



Onkyo's new 11.2-Ch Flagship AVR builds on a legacy of electrifying sound with unique functions and a broad platform of next-generation audio-video features



TOKYO, JAPAN. September 3, 2019 — Onkyo & Pioneer Corporation today unveils its much-anticipated 11.2-channel flagship A/V receiver, a model destined to set the standard for full-scale 3D cinema sound and whole-home entertainment at the very highest level.

The THX® Certified Ultra™ 11.2-Channel TX-RZ3400 Network A/V Receiver is rated at 11 x 260W (6 ohms, 1 kHz, 10% THD, 1-ch driven) and creates a seamless Dolby Atmos® or DTS:X® soundfield from various speaker layouts up to 7.2.4 channels. It can also serve app-controlled powered digital or analogue audio to Zone 2 and Zone 3 with a 5.2.2-ch surround system in the main room*1. Dolby Surround® and DTS® Neural:X™ upmixers remap legacy soundtracks for 3D surround playback, while Dolby Atmos Height Virtualizer enhances immersion with traditional layouts.

There are seven HDMI® inputs (one front mounted) and three HDMI outputs that support simultaneous output and independent video playback*2. Main Out carries eARC and all terminals are HDCP 2.3-compliant with 4K/60p, HDR (HDR10, HLG, Dolby Vision™), and BT.2020 video pass-through.

The TX-RZ3400 is the only Onkyo AVR with THX Certified Ultra certification from THX Ltd., an A/V reproduction standards and quality-assurance organization started by Lucasfilm Ltd. in 1983. Every aspect of the TX-RZ3400 was independently tested at THX Labs in a barrage of 2,000 bench-tests examining 14,000 data-points across 75 different categories. THX Certified Ultra guarantees the reference sound-pressure, loudness, and minimal distortion levels of a commercial cinema in homes where the screen-to-seat viewing distance is more than 3.5 m.

The TX-RZ3400 also complies with the IMAX® Enhanced program, which features DTS:X immersive audio decoding optimised to reproduce the full dynamic range of IMAX theatrical sound mixes available in digitally re-mastered IMAX Enhanced content. The IMAX Mode reproduces IMAX Enhanced content at the highest levels, just as the filmmakers intended.

Onkyo's range-topping Dynamic Audio Amplification is a high-current digital system with custom-built main power transformer, bespoke high-current smoothing capacitors, and sophisticated output-stage

At a glance...

Topic:

TX-RZ3400: Onkyo presents new 11.2-Ch Flagship AVR

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2.799 € / 2.499 £

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filtering. Customised parts are used throughout and are tuned by ear, measured, and tuned again to achieve subjectively and objectively good sound. An ultra-wide 5 Hz – 100 kHz frequency response captures the entire recording, as well as the atmosphere of the space around it, for true-to-life expression. Heart-stopping dynamics and exhilarating power effortlessly control large, low-impedance loudspeakers down to 4 ohms.

Unique hardware-based functions that improve sound quality are one area where the TX-RZ3400 really distinguishes itself. These debut along with several other features already introduced this year, and include a DSP-based Vocal Enhancer; on-screen media information overlay allowing source input and output parameters to be compared and adjusted; Stereo Assign Mode, which switches audio from front to height or surround/surround back speakers; and a Zone B line-out that shares any source to wireless headphones via a compatible dock or wireless transmitter.

Discrete Audio Path Mode for Selected BD Players

Discrete Audio Path Mode works with BD players that can transmit the source's audio and video streams separately to the TV and A/V receiver via dual HDMI outputs. Since the A/V receiver is handling audio exclusively, HDMI output circuitry isn't required and can be shut down to limit interference on the audio signal. This significantly improves the clarity of movie soundtracks, and can be switched on and off, via the Quick Menu overlaid OSD.

Network Noise-Suppression Functions

Subtle interference can become noticeable on high-quality audio reproduction equipment. One frequent culprit is the network module. To counter interference, the network board is isolated from audio circuitry and can be governed by two new modes. 'Cinema Dedicated' mode switches off the module clock, reducing interference. 'Cinema Dedicated - Net Off' mode' shuts down its power supply, eliminating noise for occasions when sound quality takes priority over an active network connection.

Advanced Noise-Reduction Technologies

A new HDMI circuit board features shorter signal paths and larger grounds. Errors are minimised and clean ground-potential is assured. On the audio-processing side, VLSC™ (Vector Linear Shaping Circuitry) on the DAC output stages compares input and output waveforms to filter high-frequency pulse-modulation noise, improving clarity and realism in the upper treble region.

AccuEQ ADVANCE PLUS with AccuReflex™

AccuEQ ADVANCE PLUS room acoustic calibration is an expanded version of AccuEQ Advance featuring standing-wave-removal technology. It gives a greater flexibility in the application of EQ and includes high-frequency sound correction. Following 9-point measurement (detecting and compensating for subtle background noise, improving accuracy), the resultant EQ levels can be applied to all channels; applied to all except Front L/R; or the levels acquired for the front channels applied to all speakers. It delivers the sound-field cohesion of an acoustically-treated room while giving the freedom to choose what EQ sounds best. AccuReflex, meanwhile, calibrates the phase of directional and non-directional sound for seamless object-based audio reproduction.

Class-leading Network Audio Technologies

The TX-RZ3400 has an impressively comprehensive network audio platform to partner apps and voice assistants on supported smartphones, laptops, desktop computers, and smart speakers. High-speed 802.11ac (2x2 MIMO) 5 GHz/2.4 GHz Wi-Fi®*3 is enabled by the high-speed quad-core SoC. Integrated services comprise TIDAL, Spotify®, Amazon Music, TuneIn, and Deezer*4.

Works with Alexa^{*5} lets families use their voices to control the TX-RZ3400 by directing requests through an Alexa Built-in device. Just ask an Alexa Built-in device, such as the Amazon Echo, to play, pause, and skip titles or control the volume. Users can enjoy music playback via Amazon Music and make selections by song title, artist name, release year, or genre. In addition, users will be able to synchronized playback with multiple devices by using 'Multi Room Music' (MRM) mode, planned for a future firmware update.

Chromecast built-in can stream any music from smartphone, laptop, or PC to the receiver with ease. Control playback with Chromecast-enabled apps from Android™ phone or tablet, Chromebook, Windows® PC, or iPhone, iPad, or Mac. If the user has a device with the Google Assistant, it's easy to find, play, and control music through this and other supported components by voice.

Apple AirPlay2 is an Apple technology designed to control home audio systems and speakers in any room - with a tap or by just asking Siri - right from iPhone, iPad, HomePod, or Apple TV. Play a song in the living room and kitchen at the same time or adjust the volume in any room, all in sync.

The TX-RZ3400 works with Sonos Home Sound Systems. Just pair it with a Sonos Connect (sold separately). The receiver wakes, changes inputs, and plays at the desired volume on command from the Sonos Controller app^{*6}. DTS Play-Fi® and FlareConnect™^{*7} round out the multi-room platform.

Audiophile DAC Deployment for Hi-Res Audio

With a premium AKM AK4490 768 kHz/32-bit stereo DAC dedicated exclusively to the front channels (two more 384 kHz/32-bit DAC modules handle zone and surround channels) and a carefully designed pre-amp section, the receiver smoothly handles Hi-Res Audio including DSD Direct 256, DSD 64/128/256 (PCM conversion), and a wide range of PCM formats up to 192 kHz/24-bit^{*8}. It's with these high-quality sources that the patented noise-reduction techniques, such as VLSC, enhance smooth, rich expression to create an intoxicating stereo listening experience for music lovers.

Roon Tested

Roon is the definitive platform and ecosystem for music, and it transforms your browsing and listening experience. Along with your music, Roon combines artist photos, credits, bios, reviews, lyrics, tour dates, and composers in a surfable, searchable digital magazine about your music collection. Furthermore, Roon seamlessly integrates local personal files with the millions of streaming tracks from TIDAL^{*4} and Qobuz^{*4}. Also, Roon is a multi-room platform supporting bit-perfect playback, DSD and PCM upsampling, multichannel support, and signal path display. As the TX-RZ3400 is certified under the Roon Tested program, its product icon appears in Signal Path and Zone Selector on Roon apps. Music is easily streamed from a Roon Core (Mac or Windows PC with Roon app installed, or Roon Server device) to the TX-RZ3400.

Enhanced Operability with New Self-Illuminating Backlit Remote

This Onkyo flagship is the first to launch with a new, beautifully designed and simple to use remote featuring automatic backlighting. This function is invaluable for making in-program adjustments when the lights are down while watching movies or gaming.

For all its sophistication, the TX-RZ3400 is very simple to operate. A high-definition GUI carries a transparent overlaid OSD for both Main Menu settings and a Quick Menu for in-program adjustments. There are standby modes enabling wake-on-play via network or Bluetooth® wireless technology. The receiver features bi-directional RS-232 serial port and Ethernet for IP control; while assignable 12 V trigger output, IR input, and optional rack-mounting kit enable concealed installation remote from the TV. Details such as quality transparent speaker binding posts, component and composite video inputs,

anti-resonant insulators, and an HDMI input behind the front flap door demonstrate the TX-RZ3400 is an amp that's ready for anything.

It's also equipped with 11.2 multi-channel pre-outs and has a Pre-Amp Mode for stereo power amp integration, for those wishing to customise their system. With connectivity extending to five digital audio inputs (three optical, two coaxial), six analogue RCA inputs, MM phono stage, rear powered USB input, and Zone 2 and Zone 3 pre-/line-level outputs, there's no shortage of connections.

The TX-RZ3400 is a big, heavy, amp with an aggressive stance and the bare minimum of controls to spoil a smooth, imposing aluminum front panel. It's a brilliantly designed, dependable receiver that uses technology for thrills, not frills. Its sound, through any speaker system, is monumentally impressive. And at the time of its release, it's the best equipped and best-sounding solution for movies in large home-cinema environments, with the ability to deliver audio well beyond the main room as lifestyles change.

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**1 When set to Zone 2, HDMI audio is available via inputs 1–3. SPDIF and HDMI support PCM signals only. Simultaneous playback of multiple audio sources is enabled. Zone 3 supports analog/NET/Bluetooth only. *2 Signals from any HDMI input can be output to all output terminals simultaneously. Main and Sub can only output the same signal, while Zone 2 also supports simultaneous and independent signal playback from HDMI inputs 1–3. *3 Some regions have regulations that affect wireless signal strength and the use of Wi-Fi channels. *4 Availability of services may vary by region and subscriptions may be required. *5 Enabled with a future firmware update. *6 Available free at the App Store and Google Play for iPhone, iPad, and Android devices. *7 FlareConnect is a proprietary network protocol that shares select audio sources between supported components. *8 Supported PCM sampling-rates may vary, and DSD playback may not be possible, in some network environments.*

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