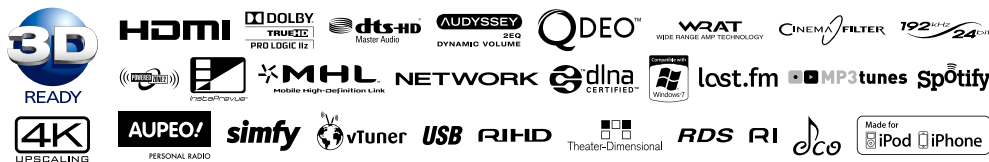


TX-NR515 7.2-Channel Network A/V Receiver

BLACK SILVER



Microphone for Audyssey



Feature-Loaded Network Receiver Offers Maximum Value for Money

The TX-NR515 receiver checks every box on your home cinema wishlist. In fact, we've over-delivered. Our acclaimed WRAT amplifier delivers room-filling sound through 7.2 channels with Dolby® Pro Logic® IIz expansion. Audyssey's 2EQ, Dynamic Volume®, and Dynamic EQ® systems are standard. A class-leading eight HDMI® inputs handle Dolby® TrueHD and Dolby DTS-HD Master Audio™, the latest games, and 3D movies; the front-panel HDMI Mobile High-Definition Link displays 1080p smartphone content; there are two HDMI outputs for connection of a TV and a movie projector; and Marvell's Qdeo™ technology upscales video to an astonishing 4K (4096 x 2160 pixels). Want music? There's home networking for playback of your multi-format PC-based library, and full integration of cloud streaming and internet radio services. You can connect your iPod, iPhone, or flash drive via USB and select tracks with the supplied remote controller. Input selection with InstaPrevue™ technology, overlaid OSD, multi-zone capability, and system control using iPod touch/iPhone and Android phone are all included. With the TX-NR515, the only thing missing is a hefty price tag.

ADVANCED FEATURES

- 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
- 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
- Internet Radio and Cloud Music Streaming Service Connectivity (Last.fm, MP3tunes, Spotify, AUPEO!, Simfy, vTuner)^{*1}
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Supports Onkyo Remote Apps for iPod touch/iPhone^{*2} and Android Phone^{*3}
- Dolby® Pro Logic® IIz for Expanded Surround Channels
- Audyssey 2EQ for Room Acoustic Correction
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Overlaid On-Screen Display (OSD) with Quick Set-Up and Home Menu

- Powered Zone 2 and Zone 2 Line-Out for Distributed Audio Playback in Another Room
- Hybrid Standby Function to Reduce Power Consumption

*1 Availability of services depends on region. Some services may require a firmware update. *2 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. *3 Requires Android OS 2.1 or later.

AMPLIFIER FEATURES

- 130 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC); 160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- WRAT (Wide Range Amplifier Technology)
- H.C.P.S. (High Current Power Supply) Massive High 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 Virtual Surround Function
- CinemaFILTER™
- Direct Mode and Pure Audio Mode

CONNECTION FEATURES

- 8 HDMI Inputs (1 Front/7 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
- HDTV-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)
- 5 Analog Audio Inputs
- 2 Parallel Subwoofer Pre-Outs
- Color-Coded, Banana Plug-Compatible Speaker Posts (Except Zone 2)

OTHER FEATURES

- Crossover Adjustment (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
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- RDS (PS/RT/PTY/TP) (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



TX-NR515 7.2-Channel Network A/V Receiver

Cloud-Based Audio Streaming and Internet Radio Over the Home Network

Connecting to the internet and your home PC via a local network, the TX-NR515 makes streaming audio and internet radio easy. You can also play MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, and LPCM audio files stored on your PC through your Onkyo system with stunning power and fidelity. The receiver offers access to internet radio channels from Last.fm and vTuner, plus cloud-based music streaming from Spotify, AUPEO!, Simfy, and MP3tunes*. Internet connectivity has the added benefit of making firmware updates simpler than ever.

*Availability of services depends on region. Some services may require a firmware update.

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

The TX-NR515'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-NR515 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.

Onkyo Remote Apps for iPod touch/iPhone and Android Phone

The Onkyo Remote App 2 for iPod touch/iPhone*1 and Onkyo Remote for Android phone*2 both provide an intuitive way to operate Onkyo network A/V 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.

*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.

Save Power with Hybrid Standby

Hybrid Standby provides 'HDMI' functionality while the receiver sleeps, so you don't have to fully power up to watch a Blu-ray or play a game using just your TV's sound. The receiver also maintains a local network connection when on Hybrid Standby mode, so you can switch the unit on at any time using the Onkyo Remote Apps for iPod touch/iPhone and Android phone.

4K Video Upscaling and Processing via Qdeo™ Technology

The TX-NR515 offers full 4K (4096 × 2160) upscaling of standard video sources such as 480/p, 720p, and 1080/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.

Note: 4K video playback requires a 4K-compatible TV. HDMI pass-through of 4K content from source devices is not supported.

WRAT (Wide Range Amplifier Technology) Delivers Higher Fidelity

Onkyo's WRAT concept was developed to improve signal-to-noise ratios, and enhance the fidelity of amplified audio. The technologies work to reduce noise across the frequency range, guaranteeing a clear, well-balanced performance. It does this by employing a low negative-feedback amplifier design; using "closed" ground-loop circuitry to cancel noise from individual circuits; and by ensuring high instantaneous-current capability to cancel reflex energy and impedance fluctuations from the speakers.

Overlaid On-Screen Display with Quick Set-Up Menu

The receiver's HDMI-linked On-Screen Display (OSD) makes initial set-up and in-program calibration very easy. The 'Q' button on your remote overlays 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.

Dolby® Pro Logic® Ilz for a More Enveloping Sound Field

Pro Logic Ilz creates a surround-sound experience from any movie or music source—even a stereo one. Pro Logic Ilz also enables you to incorporate two "front height" speakers that carry ambient audio effects for games and movies.

Audyssey Technologies Optimize Home Cinema Performance

The TX-NR515 comes equipped with three sound-enhancing Audyssey technologies.

- (1) **Audyssey 2EQ** tailors multi-channel audio for your home theater speaker set-up by measuring three room positions and applying a resolution filter to the satellite speakers to correct for room acoustics.
- (2) **Audyssey Dynamic EQ** maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels, so you can enjoy the natural dynamics of your content regardless of the volume.
- (3) **Audyssey Dynamic Volume** automatically compensates for volume fluctuations in different audio content—for example, during commercial breaks—while optimizing the dynamic range.

SPECIFICATIONS

Amplifier Section

Power Output	
Front L/R	130 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Center	130 W (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 160 W (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Surround L/R	130 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Surround Back L/R, Front High L/R, or Zone 2 L/R	130 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Dynamic Power	180 W (3 Ω, Front) 160 W (4 Ω, Front) 100 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 Ω (Line)
Rated RCA Output Level and Impedance	200 mV/2.2 kΩ (Line Out)
Maximum RCA Output Level and Impedance	2.0V/2.2 kΩ (Line Out)
Frequency Response	5 Hz–100 kHz/+1 dB, -3 dB (DSP Bypass)
Tone Control	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	100 dB (Line, IHF-A)
Speaker Impedance	6 Ω–16 Ω

Video Section

Input Sensitivity/Output Level and Impedance	
Video	1.0Vp-p/75 Ω (Component Y) 0.7Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 1.0Vp-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 230V–50 Hz (Asian Model: AC 220–240V–50/60 Hz)
Power Consumption	480 W (Asian Model: 540 W)
Standby Power Consumption	0.2 W
Dimensions (W x H x D)	435 x 173.5 x 328 mm
Weight	9.2 kg (Asian Model: 9.6 kg)

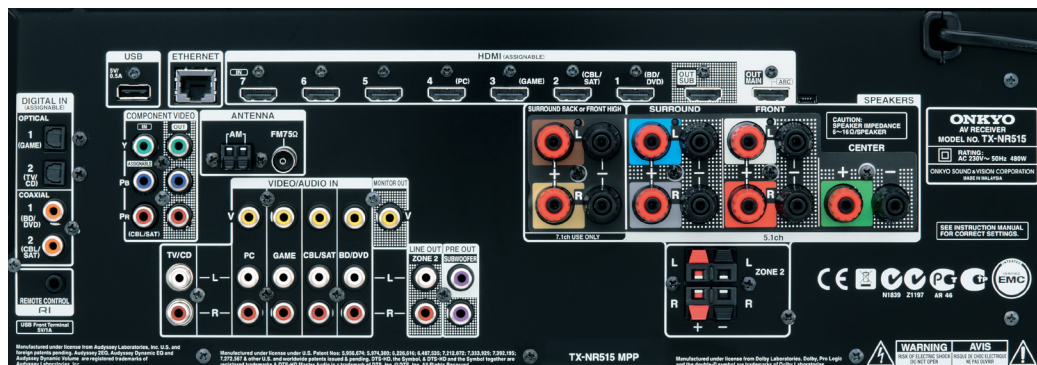
CARTON

Dimensions (W x H x D)	570 x 297 x 423 mm
Weight	11.5 kg (Asian Model: 12.0 kg)

Supplied Accessories

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

*Not included with Chinese model.



Text on receiver may vary with region.

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. Manufactured under license from Dolby Laboratories. DTS, DTS-HD, the Symbol, & DTS or DTS-HD and the Symbol together are registered trademarks of DTS, Inc. © DTS, Inc. All rights reserved. Manufactured under license from Audyssey Laboratories, Inc. U.S. and foreign patents pending. Audyssey 2EQ, Audyssey Dynamic EQ, and Audyssey Dynamic Volume are registered trademarks 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, 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. InstaPrevue and the InstaPrevue logo are trademarks or registered trademarks of Silicon Image, Inc. in the United States and other countries. MHL, the MHL Logo and Mobile High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries. 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. WRAT, Music Optimizer, CinemaFILTER, and Theater-Dimensional are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.



Onkyo Sound & Vision Corporation 2-1 Nishin-cho, Neyagawa-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/>
Onkyo China Limited Unit 1033, 10/F., Star House, No. 3, Salsbury Road, Tsing Sha Tsui, Kowloon, Hong Kong, CHINA Tel: 852-2429-3118 Fax: 852-2428-9039 <http://www.onkyochina.com/>