

TX-NR3007 9.2-Channel A/V Surround Home Network Receiver

BLACK SILVER



Microphone for Audyssey



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



A High-End Home Entertainment Hub with Network Capability and Supreme Processing Power

In one powerhouse unit, the TX-NR3007 combines the finesse and flexibility of a ballerina with the balance and brawn of a sumo wrestler. 9.2 audio channels expand the possibilities both for multi-zone playback and for the new surround dimensions of Audyssey DSX™ and Dolby® Pro Logic® IIz. Advanced networking capability, meanwhile, lets you bring streaming internet radio and PC-based music files into your home entertainment set-up. Digital audio signals are converted by Onkyo's VLSC™ into smooth, noiseless analog waveforms, while selected Audyssey and Dolby technologies maintain a well-balanced frequency response and dynamic range at any volume. Video processing on the TX-NR3007 is also second to none, with 1080p upscaling of any video source via HQV Reon-VX. To witness Onkyo's renowned attention to build quality, check out the fully isolated power amp and pre-pro, along with the independent power supplies for system, video, and audio circuitry. In short, if you're serious about building a home entertainment network on the firmest possible foundations, look no further than the TX-NR3007.

Advanced Video Processing and 1080p Upscaling with HQV Reon-VX

HQV Reon-VX is the most sophisticated video-processing chip available for home theater. It provides the ultimate support for 1080p scaling; for filtering of jaggies and artifacts; and for the reduction of random, "mosquito", and block (codec) noise. HQV Reon-VX also enables color region enhancement and the rendering of more than one billion colors.

PC Audio and Internet Radio via Network Function with DLNA 1.5 and Windows 7 Compatibility

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-NR3007 takes streaming audio and internet radio to a whole new level. MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, and LPCM audio files—whether from your PC or from the internet—can now be played back through your main system with unprecedented power and fidelity. The TX-NR3007 brings to life a wide array of internet radio sources through the vTuner application. As well as being compatible with earlier platforms, the receiver is compatible with Microsoft's new Windows 7 platform, which includes the DLNA 1.5-specified "Play To" media-streaming feature. Another benefit of having the TX-NR3007 connected to the internet is that you can then easily update its firmware.

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

Incorporating HDMI version 1.3a and advanced processing capabilities, the TX-NR3007 works as a powerful A/V control center. Six rear-side

HDMI inputs, along with a convenient front-side one, enable connection of up to seven components, including Blu-ray Disc players, gaming consoles, and set-top boxes. The system can then receive and switch high-definition video signals and send a pristine digital signal to two different output locations—for example, to two separate high-definition displays. 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.

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

The 9.2-channel TX-NR3007 handles two new surround-sound technologies from Audyssey and Dolby that offer exciting new ways to set up the speakers in your home theater system. Audyssey DSX lets you augment a standard 7.1-channel surround set-up with two "front wide" channels. Extra speakers, positioned 60° off center, expand the width of the soundstage and help to produce a more realistic and immersive listening experience. Alternatively, Audyssey DSX can be configured 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 theater experience. With Dolby Pro Logic IIz, overhead effects in games and movies are more convincingly located than ever before.



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THX® Ultra2 Plus™ Certified with THX Loudness Plus™ Technology

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-NR3007 must meet the world's most demanding standards for home theater 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 Ultra2 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.

Tailor Multichannel Audio to Your Home with Audyssey and Dolby Technologies

The TX-NR3007 is equipped with MultEQ™ XT, Audyssey's most powerful room-correction technology. 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. It also offers the option of maintaining playback volume at the same user-chosen level across all input sources.

ISF (Image Science Foundation) Video Calibration for Accurate Video Reproduction

The TX-NR3007 is equipped with industry-leading ISF (Image Science Foundation) video calibration to dramatically improve your home theater by enabling you to adjust the brightness, hue, contrast, saturation, and gamma levels on all video inputs. Transforming your A/V receiver into a video hub, this function ensures that every video source is independently calibrated for your connected high-definition display. What's more, ISF video calibration has been shown to improve energy savings in displays and projectors by up to 50%.

Independent Power Supplies and Isolated Pre-Processor/Amplifier Construction

To prevent the fluctuating power demands of different sections of circuitry from interfering with one another, the TX-NR3007 features independent power supplies for the audio and video sections, as well as for the rest of the system. Furthermore, the TX-NR3007's power amp block and pre-amp are perfectly isolated. The power amp employs highly efficient "push-pull" amplification, whereby one output device amplifies the positive half of the waveform and another the negative half. Any distortion that might occur through this process is largely eliminated by three-stage inverted Darlington circuitry.

VLSC™ (Vector Linear Shaping Circuitry) and Burr-Brown 192 kHz/24-Bit Audio DACs

The TX-NR3007 features Onkyo's proprietary high-end digital-to-analog conversion circuitry—VLSC—to mitigate signal noise. It also employs Burr-Brown 192 kHz/24-bit audio DACs (PCM1796), for all channels and for non-scaling configuration circuitry. These DACs use an advanced Texas Instruments architecture to improve tolerance to clock jitter and achieve an excellent dynamic performance.

ADVANCED FEATURES

- THX® Ultra2 Plus™ Certified
- DTS-HD Master Audio™, DTS-HD High Resolution Audio™, Dolby® TrueHD, Dolby® Digital Plus 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
- DSD Direct for Super Audio CD

- Audio and 1080p Video Processing via HDMI (1 Front/6 Rear Inputs and 2 Outputs [Main/Sub])
- HDMI Video Upscaling to 1080p with HQV Reon-VX
- Massive Transformer and Two Separate Transformers for Audio and Video Processing
- New Custom-Designed, Large-Size Transistors to Drive High Currents
- Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- Burr-Brown 192 kHz/24-Bit DACs (PCM1796 x 6) for All Channels
- Ultra-Low-Jitter PLL (Phase Locked Loop) Circuitry to Improve Audio Quality
- Three TI (Aureus™) 32-Bit DSP Chips (DA830 x 1, DA788 x 2) for Advanced Processing
- VLSC™ (Vector Linear Shaping Circuitry) for All Channels
- ISF (Image Science Foundation) Video Calibration
- Audyssey DSX™ and Dolby® Pro Logic® IIz for New Surround Channels
- Audyssey MultEQ™ XT 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
- Dolby® Volume for Reference-Quality Listening Experience at Any Volume
- Network Capability for Streaming Audio Files (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio Connectivity Through vTuner
- Certified with Windows 7 and DLNA Version 1.5
- Bi-Amping and BTL (Bridged Transless) Capability
- Powered Zone 2 and Zone 3 for Playback of Separate Sources in Other Rooms
- Zone 2 Monitor Output (Composite)
- Universal Port for Single-Cable Connection of Optional Onkyo Dock for the iPod
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG (Role Playing Game)
- 2 Independent Subwoofer Pre Outs

- 5 A/V Inputs and 1 Output
- Monitor Outputs (Component, Composite, and S-Video)
- 3 Audio Inputs and 1 Output
- Phono Input
- Machined Solid Brass, 19 mm-Pitch Audio Inputs (CD and Phono)
- Color-Coded 7.1-Multichannel Inputs
- RS232 and IR (In/Out) Connectivity
- 12V Trigger Out (Zone 2/Zone 3)
- Onscreen Display (OSD)
- Aluminum Front Panel and Volume Knob
- Firmware Updates via Ethernet and USB
- Compatible with RI (Remote Interactive) Dock for the iPod
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control with Backlight, Onscreen Setup, Mode-Key LEDs, and Macro Presets for Four Activities

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	250 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Center	250 W (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround L/R	250 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround Back L/R	250 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Front Wide L/R or Front High L/R	250 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Dynamic Power	
	320 W (3 Ω, Front)
	270 W (4 Ω, Front)
	160 W (8 Ω, Front)

THD (Total Harmonic Distortion)	
	0.05% (Rated power)

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 Ω (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, 20 kHz (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/Ca, 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	
	1,060 W
Dimensions (W x H x D)	
	435 x 198.5 x 463.5 mm
Weight	
	25.0 kg

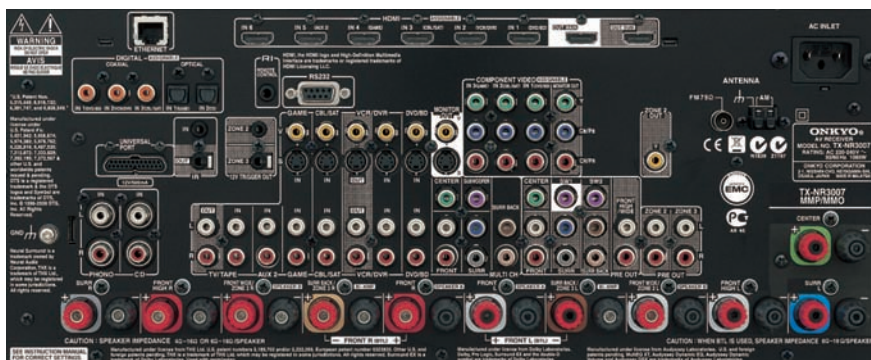
■ CARTON	
Dimensions (W x H x D)	
	594 x 337 x 576 mm
Weight	
	30.8 kg

AUDIO & VIDEO FEATURES

- 250 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 Surround Sensation™ Speaker/Headphone Technology
- Neural-THX® Surround Decoder
- Music Optimizer™ for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- RIHD (Remote Interactive over HDMI) for System Control
- Direct Mode and Pure Audio Mode
- Front-Side Auxiliary A/V Input (for Camcorders, Game Consoles, etc.)
- USB Port for an MP3 Audio Device (Audio Only)
- Component Video Upscaling (Up to 1080i)
- Component Video Switching (3 Inputs and 1 Output)
- Color-Coded, 9 Multichannel Pre Outs
- 6 Digital Inputs (3 Optical and 3 Coaxial)
- Independent Crossover Adjustment for F/C/S/SB/FH/FW (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

OTHER FEATURES

- High-Rigidity Flat Chassis (1.6 mm Thick)
- 4 S-Video Inputs and 1 Output



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