Escape into THX®-Certified Surround Sound

Movie, music, and gaming enthusiasts can now step up to realistic THX® Select2 Plus™-certified surround sound for less money down with the new TX-NR616 Network A/V Receiver. Onkyo’s acclaimed WRAT amplifier with three-stage inverted Darlington circuitry delivers cinema-like power in the home. With Audyssey DSX® expansion, you can add extra Front Height channels for more enveloping surround sound, while 2EQ® acoustic correction guarantees optimal performance in any room. Eight HDMI® inputs handle 3D content, HD audio, and video display upsampled to 4K with onboard Qdeo™ technology. The MHL/HDMI input lets you connect a smart phone for smooth 1080p playback on your TV. Wireless home networking, meanwhile, opens up an exciting world of internet radio and cloud-based music streaming. You can even enjoy your multi-format PC-based music collection over Wi-Fi with an optional USB adapter. Intuitive system control—including audio distribution in multiple rooms—is provided by Onkyo’s remote apps for iPod touch/iPhone and Android phone, or press the Quick Set-Up button on the supplied remote for instant mid-program adjustments. Visual input selection with InstaPrevue™ technology rounds out what is an exceptionally refined and affordable THX receiver.

ADVANCED FEATURES
• THX® Select2 Plus™ Certified
• HDMI® Support for 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio®, DSD/Audio, Super Audio CD, Multichannel PCM, and CEC
• Three-Stage Inverted Darlington Circuitry
• HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell
• MHL (Mobile High-Definition Link) for Smart Phone Content on HDTV
• Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
• Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
• Internet Radio and Cloud Music Streaming Service Connectivity (Last.fm, M3U/MP3, Spotify, AUPEO!, Somy, vTuner)  
• Playback of Audio Files Through Local Network (MP3, WMA, WMAs, WMA Lossless, FLAC, WAV, Ogg, Vorbis, AAC, APE, LPCM)
• Supports Onkyo Remote Apps for iPod touch/iPhone® and Android Phone®
• Audyssey DSX® and Dolby® Pro Logic® IIz for Expanded Surround Channels
• Overtail On-Screen Display (OSD) with Quick Set-Up and Home Menu
• Powered Zone 2 and Zone 2/3 Line-Outs for Distributed Audio Playback in Multiple Rooms

AMPLIFIER FEATURES
• 160 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC); 175 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
• WRAT (Wide Range Amplifier Technology)
• H.C.P.S. (High Current Power Supply) Massive Power Transformer
• Discrete Output Stage Circuitry
• Optimum Gain Volume Circuitry
• PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio

PROCESSING FEATURES
• TI Burr-Brown 192 kHz/24-Bit DACs 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
• Theater-Dimensional/Surround Function
• Direct Mode and Pure Audio Mode

CONNECTION FEATURES
• 8 HDMI Inputs (1 Front/4 Rear) and 2 Outputs
• 2 USB Ports (1 Front/1 Rear)
• Mass Storage Class USB Memory Playback Capability
• Compatible with Optional UWF-1 Wireless LAN Adapter via USB
• 4K-capable (720p/1080i) Component Video Switching (1 Input and 1 Output)
• 5 Composite Video Inputs (1 Front/4 Rear) and 1 Output
• 4 Digital Audio Inputs (2 Optical and 2 Coaxial)
• 6 Analog Audio Inputs
• 2 Parallel Subwoofer Pre-Outs
• Color-Coded, Banana Plug-Compatible Speaker Posts (Except Zone 2)

OTHER FEATURES
• Audyssey DynamicEQ® for Room Acoustic Correction
• Audyssey DynamicVolume® to Maintain Optimal Listening Level and Dynamic Range
• Hybrid Standby Function to Reduce Power Consumption
• 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 at 48 kHz)
• Tone Control (Bass/Treble) for Front L/R Channels
• Light Dimmer (Display Normal/Dim/Dimmer; Volume Knob LED: On/Off)*
• RDS (PS/RT/PTY/TPY) (European Model only)
• 40 FM/AM Random Presets
• Certified with Windows® 7 and DLNA Version 1.5
• Firmware Updates via Ethernet and USB
• RIHD (Remote Interactive over HDMI) for System Control
• Preprogrammed RI (Remote Interactive) Remote Control

*Note: Volume knob LED is always off when display is dimmed.
Wireless Cloud Streaming, Internet Radio, and PC-Based Music

Connecting to your home network wirelessly via a UPnP Wireless LAN Adapter (sold separately), or using a standard LAN cable, the TX-NR616 makes streaming audio and internet radio easy. You can also play MP3, WMA, WMA Lossless, FLAC, WAV, Vorbis, AAC, and LPCM audio files stored on your PC through your Onkyo home cinema system using streaming power and fidelity. The receiver offers easy access to internet radio channels from Last.fm and vTuner plus cloud-based music streaming from Spotify, ALPETO, Smiti, and MYTunes™. 

Mobile High-Definition Link for Smart Phone Movies and Photos on HDTV

The TX-NR616’s front-panel HDMI port is designed for the connection of mobile phones and other portable electronic devices using the new MHL standard. MHL allows you to display full 1080p video and still images on your HDTV with up to 7.1 channels of surround sound. Use the receiver’s remote to control playback from your phone as it receives a handy recharge.

InstaPrevue™ Technology Makes Switching Sources Easy

The TX-NR616 incorporates InstaPrevue visual port management technology, making input source selection much easier. InstaPrevue technology provides a live video thumbnail of the available content on your devices connected via HDMI. You no longer have to remember that your gaming console is connected to Port 3, or your Blu-ray player to Port 1, for example—you can see what’s playing and choose accordingly.

THX® Select2 Plus™ Certified

THX Select2 Plus certification is specified for rooms where the screen-to-seat viewing distance is three to four meters and the room volume is around 56 cubic meters. To achieve THX Select2 Plus certification, the TX-NR616 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-NR616 offers full 4K (4096 x 2160) upscaling of standard video sources such as 480p, 720p, and 1080p. Interlace-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 before.

Onkyo Remote Apps for iPod touch/iPhone and Android Phone

The Onkyo Remote App for iPod touch/iPhone and Onkyo Remote for Android phone both provide an intuitive way to operate Onkyo network AV receivers. Control input sources, adjust settings, and play audio stored in a smartphone wirelessly (Android phone only) using the application’s interactive graphical display. The two Remote Apps are available separately as free downloads.

Note: 4K video playback requires a 4K-compatible TV. HDMI pass-through of 4K and cinematic than ever.

Innovative Design and Premium Build Deliver Spectacular Sound

The TX-NR616 incorporates three-stage inverted Darlington output transistors for a high-quality energy flow to Onkyo’s proven WRAT (Wide Range Audio Technology). The circuit design ensures low negative feedback for reduced distortion and improved handling of speaker impedance fluctuations. Quality circuitry dovetails with a heavy-duty power supply to deliver instantaneous current in response to signal gains. The result is clear, effortless sound under heavy loads. Furthermore, the TX-NR616 features separate electronic components at the output stage—there are no cheap shortcuts to THX® sound.

Overlaid On-Screen Display with Quick Setup Menu

The receiver’s HDMI-linked On-Screen Display (OSD) makes initial setup and in-program calibration very easy. The ‘Q’ button on your remote overlay a ‘Quick Setup’ menu on the program you’re watching. This handy shortcut includes the most frequently used settings, and helps you optimize your home cinema’s performance with the minimum of disruption. The ‘Home’ button accesses standard set-up menus for more detailed adjustment.

Direct Digital iPod/iPhone Connection for Cleaner Sound

The receiver’s front-panel USB port lets you play MP3 and AAC stored on an iPod/iPhone, and FLAC audio files stored on a flash-memory device using the system’s own remote for track selection and playback. For quality music, you will also sound much cleaner and clearer, as the audio signal is transported in digital form (rather than analog) via the direct digital connection.

Audyssey DSX™ and Dolby® Pro Logic IIz for Three-Dimensional Surround Sound

The TX-NR616 incorporates surround sound technologies from Audyssey and Dolby to offer greater flexibility in the setup of your home cinema. Audyssey DSX can expand 5.1-channel audio soundtracks to incorporate additional Front Height channels, while the Dolby system also adds two Height channels and stereo source expansion. A seven-channel setup provides a more detailed, realistic, and three-dimensional soundstage, with the extra channels carrying subtle directional and ambient effects.

SPECIFICATIONS

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<tr>
<th>Amplifier Section</th>
<th>Power Output</th>
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<tr>
<td>Front L/R</td>
<td>160 W/Ch (6.5 kHz, 1% THD, 1 Channel Drive, 8 Ω)</td>
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<tr>
<td>Center</td>
<td>80 W/Ch (6.5 kHz, 1% THD, 1 Channel Drive, 8 Ω)</td>
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<tr>
<td>Surround L/R</td>
<td>100 W/Ch (6.5 kHz, 1% THD, 1 Channel Drive, 8 Ω)</td>
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<td>THX Select2 Plus</td>
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<td>Dolby TrueHD</td>
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