

TX-NR809 7.2-CHANNEL NETWORK A/V RECEIVER



Listen Up If You're Serious About Home Entertainment

With its advanced processing and fabulous array of connections, the TX-NR809 is ready to lift the roof off. Eight HDMI® inputs handle all your high-def content, from master-quality audio to upscaled 4K video. Home network capability lets you bring streaming internet radio and PC audio to your living room. And the drop-down front panel conceals a plethora of one-touch audio controls and A/V inputs. Video—whether standard or high definition—gets the royal treatment from a high-quality HQV® Vida™ processor and independent ISF calibration for each source. Advanced audio options include bi-amping, 7.2 multichannel pre-outs, and distributed multi-zone audio. As you'd expect from a receiver near the top of Onkyo's mid-range line-up, construction is first-rate. A massive transformer, symmetrical L/R channels, separate power and pre-amp blocks, and a highly rigid chassis provide the bedrock for a superlative audio performance. Built with the serious home cinema fan in mind, the TX-NR809 offers a class-leading mix of power, features, and performance.

ADVANCED FEATURES

- THX® Select2 Plus™ Certified
- HDMI® Support for 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- High-Quality HQV® Vida™ VHD1900 Video Processor
- ISF (Imaging Science Foundation) Video Calibration for Optimal Video Performance
- HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvel
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Audyssey MultEQ® XT for Room Acoustic Correction
- Audyssey DSX™ and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio and Music Streaming Service Connectivity (vTuner, Last.fm®, Napster®, Spotify®)
- Powered Zone 2 and Zone 2/3 Pre-Out for Distributed Audio Playback in Multiple Room

* Availability of services depends on region.

AMPLIFIER FEATURES

- 180 W/Ch at 6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC
- WRAT (Wide Range Amplifier Technology)
- Three-Stage Inverted Darlington Circuitry
- H.C.P.S. (High Current Power Supply) Massive High-Power Transformer
- Linear Optimum Gain Volume Circuitry
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for All Audio Signals

PROCESSING FEATURES

- Dolby® TrueHD and DTS-HD Master Audio™ Decoding
- TI Burr-Brown 192 kHz/24-Bit DACs (PCM1690) for All Channels
- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Advanced Music Optimizer for Compressed Digital Music Files
- Handles Playback of Mass Storage Class USB Memory
- Theater-Dimensional Virtual Surround Function
- Direct Mode and Pure Audio Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory

CONNECTION FEATURES

- 8 HDMI® Inputs (1 Front/7 Rear) and 2 Outputs
- Universal Port for Onkyo Peripheral Devices Such as UP-A1 Dock for iPod/iPhone or UP-DT1 DAB+ Radio Tuner
- 2 USB Ports (Front/Rear)
- Compatible with UWF-1 Wireless LAN Adapter (via USB)
- 2 Component Video Inputs and 1 Output
- 5 Composite Video Inputs and 2 Outputs
- 4 S-Video Inputs and 2 Outputs
- Analog RGB Video Input (D-sub, 15 pin) for PC
- 6 Digital Audio Inputs (3 Optical and 3 Coaxial)
- 6 Analog Audio Inputs and 1 Output
- Phono Input
- Color-Coded, 7.1 Multichannel Inputs
- Color-Coded, 7.2 Multichannel Pre Outs

- Color-Coded, Banana Plug-Compatible Speaker Posts
- Bi-Amping Capability
- RS232 Port, IR Input/Output, and 12V Trigger Out (Zone 2/3)

OTHER FEATURES

- Overlaid Graphical On-Screen Display (OSD) and GUI Navigation via HDMI
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Dolby® Volume for Reference-Quality Listening Experience at Any Volume
- 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 5 ms Steps)
- Tone Control (Bass/Treble) for Front L/R and Zone 2 Channels
- Illuminated Volume Knob (White)
- Light Dimming (Display: Normal/Dim/Dimmer; Volume Knob LED: On/Off)*
- RDS (PS/RT/PTY/TP)
- 40 FM/AM Random Presets
- Firmware Updates via Ethernet and USB
- Certified with Windows® 7 and DLNA Version 1.5
- RIHD (Remote Interactive over HDMI) for System Control
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control with On-Screen Setup, Mode-Key LEDs, and Macro Presets for Four Activities

* Note: Volume knob LED is always off when display is dimmed.

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HDMI® Support for 3D Video and Audio Return Channel

The eight HDMI inputs on the TX-NR809 let you connect multiple high-def sources, such as a Blu-ray player, a gaming console, and a cable/satellite tuner. These are complemented by two HDMI outputs that let you send a pristine signal simultaneously to a pair of compatible high-resolution displays. The HDMI implementation on this receiver supports both 3D video and an Audio Return Channel, along with numerous high-resolution formats. 3D video brings exciting possibilities to home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs now on the market. Meanwhile, the Audio Return Channel allows audio content received directly by your HDTV's tuner to be sent "upstream" via HDMI to your A/V receiver, without the need for a separate S/PDIF audio cable.

Network Capability Delivers Internet Radio and Network Audio Streaming via Ethernet

As one of Onkyo's new breed of receivers that can link directly to the internet or to your home PC via a local network, the TX-NR809 takes streaming audio and internet radio to a whole new level. MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, and LPCM audio files can now be played back through your main system with unprecedented power and fidelity. The TX-NR809 also brings to life a huge array of internet radio channels from Last.fm® and vTuner, plus on-demand music streaming from Napster® and Spotify®. As well as being compatible with earlier platforms, the receiver is compatible with Microsoft's Windows® 7 platform, which includes the DLNA 1.5-specified "Play To" media-streaming feature. The TX-NR809's internet connectivity has the added benefit of making firmware updates simpler than ever.

* Availability of services depends on region.

High-Quality Video Processing with HQV® VHD1900

The sophisticated HQV VHD1900 processor is designed to enhance the quality of both standard-definition and high-definition video sources. The chip employs multi-cadence tracking, expanded 12-bit color processing, and four-field motion-adaptive de-interlacing to optimize video quality and detail. Two new HQV technologies are incorporated into the VHD1900. Auto HQV™ works to automatically enhance the incoming image. And HQV StreamClean™ cleans up compressed video in real time by eliminating mosquito and block noise from lower-quality sources such as online video sites.

Direct Digital Connection of iPod/iPhone via Front-Panel USB Port

The TX-NR809's front-panel USB port lets you access MP3, WMA, FLAC, and AAC audio files stored on a USB flash drive or iPod/iPhone. As the audio signals are

transported in digital form, rather than analog, there is much less chance of signal degradation. End result: your music sounds cleaner and more faithful to the original. A further benefit of the USB input is that it lets you use the system's remote controller to play back audio files on the connected device.

THX® Select2 Plus™ Certified

THX Select2 Plus certification is specified for rooms where the screen-to-seat viewing distance is 3 to 4 meters and the room volume is around 56 cubic meters. To achieve THX Select2 Plus certification, the TX-NR809 had to meet the world's most demanding standards for home cinema audio quality and performance, and play at reference volume levels with minimal distortion.

4K Video Upscaling and Processing via Qdeo™ Technology

The TX-NR809 offers full 4K (3840 x 2160) upscaling of standard video sources such as 480i/p, 720p, and 1080i/p. Interlaced-to-progressive conversion and scaling are performed by high-quality Qdeo technology from Marvell. Qdeo is a versatile video processor that uses algorithms designed to erase video noise and artifacts such as jaggies and feathering. Played back on a compatible wide-screen display, your Blu-ray Discs and DVDs will look more detailed and cinematic than ever.

Tailor Multichannel Audio to Your Home with Audyssey and Dolby Technologies

The TX-NR809 is equipped with Audyssey MultEQ® XT, an advanced room-correction technology with high-resolution filters for satellite speakers and subwoofers. MultEQ XT gathers frequency and time-domain measurements from up to eight positions in the listening area, to deliver a clear, well-balanced, and natural sound. Two other Audyssey technologies, Dynamic EQ® and Dynamic Volume®, work to optimize frequency response and dynamic range at all volume levels. In a similar vein, Dolby® Volume performs independent loudness adjustments to different frequencies and channels to produce a listening experience that includes all the dynamics of the original mix at whatever volume you choose. It also offers the option of maintaining playback volume at the same user-chosen level across all input sources.

Overlaid Graphical On-Screen Display and GUI Navigation

Changing the TX-NR809's settings is a seamless affair, thanks to the receiver's overlaid graphical on-screen display (OSD). Set-up menus appear overlaid on the video image you're watching, so you don't have to switch to a blank screen background. Meanwhile, a new GUI lets you smoothly navigate internet radio and iPod/iPhone contents. The OSD and GUI both operate over HDMI, making excellent use of that versatile interface.

SPECIFICATIONS

Amplifier Section

Power Output	180 W/Ch
Front L/R	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Center	180 W
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Surround L/R	180 W/Ch
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Surround Back L/R, Front High L/R, Front Wide L/R, or Zone 2 L/R	180 W/Ch
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Dynamic Power	300 W (3 Ω Front)
	250 W (4 Ω Front)
	150 W (8 Ω Front)
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half power)
Damping Factor	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 k Ω (Line)
	2.5 mV/47 k Ω (Phono MM)
Rated RCA Output Level and Impedance	200 mV/470 Ω (Pre out)
Maximum RCA Output Level and Impedance	4.6 V/470 Ω (Pre 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, 50 Hz (Bass)
	±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	110 dB (Line, IHF-A)
	80 dB (Phono MM, IHF-A)
Speaker Impedance	4 Ω –16 Ω or 6 Ω –16 Ω

Video Section

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ω (Component and S-Video Y)
	0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr)
	0.25 Vp-p/75 Ω (S-Video C)
	1.0 Vp-p/75 Ω (Composite)
Component Video Frequency Response	5 Hz–100 MHz/0 dB, -3 dB

Tuner Section

Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz
	530 kHz–1,710 kHz
FM/AM Preset Memory	40 stations

General

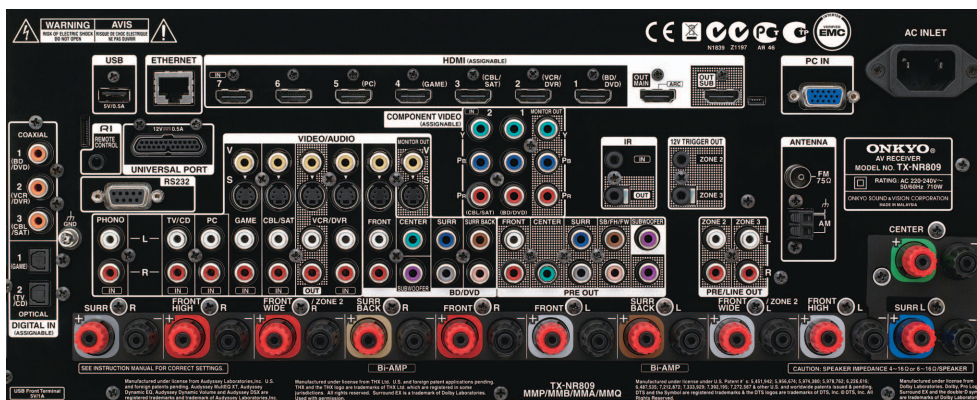
Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	710 W
Dimensions (W x H x D)	435 x 198.5 x 435.5 mm
Weight	18.3 kg

CARTON

Dimensions (W x H x D)	587 x 337 x 553 mm
Weight	22.5 kg

Supplied Accessories

- Indoor FM antenna • AM loop antenna • Speaker cable labels
- Speaker set-up microphone • Instruction manual
- Quick set-up guide • Remote controller • AA (R6) batteries x 2



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