

TX-NR737 7.2-Channel Network A/V Receiver

BLACK



Microphone for AccuEQ



THX® Theater-Reference Sound Meets Ultra HD Entertainment

Step up to THX-certified surround sound with the TX-NR737—the most potent and future-ready A/V receiver in its class. With a high-current massive transformer, discrete Three-Stage Inverted Darlington Circuitry amplification, and extremely robust construction, this heavyweight serves up floorshaking theater-reference sound. There are 4K/60 Hz-capable HDMI® inputs for Ultra HD gaming and video at 60 fps, as well as support for HDCP 2.2. As most Hollywood movie studios are adopting HDCP 2.2 copy protection for future Full HD and 4K releases (including content streamed via the internet), this is a highly desirable feature. Also included is Qdeo™ 4K upscaling technology so you can enjoy older DVDs and games in high resolution. Music lovers can choose from a selection of internet music services and stream almost any 192/24 hi-res, lossless, or compressed file format (including 5.6 MHz DSD) from compatible network-attached devices using built-in Wi-Fi® and our free remote app. Bluetooth is also standard. Combining these features with class-leading sound quality and an easy-to-use GUI, the TX-NR737 delivers powerful studio-master entertainment at an affordable price.

ADVANCED FEATURES

- THX® Select2™ Plus Certified for Theater Reference Sound
- 4K/60 Hz-Capable HDMI® Terminals for Ultra HD Entertainment¹
- Supports HDCP 2.2 for Future 4K/Full HD Video Streaming and Broadcast²
- 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 on All 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, and AUPEO!)³
- Playback Compressed, Lossless, and Hi-res Audio via Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, Apple Lossless, DSD 5.6 MHz, LPCM⁴, 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®⁵ and Android Devices⁶
- Frontside MHL™ for 1080p Video and Stills from Smartphone and Tablet
- Overlaid Input Source Preview with InstaPrevue™ Technology
- PM Bass Boost for Deep Bass and Clear Mid-Range
- Powered Zone 2 and Zone 2/3 Line-Outs for Distributed Audio Playback

- Whole House Mode for Synchronized Housewide Audio
- Bi-Amping Capability for Front Channels

¹ 4K/60 Hz video is supported on HDMI inputs 1/2/3/4, the frontside input, Main Out, and Sub Out. ² HDCP 2.2 is supported on HDMI Input 3 and Main Out only. ³ Availability of services depends on region. Some services may require a paid subscription and firmware update. Availability of third-party services advertised here is accurate at the time of publication, but may be subject to change without notice. ⁴ LPCM is supported via DLNA only. ⁵ Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. ⁶ Requires Android OS 2.1 or later.

AMPLIFIER FEATURES

- 110 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.08% THD, 2 Channels Driven, FTC); 125 W/Ch (6 Ohms, 1 kHz, 0.7% THD, 2 Channels Driven, FTC)
- VRAT (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 for 4K/60 Hz Video, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- 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
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory

CONNECTION FEATURES

- 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

- Independent Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 800 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
- RHD (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-NR737 7.2-Channel Network A/V Receiver

THX® Select2™ Plus for Reference-Level Sound

THX certification guarantees the same high volume, low-distortion sound you experience in a commercial theater in your listening room. Your TX-NR737 receiver passed more than 2,000 laboratory tests covering 14,000 data points to ensure every aspect of audio performance meets rigorous THX standards for theater-reference sound. THX Select2 Plus is recommended for screen-to-seat viewing distances of 10-12 feet (3-4 m).

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 low-distortion Three-Stage Inverted Darlington Circuitry on all channels to create a dynamic and engaging sound. Combined with high-resolution processing, the TX-NR737 packs a punch for movies while retaining finesse and musicality for two-channel playback.

Future-Ready with the Latest HDMI®

Play the latest RPG blockbuster on your Ultra HDTV at a breathtaking 60 frames per second with 7.2-channel surround sound from Onkyo. With five of the seven HDMI inputs supporting 4K/60 Hz, this dream can become reality with the TX-NR737. Even if you're not planning on upgrading to a 4K display right away, it's good to know your receiver is ready for it.

Supports HDCP 2.2 for 4K Streaming and TV

With Hollywood studios, satellite TV broadcasters, and video streaming services moving to HDCP 2.2 copy protection for future 4K and Full HD releases, it's important your A/V receiver can handle this new standard. The TX-NR737 is one of the first A/V receivers to support HDCP 2.2, making it ready for the next generation of home entertainment.

4K Video Upscaling with Qdeo™ Technology

The TX-NR737 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 sharp and clean, giving old favorites a new lease on life.

Wi-Fi® and Bluetooth Inside

The TX-NR737 has Wi-Fi and Bluetooth technology built in. Download our free control app and you've got a graphic remote control and range of streaming options in the palm of your hand. Or pair your Bluetooth-capable device and send almost any audio to your home theater. With Advanced Music Optimizer enhancement, music via Bluetooth never sounded this good.

Stream Direct from Smartphone and Tablet

For lossless audio streaming, tap on the Onkyo Remote App icon on your smartphone to find your music loaded and ready to stream with familiar song organization and playback controls. The receiver can switch on and select your preferred listening mode automatically.

Stream Network-Attached Hi-res Audio

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 albums (including 5.6 MHz DSD) 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, AUPEO!, and TunesIn, which you can browse using the 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.

Connect with MHL™

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 Upmixing

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

Powered Multi-Zone Audio and Bi-Amping

Powered Zone 2 speaker terminals (and Zone 2/3 line-outs) let you power audio in another room equipped with speakers. You can also assign surround back channels to bi-amp your front loudspeakers.

Remote Control App for Smartphone and Tablet

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

Fast Switching and Adjustment

To quickly adjust a speaker level or switch DSP modes, use the "Q" button on the remote control to overlay a transparent menu on screen. InstaPrevue™ technology is available via the Home button to preview content on any HDMI-connected device—the overlaid thumbnails let you keep an eye on a cable channel while you're watching a Blu-ray, for example.

AccuEQ Room Calibration

AccuEQ optimizes surround-sound and two-channel audio to suit your listening space. In particular, AccuEQ extracts the best possible performance from your front speakers to make stereo listening more dynamic and exciting. The system analyzes speaker setup and room acoustics from one listening position (which simplifies the calibration process) and optimizes frequency response and output levels for maximum clarity.

SPECIFICATIONS

Amplifier Section

Power Output	
All Channels	110 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.08% THD, 2 Channels Driven) 125 W/Ch (6 Ohms, 1 kHz, 0.7% THD, 2 Channels 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)
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, 30 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	
	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)
Speaker Impedance	
	4 Ohms–16 Ohms or 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–1710 kHz
FM/AM Preset Memory	
	40 Stations

General

Power Supply	AC 120V~, 60 Hz
Power Consumption	6.9 A
No-Sound Power Consumption	
	80 W
Standby Power Consumption	
	0.1 W
Dimensions (W x H x D)	
	17 1/8" x 6 7/8" x 14 13/16" (435 x 175 x 379 mm)
Weight	
	25.4 lbs. (11.5 kg)

CARTON

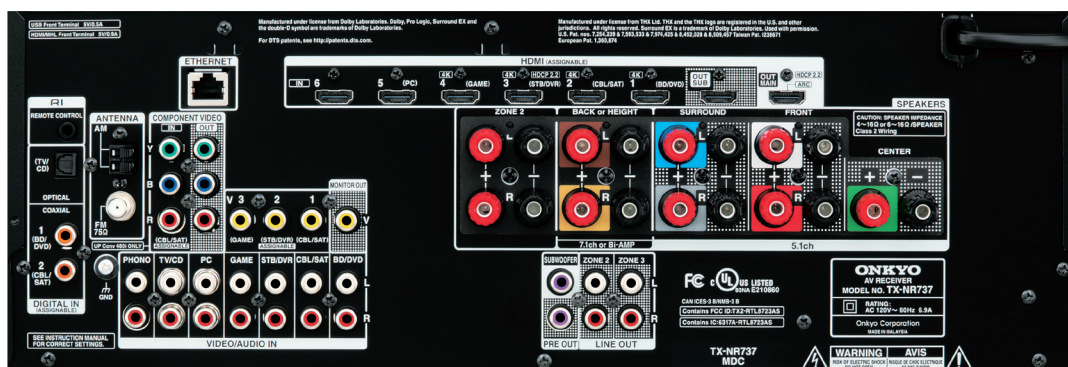
Dimensions (W x H x D)	
	22 7/16" x 11 3/4" x 18 7/16" (570 x 298 x 469 mm)
Weight	
	32.0 lbs. (14.5 kg)

UPC CODE

(B)	751398011603
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Supplied Accessories

- Indoor FM antenna • AM loop antenna • Color labels for speaker cables • Speaker setup microphone • Instruction manual • Remote controller • AA (R6) batteries x 2



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