

TX-NR636 7.2-Channel Network A/V Receiver

BLACK



Bringing Next-Generation Entertainment to Your Home

The TX-NR636 wins prime position on your gear rack for three reasons. Firstly, it's one of the only A/V receivers to support future Ultra HD movie streaming as well as 4K gaming at 60 fps with 4K/60 Hz-compatible HDMI® 2.0* inputs and HDCP 2.2 copy-protection compatibility. Qdeo™ upscaling technology also converts low-res DVDs and games into pin-sharp Full HD or 4K (if you have an Ultra HD display). Secondly, it sounds incredible, with Three-Stage Inverted Darlington Circuitry on the front and center channels for all-enveloping surround sound and musical two-channel audio. Thirdly, it's extremely easy to use, with inbuilt Wi-Fi® for universal HD streaming from PC, NAS, and smartphone. You can select from a wild variety of music streaming services and locate your network-attached libraries using the remote app, or stream almost any audio via Bluetooth. Overlaid menus with InstaPrevue™ technology make loading content fast and simple. Throw in an MM phono stage, room equalization, and powered Zone 2 and you've got a value-packed 7.2-channel powerhouse ready for the next wave of high-resolution entertainment.

*Supports 4K/60 Hz transmission of YCbCr 4:2:0 as defined by HDMI 2.0 specification.

ADVANCED FEATURES

- 4K/60 Hz-Capable HDMI® 2.0 *1 Terminals for Ultra HD Entertainment²
- Supports HDCP 2.2 for Future 4K/Full HD Video Streaming and Broadcast³
- Built-in Wi-Fi® Certified Wireless LAN Capability
- Bluetooth Version 2.1 + EDR Capability (Compatible Profile: A2DP v1.2, AVRCP v1.3) with Advanced Music Optimizer DSP Technology
- Three-Stage Inverted Darlington Circuitry for Front and Center Channels
- HDMI® Video Upscaling to 4K with Qdeo™ Processing Technology by Marvell
- Internet Radio and Music Streaming Subscription Services Included (TuneIn Radio, Pandora®, Slacker™, SIRIUS XM Internet Radio®, Spotify, AUPEO!, and Deezer)⁴
- Playback Compressed, Lossless, and HD Audio via Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, Apple Lossless, DSD 5.6 MHz, LPCM⁵, and Dolby® TrueHD)
- Proprietary AccuEQ Room Calibration with Mic Included
- Dolby® Pro Logic® IIz Upmixing for Seven-Channel Surround Sound
- Advanced Music Optimizer to Improve Compressed Digital Audio Quality (Bluetooth Included)
- Control and Stream with Free Onkyo Remote Streaming Apps for iPod touch®/iPhone®⁶ and Android Devices⁷
- Frontside MHL™ for 1080p Video and Stills from Smartphone and Tablet
- Input Source Preview with InstaPrevue™ Technology
- PM Bass Boost for Deep Bass and Clear Mid-Range
- Powered Zone 2 and Zone 2 Line-Out for Distributed Audio Playback in Another Room

AMPLIFIER FEATURES

- Bi-Amping Capability for Front Channels
- 95 Watts per Channel (8 Ohms, 20 Hz–20 kHz, 0.08% THD, 2 Channels Driven); 115 Watts per Channel (6 Ohms, 1 kHz, 0.7% THD, 2 Channels Driven)
- WRAT (Wide Range Amplifier Technology)
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Discrete Output Stage Circuitry
- Optimum Gain Volume Circuitry
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio

PROCESSING FEATURES

- HDMI Support for 4K/60 Hz, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- Dolby® TrueHD and DTS-HD Master Audio™ Decoding
- TI Burr-Brown 192 kHz/24-Bit DAC (8 Channels x 1)
- Dual 32-Bit Digital Signal Processing Engines
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Theater-Dimensional Virtual Surround Function
- CinemaFILTER™
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration

CONNECTION FEATURES

- A-Form Listening Mode Memory
- 7 HDMI Inputs (1 Front/6 Rear) and 2 Outputs
- USB Port (Front)
- Mass Storage Class USB Memory Playback Capability
- HDTV-Capable (720p/1080i) Component Video Switching (1 Input and 1 Output)
- 3 Composite Video Inputs and 1 Output
- 3 Digital Audio Inputs (1 Optical and 2 Coaxial)
- 6 Analog Audio Inputs
- Phono Input for Turntable Connection
- 2 Parallel Subwoofer Pre-Outs
- Color-Coded, Banana Plug-Compatible Speaker Posts

OTHER FEATURES

- Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 400 ms in 10 ms Steps at 48 kHz)
- Graphical Overlaid On-Screen Display (OSD) via HDMI with Quick Set-Up and Home Menu
- Hybrid Standby Function with HDMI Passthrough
- Smart Grid-Ready
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- Certified with DLNA Version 1.5
- Firmware Updates via Ethernet and USB
- RIHD (Remote Interactive Over HDMI) for System Control
- Compatible with RI Dock for iPod/iPhone and AirPlay (DS-A5)
- Preprogrammed RI (Remote Interactive) Remote Control



TX-NR636 7.2-Channel Network A/V Receiver

Ready for the Future with HDMI® 2.0*

Imagine playing the latest RPG blockbuster on your Ultra HDTV at a breathtaking 60 frames per second. Now add thunderous 7.2-channel surround sound from Onkyo. With HDMI terminals on your TX-NR636 receiver supporting 4K/60 Hz, this dream can be your reality. Even if you're not planning on upgrading your current display right away, it's good to know your receiver is ready for the future.

*Supports 4K/60 Hz transmission of YCbCr 4:2:0 as defined by HDMI 2.0 specification.

Supports HDCP 2.2 for 4K Streaming and TV

With Hollywood studios, satellite TV broadcasters, and video streaming services announcing a move to HDCP 2.2 copy protection for future 4K and Full HD releases, it's important that your A/V receiver can handle this new standard. The TX-NR636 is one of the first A/V receivers to support HDCP 2.2, making it ready for next-generation Ultra HD streaming and broadcasting.

4K Video Upscaling with Qdeo™ Technology

The TX-NR636 features Qdeo™ technology from Marvell to upscale low-res video to liquid-smooth 1080p (for HDTV) and 4K (3840 x 2160 pixels) with a compatible display. This means video from older gaming consoles and DVD players looks clean and sharp, giving old favorites a new lease on life.

Wi-Fi® and Bluetooth Inside

The TX-NR636 has Wi-Fi and Bluetooth technology built in. Complete the setup, download our control app, and you've got a graphic remote control and range of streaming features in the palm of your hand. Or pair your Bluetooth-capable device and stream almost any audio to your home theater. With Advanced Music Optimizer enhancement, music via Bluetooth has never sounded so good.

Stream Direct from Smartphone and Tablet

For lossless audio streaming, just tap on the Onkyo Remote App icon on your smartphone to find your music loaded and ready to stream with all the controls you're used to. The receiver can switch on and select your preferred playback mode automatically.

Stream Your Network-Attached HD Audio Libraries via Remote App

Onkyo A/V receivers are engineered for universal hi-res compatibility and ease of use. Use the remote app to locate your 192/24 and 96/24 HD albums (including 5.6 MHz DSD playback) on PC or NAS and bask in the clarity, depth, and detail of high-resolution music.

Built-in Internet Radio and Streaming

If you can think of it, you'll most likely be able to stream it. The receiver includes Spotify, AUPeO1, TuneIn, and now Deezer; the music subscription service available in over 200 countries and boasting a library of 25 million songs. You can search for available music using your free Onkyo remote app.

Play Lossless Music from USB

The front-panel USB port also plays almost any audio format from mass-storage-class drives. As well as compressed files, there's support for FLAC, WAV, ALAC, Dolby® TrueHD (48 kHz), and DSD. You can also connect a PC, smartphone, or music player using one of the many digital and analog inputs.

Engineered for High Fidelity

WRAT (Wide Range Amplifier Technology) is all about high current. You need it to stay in control when speaker impedance fluctuates, and to grip without clipping as the soundtrack explodes into action. We use a massive high-power transformer driving ultra-low-distortion Three-Stage Inverted Darlington Circuitry*. Combined with HD processing, the TX-NR636 packs a colossal punch for movies while retaining musicality for two-channel playback.

* Front and center channels only.

MHL™ for Mobile Device Connection

An HDMI/MHL terminal is included to connect smartphones and other electronic devices, allowing you to display 1080p video and other media on your HDTV with 7.1 channels of surround sound.

Dolby® Pro Logic® IIz Seven-Channel Surround Upmixing

Dolby® Pro Logic® IIz adds height to the soundstage with two Front Height channels immersing you deeper into the film. The system upmixes stereo or 5.1 sources to 7.1 channels, and offers a number of optimized listening modes.

Powered Multi-Zone Audio and Bi-Amping

Powered Zone 2 speaker terminals (and a Zone 2 line-out) let you power audio in another room equipped with stereo speakers. You can also assign surround back channels to bi-amp your front loudspeakers.

Remote Control App for Smartphone and Tablet

The free Onkyo Remote App gets your system up and running in moments. All major playback controls, speaker adjustments, listening mode/input source selections are at your fingertips. Tap the music icon for internet radio or to hear the music stored on your smart mobile, PC, or NAS.

Fast Switching and Adjustment

If you want to quickly adjust a speaker level, switch DSP modes, or change inputs, the "Q" remote control button does it in seconds by overlaying a simple transparent menu on screen. Use InstaPrevue™ technology to preview content playing on any HDMI-connected component—the overlaid video thumbnails are great for keeping an eye on a cable channel while you're watching a Blu-ray, for example, and also make video switching very clear and simple.

AccuEQ Room Calibration

Calibrating the sound to suit your room's acoustics is simple with AccuEQ. Connect the included mic and wait a few moments as it measures speaker distances, crossovers, and output levels, taking into account reflections from your walls and floor. The system optimizes the frequency response so you can enjoy balanced surround sound regardless of room shape or furnishings.

SPECIFICATIONS

Amplifier Section

Power Output
All Channels 95 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.08% THD, 2 Channels Driven, FTC)
115 W/Ch (6 Ohms, 1 kHz, 0.7% THD, 2 Channels Driven, FTC)

Dynamic Power
240 W (3 Ohms, Front)
210 W (4 Ohms, Front)
120 W (8 Ohms, Front)

THD+N (Total Harmonic Distortion + Noise)
0.08% (20 Hz–20 kHz, Half Power)

Damping Factor
60 (Front, 1 kHz, 8 Ohms)

Input Sensitivity and Impedance
200 mV/47 k-ohms (Line)
2.5 mV/47 k-ohms (Phono MM)

Rated RCA Output Level and Impedance
200 mV/2.2 k-ohms (Line Out)

Maximum RCA Output Level and Impedance
2.0V/2.2 k-ohms (Line Out)

Phono Overload
70 mV (MM, 1 kHz, 0.5%)

Frequency Response
5 Hz–100 kHz/±1 dB, -3 dB (Direct Mode)

Tone Control
±10 dB, 20 Hz (Bass)
±10 dB, 20 kHz (Treble)

Signal-to-Noise Ratio
106 dB (Line, IHF-A)
80 dB (Phono MM, IHF-A)

Speaker Impedance
6 Ohms–16 Ohms

Video Section

Input Sensitivity/Output Level and Impedance

Video 1.0Vp-p/75 Ohms (Component Y)
0.7Vp-p/75 Ohms (Component PB/CB, PR/CR)
1.0Vp-p/75 Ohms (Composite)

Component Video Frequency Response
5 Hz–100 MHz/±0 dB, -3 dB

Tuner Section

Tuning Frequency Range

FM 87.5 MHz–107.9 MHz
AM 530 kHz–1,710 kHz

FM/AM Preset Memory
40 Stations

General

Power Supply
AC 120V~, 60 Hz

Power Consumption
6.3 A

No-Sound Power Consumption
80 W

Standby Power Consumption
0.1 W

Dimensions (W x H x D)
17 1/8" x 6 3/16" x 12 3/16"
(435 x 173.5 x 329 mm)

Weight
22.0 lbs. (10.0 kg)

CARTON

Dimensions (W x H x D)
22 7/16" x 11 1/16" x 16 3/8"
(570 x 297 x 423 mm)

Weight
27.6 lbs. (12.5 kg)

UPC CODE

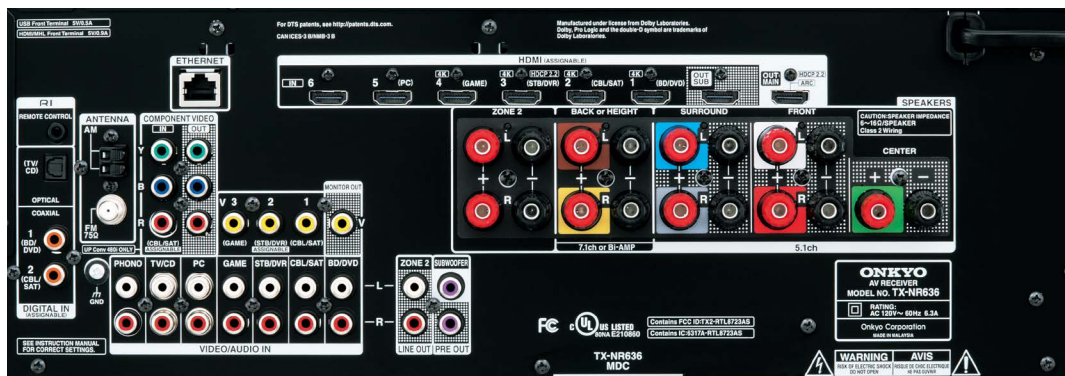
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Supplied Accessories

• Indoor FM antenna • AM loop antenna

• Color labels for speaker cables • Speaker set-up microphone

• Instruction manual • Remote controller • AA (R6) batteries x 2



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