

# TX-NR807 7.2-Channel A/V Surround Home Network Receiver

SILVER BLACK



Microphone for Audyssey

The lesser-used controls are neatly tucked away behind the drop-down panel.



## All-Round Brilliance Plus Network Capability to Unify Your Audio Life

The TX-NR807 brings together the very latest mid-range home-theatre functionality and adds one major upgrade: networking capability. An Ethernet port on the TX-NR807 allows it to receive and output audio files playing in real-time on your PC. Alternatively, you can bypass your PC and enjoy a direct connection to streaming internet radio stations through the vTuner. Naturally, the TX-NR807 also handles all of your high-definition audio and video sources—courtesy of six HDMI™ 1.3a inputs—and upscales any video input to 1080p via Faroudja DCDi Cinema™. This powerful THX® Select2 Plus™ Certified receiver also comes with Audyssey DSX™ and Dolby® Pro Logic® IIz, two new surround-sound formats that expand the spatial dimensionality of games and movies. Meanwhile, Audyssey room-correction and equalization technologies help ensure a convincing and detailed audio performance, regardless of the volume level or the shape of your room. An intelligent customizable remote controller puts the finishing touch to what is another benchmark-setting all-round performer from Onkyo.

### Processing 1080p Video and High-Def Surround Sound via HDMI 1.3a\*

Incorporating HDMI version 1.3a, along with advanced processing capabilities, the TX-NR807 makes for a powerful A/V control center. Up to six components can be connected via HDMI, including Blu-ray Disc players, gaming consoles, and set-top boxes. The system can then receive and switch high-definition video and output a pristine digital signal to your compatible HDTV. On the audio front, lossless Dolby® TrueHD and DTS-HD Master Audio™ provide a bit-for-bit multichannel soundtrack identical to the studio master track.

\*HDMI version 1.3a supports Deep Color™, x.v.Color™, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC.

### PC Audio and Internet Radio via Network Function with DLNA 1.5 Compatibility

As the first model in Onkyo's 2009 range that can connect directly to the internet or to your home PC via a local network, the TX-NR807 brings PC audio and streaming internet radio into your home entertainment set-up. Now you're just one click away from high-quality, customizable music programming. MP3, FLAC, WMA Lossless, Ogg Vorbis, and AAC audio files—whether on your PC or from the internet—can now be played back through your main system with unprecedented power and fidelity. The TX-NR807 brings to life a wide array of internet radio sources through the vTuner application. Being one of Onkyo's new generation of network-capable receivers, the TX-NR807 is fully compatible with the new DLNA 1.5 specification. A further benefit of having the receiver connected to the internet is that you can then easily update its firmware.

### Audyssey DSX™ and Dolby® Pro Logic® IIz Add New Dimensions to Surround Sound

The TX-NR807 handles two new surround-sound technologies from Audyssey and Dolby that offer exciting new ways to set up the speakers in your home theatre system. Audyssey DSX lets you incorporate "front wide" speakers, in place of the usual surround back speakers, to expand the width of the soundstage. Set up at a recommended 60° off center; these channels help to produce a more realistic soundstage and a more immersive listening experience. Alternatively, Audyssey DSX can reconfigure the TX-NR807's surround back channels to deliver "front height" channels. These channels carry ambient, non-directional audio that adds a new vertical dimension to your movies and games. Dolby Pro Logic IIz provides a similar front-height speaker option that likewise works to create a more enveloping home theatre experience.

### THX® Select2 Plus™ Certified with THX Loudness Plus™ Technology

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-NR807 must meet the world's most demanding standards for home theatre audio quality and performance, and must play at reference volume levels with minimal distortion. THX Loudness Plus is a volume control technology included in THX Select2 Plus that compensates for the tonal and spatial shifts that occur when the volume level is lowered. It automatically adjusts the levels of ambient sound and bass frequencies, so you can enjoy the true impact of movies, music, and games no matter what volume setting you use.



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## HDMI™ Video Upscaling to 1080p with Faroudja DCDi Cinema™

When it comes to video processing, the Faroudja DCDi Cinema (Directional Correlational Deinterlacing) video processor offers several advantages. This processor can accept any video signal, regardless of the source resolution, and upscale it to 1080p to match the native resolution of your high-definition display. What's more, DCDi Cinema effectively removes video artifacts such as jagged edges during the video signal deinterlacing process. You get to enjoy smooth progressive scan video images, even for fast-moving sports and action scenes.

## A Suite of Audyssey Technologies for the Ideal Listening Environment

The TX-NR807 incorporates three Audyssey technologies to help create the most suitable listening environment for your home.

### (1) Audyssey MultEQ™

Measures and removes distortion caused by room acoustics and calibrates speakers for optimal listening throughout the room.

### (2) Audyssey Dynamic Volume™

Lets you enjoy a consistent volume level for all content, while optimizing the dynamic range.

### (3) Audyssey Dynamic EQ™

Maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels.

## Universal Port for Single-Cable Connection of Optional Onkyo Dock for the iPod or DAB+ Radio Tuner

A proprietary Universal Port located on the rear side of the TX-NR807 lets you connect an optional UP-AI Dock for the iPod or UP-DTI DAB+ Radio Tuner. If you have both peripheral devices, they can easily be "daisy chained" via an input on the UP-DTI. A key advantage of the Universal Port is that it accepts video and audio signals through the same cable that sends a power supply from the receiver to the devices.

## Two High-Quality Texas Instruments DSP (Digital Signal Processing) Chips

The TX-NR807 employs two Texas Instruments DSP chips (the DA830 and DA788) to handle the advanced processing needs of Dolby® TrueHD, DTS-HD Master Audio™, Audyssey MultEQ, and post-processing. The DA830 is also specially designed to cope with the heavy demands of processing a network connection.

## Bi-Directional Preprogrammed RI Remote Control with Onscreen Setup and Macro Presets for Four Activities

The TX-NR807's remote controller offers the convenience of controlling a wide range of other devices connected to the receiver. You can select your connected devices from an on-screen list and pre-program your desired settings for each device; the receiver itself can then send these settings automatically to the remote controller. Furthermore, the TX-NR807 lets you set up macro presets for up to four activity modes, which you can control via mode-key LEDs on the remote controller. A single button-press of "My Movie", for example, can simultaneously turn on the receiver, display, and DVD player to your pre-programmed settings and start playing a disc automatically.

## ADVANCED FEATURES

- THX® Select2 Plus™ Certified with THX Loudness Plus™
- DTS-HD Master Audio™, DTS-HD High Resolution Audio™, DTS-HD Express, Dolby® TrueHD, Dolby® Digital Plus, Dolby® Pro Logic® IIz Decoding
- HDMI™ Version 1.3a to Support Deep Color™, x.v.Color™,

- LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- Audio and 1080p Video Processing via HDMI (6 Inputs and 1 Output)
- HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema™
- Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- Burr-Brown 192 kHz/24-Bit DACs Improve Jitter Performance for Clear Sound
- Two TI 32-Bit DSP Chips for Advanced Processing
- Audyssey DSX™ for New Surround Channels
- Audyssey MultEQ™ to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic Volume™ to Maintain Optimal Listening Level and Dynamic Range
- Audyssey Dynamic EQ™ for Loudness Correction
- 4 DSP Modes for Gaming: Rock, Sports, Action, and Role Playing Game (RPG)
- Network Capability for Streaming Audio Files (MP3, FLAC, Ogg Vorbis, AAC, WMA Lossless)
- Internet Radio Connectivity Through vTuner
- Certified with DLNA Version 1.5
- Firmware Updates via Network
- Powered Zone 2 and Zone 3 for Playback of Separate Sources in Other Rooms
- Universal Port for Single-Cable Connection of Optional Onkyo Dock for the iPod or DAB+ Radio Tuner
- Dual Subwoofer Pre Outs

## AUDIO & VIDEO FEATURES

- 135 W/Ch at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 Channels Driven, FTC; 180 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, IEC; 230 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, JEITA
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- WRAT (Wide Range Amplifier Technology)
- Linear Optimum Gain Volume Circuitry
- DTS-ES™ Discrete/Matrix, DTS Neo:6™, DTS 96/24™, Dolby® Digital EX™ Decoding
- DTS Surround Sensation® Speaker/Headphone Technology
- Music Optimizer™ for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- RIHD (Remote Interactive over HDMI) for System Control
- A-Form Listening Mode Memory
- Double Bass Function
- Direct Mode and Pure Audio Mode
- Non-Scaling Configuration
- Tone Control (Bass/Treble) for Front L/R Channels
- Front-Side Auxiliary A/V Input (for Camcorders, Game Consoles, etc.)
- Component Video Upscaling (Up to 1080i)
- Component Video Switching (2 Inputs and 1 Output)
- 7 Multichannel Pre Outs
- 6 Digital Inputs (3 Optical and 3 Coaxial)
- Banana Plug-Compatible Speaker Posts
- Bi-Amping Capability
- Independent Crossover Adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 250 ms in 5 ms Steps)
- 40 FM/AM Random Presets
- Compatible with RI (Remote Interactive) Dock for the iPod
- Bi-Directional Preprogrammed and Customizable RI Remote Control with Onscreen Setup, Mode-Key LEDs, and Macro Presets for Four Activities

## OTHER FEATURES

- Hi-Rigidity Flat Chassis (1.6 mm Thick)
- 4 S-Video Inputs and 2 Outputs
- 5 A/V Inputs and 1 Output
- Video Output (Monitor)

- 2 Audio Inputs and 1 Output
- Phono Input
- RS232, IR (In/Out), 12V Trigger (Zone 2/Zone 3) Connectivity
- IntelliVolume
- Headphone Jack
- Onscreen Display (OSD) via HDMI
- Display Dimmer (Normal/Dim/Dimmer)
- Aluminum Front Panel and Volume Knob

## SPECIFICATIONS

### AMPLIFIER SECTION

Power Output	
Front L/R	135 W + 135 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC) 180 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC) 230 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Center	135 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC) 180 W (6 Ω, 1 kHz, 1 channel driven, IEC) 230 W (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround L/R	135 W + 135 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC) 180 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC) 230 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround Back L/R	135 W + 135 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC) 180 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC) 230 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Dynamic Power	
	300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)

THD (Total Harmonic Distortion)	
	0.08% (1 kHz, 1 W Output)
Damping Factor	
	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	
	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)
Output Level and Impedance	
	200 mV/470 kΩ (Rec out)
Phono Overload	
	70 mV (MM 1 kHz, 0.5%)
Frequency Response	
	5 Hz–100 kHz/±1 dB, -3 dB
Tone Control	
	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	
	110 dB (Line, IHF-A)
Speaker Impedance	
	4 Ω–16 Ω or 6 Ω–16 Ω

### VIDEO SECTION

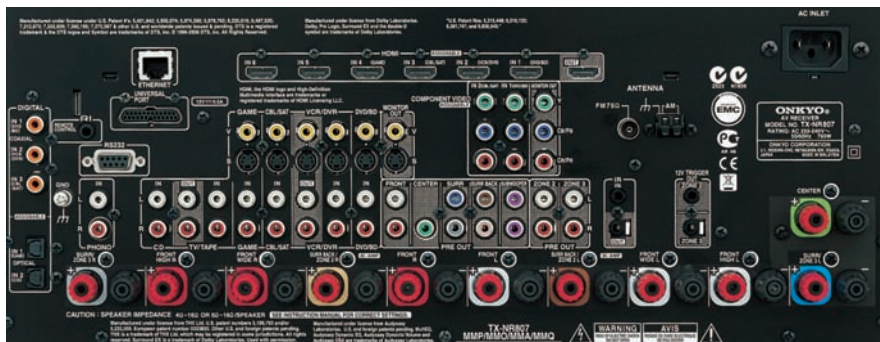
Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (Composite)
Component Video Frequency Response	
	5 Hz–100 MHz, -3 dB

### TUNER SECTION

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

### GENERAL

Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	750 W
Dimensions (W x H x D)	435 x 198.5 x 435.5 mm
Weight	18.0 kg
■ CARTON	
Dimensions (W x H x D)	587 x 337 x 553 mm
Weight	23.0 kg



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IMAGINATIVE SIGHT & SOUND

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