS:X® source, giving your existing Bluray library a new lease on life.

THX® Certified for Cinema Reference Sound
THX® Select2® Plus guarantees distortion-free Cinema Reference Volume in your home. Certified products are subjected to the industry’s toughest bench-tests to satisfy THX® requirements for audio performance.

Onkyo High-Current Digital Amplification
The TX-RZ3100 combines high-current driving architecture with sophisticated digital filtering and filtering technology. Noise-reduction hardware including a new custom low-hum transformer delivers fast dynamics, thrilling power, and stunningly precise detail resolution. Panstakingly tuned for velvet-smooth and emotionally expressive audio reproduction, Onkyo High Current Digital is where power meets control.

Cohesive Multidimensional Sound
AccuReflex—part of the AccuEQ room calibration suite—phase-matches Dolby Atmos-enabled and floor-standing speakers for seamless reproduction of object-based sound. AccuEQ optimizes the entire system to suit your space without affecting front-speaker characteristics for pure stereo listening.

Housewide Playback of Any Source
Put extra speakers you have to good use—connect them to the receiver’s Powered Zone 2 and Powered Zone 3 outputs. Dedicated DACs and smartphone control options let you manage content in any zone, making housewide sound a practical proposition.

Latest Dual-Zone HDMI®
Select HDMI terminals support HDR, 4:4:4 color-space, and HDCP 2.2 for next-generation Ultra HD Blu-ray streaming 4K video, and 4K/60 Hz PC-based gaming. Zone 2 output transmits 4K home cinema sources to a second TV.

Specs

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<th>SPECIFICATIONS</th>
<th>Value</th>
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<td>Power Output</td>
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<td>THD+N</td>
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<td>Noise figure</td>
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<td>Signal-to-Noise Ratio</td>
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| Dynamic Power | 200 W (8 \Ω)

Note: FireConnect™ is enabled with a firmware update. Sharing audio from external inputs depends on the model variant. Tuning ranges of 44.1 kHz and 48 kHz are supported. FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp., USA.

http://www.onkyo.com/