

TX-NR5009 9.2-CHANNEL NETWORK A/V RECEIVER



Carrying the Onkyo Legacy Forward with Power and Panache

As Onkyo's new flagship home network receiver, the TX-NR5009 packs the ultimate in clean power, precise processing, and abundant connectivity. Power is delivered through a massive toroidal transformer and multiple transformers for A/V processing, with the chassis encased in separate panels to reduce vibrations. Gold-plated HDMI® terminals, speaker posts, and A/V inputs speak to build quality of the highest order. Video output from the TX-NR5009 benefits from advanced HQV® Vida™ processing, ISF video calibration, and 4K upscaling via Qdeo™ technology. Audio, meanwhile, is processed via high-end 192 kHz/32-bit TI Burr-Brown DACs, with support for DSD Direct from SACD and DTS Neo:X™ surround-sound processing. Audyssey MultEQ® XT32 gets the most out of movie and game soundtracks and fills your music with energy and pure musicality. As your all-purpose switching center, the TX-NR5009 includes eight 3D-ready HDMI inputs, 9.2-multichannel pre-outs, and an Ethernet port for internet radio and PC audio. Stringent THX® Ultra2 Plus™ quality assurance guarantees stellar performance in even the largest home cinema spaces.

ADVANCED FEATURES

- THX® Ultra2 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
- Massive Toroidal Transformer and Two Separate Transformers for Audio and Video Processing
- Two Customized 22,000 µF Capacitors for Effective Power Supply
- Separate Anti-Vibration Panels
- VLSC™ (Vector Linear Shaping Circuitry) for All Channels
- 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 Marvell
- DTS Neo:X™, Audyssey DSX™, and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Audyssey MultEQ® XT32 to Correct for Room Acoustics
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Supports Onkyo Remote Apps for Control of A/V Receiver via iPod touch/iPhone®¹ and Android Phone®²
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio and Music Streaming Connectivity (vTuner, Last.fm, Napster, Spotify, and AUPEO!)³
- Bi-Amping Capability
- DSD Direct for Super Audio CD
- Powered Zone 2/3 and Zone 2/3 Pre-Outs, and Zone 2 Video Out for Distributed A/V Playback in Multiple Rooms
- Gold-Plated HDMI Terminals (2 Inputs and 1 Output Only)
- Gold-Plated, Machined Solid Brass A/V Terminals (19 mm-Pitch Inputs for TV/CD and Phono)

- Customized, Gold-Plated, Color-Coded, Banana Plug-Compatible Speaker Posts

*1 Compatible iPod/iPhone models: iPod touch 3rd generation or later; iPhone 3GS or later. (All models require iOS 4.2 or later) *2 Requires Android OS 2.1 or later. *3 Availability of services depends on region.

AMPLIFIER FEATURES

- 220 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

PROCESSING FEATURES

- Dolby® TrueHD and DTS-HD Master Audio™ Decoding
- TI Burr-Brown 192 kHz/32-Bit DACs (PCM1795 x 6) 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

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 (1 Front/1 Rear)
- Compatible with UWF-1 Wireless LAN Adapter (via Front-Panel USB Port)
- 3 Component Video Inputs and 1 Output

- 5 Composite Video Inputs and 2 Outputs
- 4 S-Video Inputs and 2 Outputs
- Analog RGB Input (D-sub, 15 pin) for PC Video
- 7 Digital Audio Inputs (4 Optical and 3 Coaxial)
- 8 Analog Audio Inputs and 1 Output
- Phono Input
- Color-Coded, 7.1 Multichannel Inputs
- Color-Coded, 9.2 Multichannel Pre-Outs (Including 2 Independent Subwoofer Pre-Outs)
- 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 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 All Channels
- Light Dimming (Display: Normal/Dim/Dimmer; Volume Knob LED: On/Off)*
- RDS (PS/RT/PTY/TP)
- 40 FM/AM Random Presets
- 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.

TX-NR5009 9.2-CHANNEL NETWORK A/V RECEIVER

Onkyo Remote Apps for iPod touch/iPhone and Android

The Onkyo Remote App for iPod touch/iPhone^{®1} and the Onkyo Remote App for Android^{®2} both provide an intuitive way to operate Onkyo network A/V receivers. At your fingertips, you have the ability to control input sources, adjust settings, and enjoy your content more seamlessly than ever. The two Remote Apps are available separately as free downloads.

^{*1} Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. ^{*2} Requires Android OS 2.1 or later.

Separate Panel Construction

The TX-NR5009 features separate aluminum panels for the sides and front to reduce unwanted vibrations caused by internal resonance. Compared to a one-piece chassis design, this construction method offers greater rigidity and improved noise reduction.

Network Capability Delivers Internet Radio and Network Audio Streaming via Ethernet

Linking directly to the internet or to a media server or home PC via a local network, the TX-NR5009 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-NR5009 also brings to life a huge array of internet radio channels from Last.fm and vTuner, plus on-demand music streaming from Napster, Spotify, and AUPEO![®]. 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-NR5009's internet connectivity has the added benefit of making firmware updates simpler than ever.

^{*Availability of internet radio and music streaming services depends on region.}

THX[®] Ultra2 Plus[™] Certified

The ultimate benchmark for home audio performance, THX Ultra2 Plus is specified for rooms where the screen-to-seat viewing distance is more than 4 meters and the room volume is 85 cubic meters or greater. To achieve THX Ultra2 Plus certification, the TX-NR5009 must meet the world's most demanding standards for home cinema audio quality and performance, and must play at reference volume levels with minimal distortion.

High-Quality Video Processing with HQV[™] Video[™] VHD1900

The sophisticated HQV Video VHD1900 processor enhances 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[™], which automatically enhances the incoming image; and HQV StreamClean[™], which cleans up compressed video in real time by eliminating mosquito and block noise from lower-quality sources such as online video sites.

4K Video Upscaling

The TX-NR5009 employs Qdeo technology from Marvell to achieve full 4K (3840 x 2160) upscaling of 1080p video sources—even sources that have been upscaled to 1080p from lower resolutions by on-board HQV Video technology. Played back on a compatible wide-screen display, your Blu-ray Discs and other high-def content will look more detailed and cinematic than ever.

Harnessing Power for Audio Performance

Onkyo's H.C.P.S. (High Current Power Supply) concept is based around power transformers with the capability to respond to the wide dynamics of home cinema. In the case of the TX-NR5009, a massive toroidal transformer improves power efficiency and radiates very little noise into the surrounding circuitry, while two additional transformers cater to audio and video processing.

VLSC[™] (Vector Linear Shaping Circuitry)

Onkyo's VLSC employs a unique digital-to-analog conversion circuit to mitigate the effects of signal noise. Data is converted between discrete sampling points, which are then joined with analog vectors in real-time to produce a continuous output wave form. The result—a noiseless, smooth analog signal based on the digital source.

DTS Neo:X[™] Adds Extra Dimensions to Surround Sound

The TX-NR5009 is one of the first receivers in the world to feature DTS Neo:X, a new technology that offers a multitude of ways to set up the speakers in a 9.1-channel home cinema system. A basic 5.1-channel set-up can be complemented by one of three different arrangements: (1) You can add surround back and front-height speakers to bring out ambient, non-directional sounds; (2) You can add surround back and front-wide speakers to provide a more expansive soundstage; or (3) You can add front-height and front-width speakers to create an immersive space without needing to install rear speakers.

SPECIFICATIONS

Amplifier Section

Power Output	220 W/Ch
Front L/R	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Center	220 W
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Surround L/R	220 W/Ch
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Surround Back L/R	220 W/Ch
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Front High L/R, Front Wide L/R, or Zone 2/3 L/R	220 W/Ch
	(6 Ω , 1 kHz, 1%, 1 channel driven, IEC)
Dynamic Power	400 W (3 Ω Front)
	300 W (4 Ω Front)
	180 W (8 Ω Front)

THD+N (Total Harmonic Distortion + Noise)
0.05% (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
1.0 V/470 Ω (Pre out)

Maximum RCA Output Level and Impedance
5.5 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)
0.28 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 MHz

FM/AM Preset Memory 40 stations

General

Power Supply AC 220–240 V~, 50/60 Hz

Power Consumption 1,160 W

Dimensions (W x H x D) 435 x 198.5 x 463.5 mm

Weight 25.0 kg

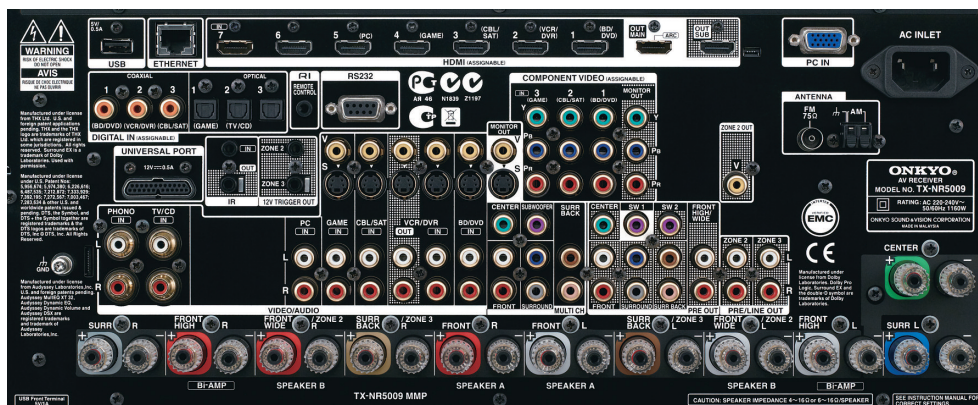
CARTON

Dimensions (W x H x D) 610 x 337 x 594 mm (Tentative)

Weight 29.5 kg (Tentative)

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



Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. THX Ultra2 Plus is a trademark of THX Ltd. THX may be registered in some jurisdictions. All rights reserved. Manufactured under license from Dolby Laboratories. Dolby Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories. DTS, the Symbol, and DTS + the Symbol together are registered trademarks, and the DTS logos are trademarks of DTS, Inc. Manufactured under license from Audyssey Laboratories, Inc. U.S. and foreign patents pending. Audyssey MultEQ XT32, Audyssey Dynamic EQ, and Audyssey Dynamic Volume are registered trademarks, and Audyssey DSX is a trademark of Audyssey Laboratories, Inc. HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. iPhone, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. "Made for iPod" and "Made for iPhone" mean that an electronic device has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this device with iPod or iPhone may affect wireless performance. Android is a trademark of Google Inc. x.v.Color is a trademark of Sony Corporation. Windows 7 and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Qdeo and QuietVideo are trademarks of Marvell or its affiliates. HQV StreamClean, and Auto HQV are trademarks or registered trademarks of Integrated Device Technology, Inc. VLSC, WRAT, Music Optimizer, and Theater-Dimensional are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.

ONKYO

Onkyo Sound & Vision Corporation 2-1 Nishin-cho, Nayagawa-shi, Osaka 572-8540, JAPAN <http://www.onkyo.com/>
Onkyo Europe Electronics GmbH Liegertstrasse 6, 82194 Grobenzell, GERMANY Tel: 49-8142-4401-0 Fax: 49-8142-4401-555 <http://www.eu.onkyo.com/>
Onkyo Europe Electronics GmbH (UK Branch) The Coach House, 81A High Street, Marlow, Buckinghamshire SL7 1AB, UNITED KINGDOM Tel: +44(0)1628-473350 Fax: +44(0)1628-401700
<http://www.onkyo.co.uk/>