

TX-NR777 7.2-Channel Network A/V Receiver



THX® Certified Select™ Receiver Fills Big Rooms with Sound

With 220 W per channel on tap, you have ample power to push a full-scale speaker system to THX® Theater Reference levels without breaking a sweat. High-current amps control speaker drivers for dynamic reproduction of Dolby Atmos® and DTS:X® with VLSC™ cleansing signals of noise to make Hi-Res Audio even more transparent. Enjoy multi-room music from Chromecast-enabled apps courtesy Chromecast built-in*; stream from popular network services to supported speakers and components via DTS Play-Fi® with the Onkyo Music Control App; or connect and share audio between compatible systems using FlareConnect™ and the Onkyo Controller app. Elevating 4K Ultra HD video with object-based sound, the TX-NR777 also supports Dolby Vision™, HDR10, HLG (Hybrid Log-Gamma), and BT.2020 pass-through for the ultimate entertainment experience. * Enabled with a firmware update.

HIGHLIGHTS

- THX® Certified Select™ Reference Sound
- Supports 5.2.2-Channel Dolby Atmos® and DTS:X® Playback
- HDMI® 7 In (1 Front¹) / Main Out, and Sub Out² Supporting 4K/60 Hz, HDR10, Dolby Vision™, HLG, BT.2020, and HDCP 2.2 Pass-through
- Dynamic Audio Amplification with 4-Ohm Speaker Driving Capability
- 384 kHz/32-bit DAC and VLSC™ Filtering for Superior Clarity
- Ready for Chromecast built-in³ and DTS Play-Fi^{®3} Platforms
- 5 GHz/2.4 GHz Wi-Fi®, AirPlay, Spotify®, TIDAL, Deezer, Pandora®, and TunesIn⁴
- FlareConnect™³ Wireless Multi-room Audio

ADVANCED FEATURES

- THX Certified Select for Theater-Reference Volume
- HDMI Terminals Supporting HDR10, Dolby Vision, HLG, BT.2020, 4K/60 Hz Pass-through and HDCP 2.2
- Supports 5.2.2-Channel Dolby Atmos Playback and Dolby Surround Upmixing
- DTS:X Object-based Audio Reproduction and DTS Neural:X™ 3D Upmixing
- AccuEQ Room Acoustic Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Intuitive Operation⁵
- Stable Dual-band 5 GHz/2.4 GHz Wi-Fi[®] Connectivity
- Chromecast built-in Wireless Audio Streaming Platform
- Supports DTS Play-Fi Multi-room Audio
- AirPlay Audio Streaming from iTunes and iPad, iPhone, and iPod touch
- Supports Hi-Res Audio Including DSD 5.6 MHz/2.8 MHz⁶, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD⁷
- Supports Spotify, TIDAL, TunesIn, Pandora, and Deezer

- FlareConnect Multi-room Audio Distribution to Compatible Components and Speakers
- Powered Zone 2A / 2B Speaker Outputs and Zone 2 Line Output with DAC Supporting Digital⁸ and Analog Audio Playback
- Bluetooth® Wireless Technology for Mobiles, Laptops, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Supports Front L/R Channel Bi-Amping in 5.2-Ch Speaker Layout
- Advanced Music Optimizer Improves Compressed Digital Audio Quality, Including Bluetooth Audio
- 480i De-interlacing (480i to 480p) via HDMI for Legacy Video Formats

AMPLIFIER FEATURES

- 110 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.08% THD, 2 Channels Driven, FTC); 220 W/Ch (6 Ohms, 1 kHz, 10% THD, 1 Channel Driven)
- Dynamic Audio Amplification System Delivers Thrilling Stereo and Multichannel Performance
- High-current Power to Drive Large Speakers with 4-Ohm Resistance
- H.C.P.S. (High Current Power Supply) Transformer
- VLSC (Vector Linear Shaping Circuitry) High-frequency Noise Removal (Front L/R Channels)
- Non-Phase-Shift Amplification Circuitry for Clarity and Detail
- Discrete Output Stage Circuitry for Low Distortion
- Extruded Metal Heat Sink and Cooling Fan

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, 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 S/PDIF Audio
- 32-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
- Tone Controls (Bass/Treble) for Front L/R Channels

CONNECTION FEATURES

- 7 HDMI Inputs (1 Front) and 2 Outputs (1 Main Out, 1 Sub Out)
- 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)
- 6 Analog Audio Inputs, 1 Stereo 1/4" (3.5 mm) Analog Input (Front)
- Phono Input (MM) and Equalizer for Turntable
- 2 Subwoofer Pre-Outs
- 1/4" (6.35 mm) Headphone Jack (Front)
- Banana-plug-compatible Speaker Posts with Screw Knobs
- 1/8" (3.5 mm) Speaker Setup Mic Input (Front)
- RS-232 Serial Input for External Control Commands
- 12 V Trigger Out (Main, 100 mA) for External Component Control Integration

OTHER FEATURES

- 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 (OSD) via HDMI
- Quick Setup Guide via GUI and Easy Connection Diagram on Rear Panel
- Large Input Selector Buttons
- Economical HDMI Pass-through and Network Standby Functions
- IP Control Support for Home Automation Systems
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- Rack-mounting Kit (Optional)
- Full-sized Simple Remote Control

¹ HDMI Front Input does not support 4K/60p/4:4:4/24-bit video, HDR10, HLG, Dolby Vision, or BT.2020. ² HDMI Sub Out does not support ARC or CEC. ³ Requires a firmware update. ⁴ Availability of services may vary with region. Please confirm before purchase. Subscription may also be required. ⁵ For iOS and Android™ devices. Please check App Store or Google Play for device and OS requirements. ⁶ DSD not supported over wireless LAN. ⁷ Dolby TrueHD playback via USB input only. ⁸ Audio via HDMI inputs excluded.

TX-NR777 7.2-Channel Network A/V Receiver

THX® Certified Select™ Theater Reference Sound

THX Certified Select guarantees the same high-volume sound you experience at a commercial theater in your home. To gain certification, amplifiers must pass the industry's most severe bench-tests covering every aspect of audio performance to satisfy THX requirements. With 220 W per channel at your disposal, the TX-NR777 is ready to fill large spaces with heart-pounding sound.



Unleash Dolby Atmos® or DTS:X® Home Theater

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-NR777 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 Neural:X™ identifies spatial effects in multichannel soundtracks and upmixes for convincing 3D playback through your object-audio-ready speaker system. Dolby Surround remixes legacy sound formats for multidimensional playback in a Dolby Atmos environment.

Music Made Easy with Chromecast built-in*

Stream any music from your smartphone, laptop, or PC to the TX-NR777 with ease. Control playback with Chromecast-enabled apps you know and love from your iPhone, iPad, Android phone or tablet, Mac or Windows® laptop, or 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 in every room. Each member of your family can use their own device to listen to their own music in their room or group of rooms. DTS Play-Fi lets you easily structure a comprehensive multi-room ecosystem that satisfies virtually any need. For more information, visit www.play-fi.com.



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.



* Sharing audio from external inputs is enabled with a future firmware update. External audio inputs supporting FlareConnect may differ depending on model. Please consult individual product specification for more information. ** Download free from the App Store or Google Play.

Onkyo Controller Supports Next Generation Network Audio

Onkyo Controller collects streaming services and network-attached audio into an intuitive smartphone app. Control playback, explore services, and distribute audio all over the home via FlareConnect from one easy interface.



Wi-Fi®, AirPlay®, Spotify®, and Bluetooth®

Selectable 5 GHz/2.4 GHz Wi-Fi® assures stable connectivity so you can enjoy smooth streaming over AirPlay, the Spotify app, and the local network. Bluetooth® wireless technology also provides quick streaming from your choice of music application.



Internet Radio and Streaming Services

TIDAL, Deezer, Pandora®, and TuneIn are on board to make selecting from a massive range of music and radio programs using Onkyo Controller very simple.



Supports HDR10, HLG, Dolby Vision™, BT.2020, 4K/60 Hz, and HDCP 2.2

Six rear HDMI® inputs support pass-through of HDR10, HLG (Hybrid Log-Gamma), and Dolby Vision; the BT.2020 4K video standard; 4K/60 Hz video playback; and HDCP 2.2 for premium video content. Further, a front HDMI terminal is ideal for video camera connection, while the rear Sub Out is handy for projectors.



Powered Zone 2A/2B Audio Distribution

With a 5.2-channel layout in the media room, Powered Zone 2A/2B speaker outputs send amplified network, S/PDIF, and analog audio sources to pairs of speakers in other spaces. For 5.2.2 theater layouts, a line output is ideal for transmitting stereo sources available to the receiver to a hi-fi or amp and speakers set up elsewhere in the home. Multi-room playback is supported within Onkyo Controller app.

Note: Simultaneous playback of Zone 2A and Zone 2B is not supported, and speakers must be between 8–16 ohms impedance.

* Requires a firmware update.

SPECIFICATIONS

Amplifier Section

Power Output	
All Channels	110 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.08% THD, 2 Channels Driven, FTC)
	220 W/Ch (6 Ohms, 1 kHz, 10% THD, 1 Channel Driven)
Dynamic Power	250 W (3 Ohms, Front)
	220 W (4 Ohms, Front)
	130 W (8 Ohms, Front)
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half Power)
Input Sensitivity and Impedance	
	200 mV/47 k-Ohms (Line)
	3.5 mV/47 k-Ohms (Phono)
Rated RCA Output Level and Impedance	
	1 V/470 Ohms (Subwoofer Pre Out)
	200 mV/2.3 k-Ohms (Zone Line Out)
Frequency Response	10 Hz–100 kHz/±1 dB, -3 dB (Direct Mode)
Tone Control	±10 dB, 90 Hz (Bass)
	±10 dB, 7.5 kHz (Treble)
Signal-to-Noise Ratio	106 dB (Line, IHF-A)
	80 dB (Phono, IHF-A)
Speaker Impedance	4 Ohms–16 Ohms

Video Section

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ohms (Component Y)
	0.7 Vp-p/75 Ohms (Component Pb/Cb, Pr/Cr)
	1.0 Vp-p/75 Ohms (Composite)

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 120 V~ , 60 Hz
Power Consumption	600 W
No-Sound Power Consumption	65 W
Standby Power Consumption	0.15 W
Dimensions (W x H x D)	17 1/8" x 6 11/16" x 14 7/8" (435 x 173.5 x 378 mm)
Weight	23.1 lbs. (10.5 kg)

UPC CODE

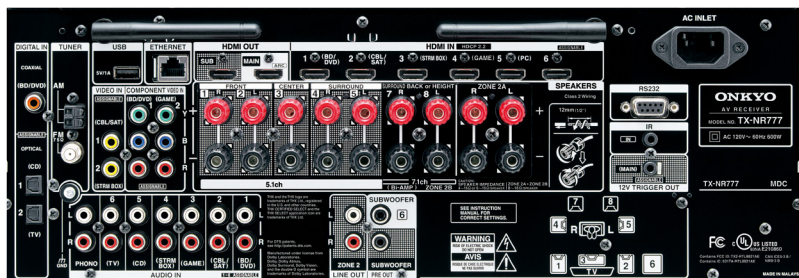
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CARTON

Dimensions (W x H x D)	21 1/4" x 10 1/4" x 17 1/16" (539 x 260 x 450 mm)
Weight	29.8 lbs. (13.5 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 with region.

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