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. Front channel bi-amping, Digital Processing Crossover Network, 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.
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 TuneIn plus cloud-based music streaming from AUPEO! and Stingray®. Wireless networking is enabled with an optional UWV-1 Wireless LAN Adapter.

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’s 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. 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-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® YMD™ HD900

The HQV HD900 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™ enhancing the incoming image. While HQV StreamClean™ cleans up video from lower-quality online content, HQV Picture Improver™ cleans up video from lower-quality online sources. Each video input source is independently optimized to incorporate Wide or Height channels.

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®, Doby® Pro Logic IIz, and DTS Neo:X® expansion systems offer you freedom to choose your preferred setup. Audyssey DSX® 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 Wide or Heights with cinema, music, or game listening modes.

Audyssey MultiEQ 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.

MoveIt! Qdeo™ Technology

Qdeo technology upscales 1080p sources to 4K (4096 x 2160)—even content already upscaled from lower resolutions by the HQV YMD™ HD900 processors. Played back on a compatible 4K display, your high-definition content will look more cinematic than ever.

IFP Video Calibration

IFP (Image 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.

Onkyo Remote Apps for iPod touch/iPhone and Android Phone

The Onkyo Remote App 2 for iPod touch/iPhone® and Onkyo Remote for Android phones® 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 for iPod touch and iPhone (FREE), and for Android phones (FREE).

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

SPECIFICATIONS

Amplifier Section

Power Output

Front L/R                   180 W/Ch (6 Ω, 1 kHz, THD=1%, 1 Channel Driven, EC)
Center                     180 W/Ch (6 Ω, 1 kHz, THD=1%, 1 Channel Driven, EC)
Surround L/R               230 W/Ch (6 Ω, 1 kHz, THD=1%, 1 Channel Driven, EC)

Dynamic Power              300 W (3 Ω, 1 kHz, THD=1%, 1% THD, 1 Channel Driven, EC)

Clamping Factor            60 (Front, 1 kHz, EC)
Input Sensitivity and Impedance

Maximum RCA Output Level and Impedance

200 mV (6 Ω, Line Out)

Rated RCA Output Level and Impedance

200 mV (6 Ω, Line Out)

Maximum RCA Output and Impedance

6.6 W/6 Ω (Line Out)

Phono Overload             70 mV (MM, 1 kHz, 0.5%)
Frequency Response         ±10 dB, 20 kHz (Treble)
Tonal Control              ±10 dB, 60 Hz (Bass)
Signal-to-Noise Ratio      110 dB (Line, AFA)
Speaker Impedance          6 Ω (Front), 8 Ω (Surround)

Component Video Frequency Response

5 Hz–100 MHz (0 dB, ±3 dB)

Tuner Section

Tuning Frequency Range

FM 87.5 MHz–108 MHz
AM 530 kHz–1710 kHz

FM/AM Preset Memory

60 Stations

General

Power Supply               AC 220–240 V, 50/60 Hz
Power Consumption           300 W
Standby Power Consumption   0.1 W
Dimensions (W x H x D)      135 x 193 x 355.5 mm
Weight                      18.3 kg

CARTON

Dimensions (W x H x D)      307 x 277 x 533 mm
Weight                      29.1 kg

Supplied Accessories

* Editor’s Pick Awards • AMP LOOP Antenna • Speaker Cable Labels • Speaker Screw Plug Kit • Universal Remote Control• Quick Start Guide • Remote Controller • AAA (R6) Batteries x 2

*Not included with Chinese model.