TX-NR818 7.2-Channel Network A/V Receiver

BLACK SILVER

Microphone for Audyssey

High-End Home Cinema Performance Starts Here

This Onkyo network receiver is a winner in three areas. Firstly, its video performance is unrivalled. A dual core video engine design utilizes an HQV® Vida™ VHD1900 processor to upscale analog content to 1080p, with Qdeo™ technology taking full HD out to an eye-popping 4K. An ISF system calibrates video from all inputs to industry standards, and the resulting picture is spectacular. Secondly, audio performance is unmatched, as proven by THX® Select2 Plus™ certification. The receiver delivers power effortlessly through three-stage inverted Darlington circuitry and 192 kHz/24-bit DACs. Finally, you get more setup flexibility. There are eight HDMI® inputs—including an MHL for smart phones—and two outputs. Two USB ports connect iPod/iPhone and LAN adaptor, enabling wireless PC and online audio. Three mind-blowing sound expansion systems are included—Audyssey DSX®, DTS Neo:X™, and Dolby® Pro Logic® IIz—assisted by Audyssey MultEQ XT32 room correction. Digital crossover processing, front channel bi-amping capability, and three-zone audio distribution grant the freedom to customize. With new InstaPrevue™ input selection technology and intuitive system control via iPhone and Android phone, now is the time to upgrade to an Onkyo.

ADVANCED FEATURES

- THX® Select2 Plus™ Certified
- High-Quality HQV® Vida™ VHD1900 Video Processor
- HDMI® Video Upscaling to 4K with Qdeo™ Technology by Marvell
- ISF (Imaging Science Foundation) Video Calibration for Optimal Video Performance
- DTS Neo:X™, Audyssey DSX®, and Dolby® Pro Logic® IIz for Expanded Surround Channels
- MHL™ (Mobile High-Definition Link) for Smart Phone Content on HDTV
- Input Source Preview with InstaPrevue™ Technology
- Audyssey MultEQ XT32 for Room Acoustic Correction
- Dolby® Volume for Reference-Quality Listening at Any Volume
- Internet Radio and Cloud Music Streaming Service Connectivity (Last.fm, MP3tunes, Spotify, AUPEO!, Simfy, vTuner)*1
- Supports Onkyo Remote Apps for iPod touch/iPhone*2 and Android Phone*3
- Powered Zone 2/3 and Zone 2/3 Line-Outs for Distributed Audio Playback in Multiple Rooms
- 9.2 Multichannel Pre-Outs
- Bi-Amping Capability
- Differential DAC Mode for Front Channels
- Digital Crossover Processing Network to Cancel Crossover Interference

**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

- 180 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC); 230 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- Isolated Power-Amp and Pre-Amp Block
- WRAT (Wide Range Amplifier Technology)
- Three-Stage Inverted Darlington Circuitry
- 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

PROCESSING 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
- 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
- Direct Mode and Pure Audio Mode

**Frontside HDMI does not support DeepColor.*

CONNECTION FEATURES

- 8 HDMI Inputs (1 Front/7 Rear) and 2 Outputs
- 2 USB Ports (1 Front/1 Rear)
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Compatible with Optional UWF-1 Wireless LAN Adapter via USB
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, Apple Lossless, LPCM)
- 2 Component Video Inputs and 1 Output
- 5 Composite Video Inputs and 1 Output
- 6 Digital Audio Inputs (3 Optical and 3 Coaxial)
- 7 Analog Audio Inputs and 1 Phono Input
- Analog RGB Video Input (D-sub, 15 pin) for PC
- RS-232 Port, IR Input/Output, and 12 V Trigger Outs (Zone 2/3)

OTHER FEATURES

- 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
- Hybrid Standby 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 and Zone 2 Channels
- Firmware Updates via Ethernet and USB
- RDS (PS/RT/PTY/TP) (European Model only)
- 40 FM/AM Random Presets
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control with Macro Presets for Four Activities

TX-NR818 7.2-Channel Network A/V Receiver

Wireless Cloud Streaming, Internet Radio, and PC-Based Music

Connecting to your home network using a standard LAN cable, the TX-NR818 makes streaming audio and internet radio easy. You can also play formats including MP3, AAC, Apple Lossless, FLAC, and WMA Lossless stored on your PC through your Onkyo home cinema system. The receiver offers easy access to internet radio channels from Last.fm and vTuner, plus cloud-based music streaming from AUPEO!, Simfy, and MP3tunes*. Wireless networking is enabled with an optional UWF-1 Wireless LAN Adapter.

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

Mobile High-Definition Link for Smart Phone Movies and Photos

The TX-NR818's front-panel HDMI port is designed for the connection of compatible smart 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-NR818 incorporates InstaPrevue visual port management technology, making input source selection 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-NR818 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.

World's Best Video Processing

Three of the best video processing and enhancement systems are included to guarantee smooth and accurate images on your HDTV.

HQV® Vida™ VHD1900

The Vida VHD1900 upscales analog content to 1080p, and enhances native high-definition sources. The chip employs multi-cadence tracking, expanded 12-bit color processing, and four-field motion-adaptive de-interlacing. Auto HQV™ enhances the incoming image, while HQV StreamClean™ cleans up video from lower-quality online sources by eliminating mosquito and block noise.

Marvell Qdeo™ Technology

Qdeo technology upscales 1080p sources to 4K (4096 x 2160)—even content already upscaled from lower resolutions by the HQV Vida processor. Played back on a compatible 4K display, your high-definition content will look more cinematic than ever.

ISF Video Calibration

ISF (Imaging Science Foundation) video calibration dramatically improves picture quality. Each video input source is independently calibrated to achieve the best possible performance from your connected HDTV.

Note: 4K video playback requires a 4K-compatible TV. HDMI pass-through of 4K content from source devices is not supported. 4K upscaling of analog video is only available at 480i.

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 smart phone 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.*

Three High Performance Sound Expansion Systems

A seven-channel system provides a more immersive entertainment experience, with additional High or Wide channels convincing you with realistic directional and ambient effects. Audyssey DSX®, Dolby® Pro Logic® IIz, and DTS Neo:X™ expansion systems offer you freedom to choose your preferred speaker setup. Audyssey DSX can expand 5.1 sources to incorporate Wide or Height channels. The Dolby system adds Height channels and stereo source expansion, while DTS Neo:X offers Wides or Heights with cinema, music, or game listening modes.

Audyssey MultEQ XT32

Audyssey's top-of-the-line room correction suite equalizes the sound to suit the unique acoustics of your listening space. High-resolution filters are applied to all channels—including subwoofers—based on information collected from more than 10,000 individual control points across eight measurement positions.

Innovative Design and Quality Construction

This receiver is built to deliver superb sound quality. Processing equipment and amplifier circuits are housed separately to limit electrical interference, while PLL (Phase Locked Loop) jitter cleaning preserves signal integrity by eliminating digital clock noise. The amplifier's three-stage inverted Darlington circuitry—an enhancement to the core WRAT (Wide Range Amplifier Technology) concept—ensures minimal distortion, and better manages impedance fluctuations. Quality circuitry dovetails with a heavy-duty power supply for instantaneous response to signal gains. The resulting sound is reliably pure, even under heavy loads.

SPECIFICATIONS

Amplifier Section

Power Output	
Front L/R	180 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 230 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Center	180 W (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 230 W (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Surround L/R	180 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 230 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Surround Back L/R, Front High L/R, or Zone 2 L/R	180 W/Ch (6 Ω, 1 kHz, 1% THD, 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+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, 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)
Rated RCA Output Level and Impedance	200 mV/470 Ω (Line Out)
Maximum RCA Output Level and Impedance	4.6 V/470 Ω (Line Out)
Phono Overload	70 mV (MM, 1 kHz, 0.5%)
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	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 Y) 0.7 Vp–p/75 Ω (Component PB/CB, PR/CR) 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 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	40 Stations

General

Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	720 W
Standby Power Consumption	0.1 W
Dimensions (W x H x D)	435 x 198.5 x 435.5 mm
Weight	18.3 kg

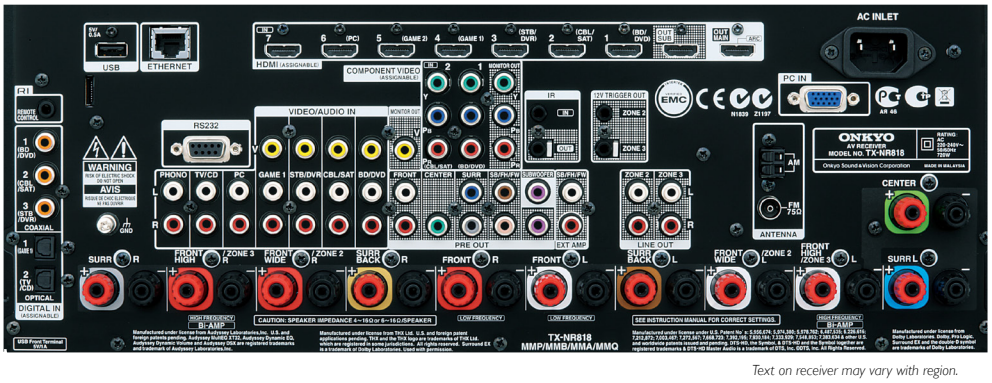
CARTON

Dimensions (W x H x D)	587 x 337 x 553 mm
Weight	22.0 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.

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