FEATURES

A/V Receivers	TX-NR906	TX-SR876	TX-SR806	TX-SR706	TX-SR606	TX-SR576	TX-SR506
High-Definition Features							
Dolby® TrueHD, Dolby® Digital Plus	✓	✓	✓	✓	✓	Dolby Digital Plus Only	
DTS-HD™ Master Audio, DTS-HD™ High Resolution Audio	✓	✓	✓	✓	✓		
HDMI Inputs/Outputs	4/2	4/2	5/1	4/1	4/1	3/1	3/1
HDMI Video Processing	✓ (HQV Reon-VX)	✓ (HQV Reon-VX)	✓ (Faroudja DCDi Cinema)	✓ (Faroudja DCDi Cinema)	✓ (Faroudja DCDi Edge)		
1080p Video Resolution	✓	✓	✓	✓	✓	✓	✓
1080p Video Upscaling	✓	✓	✓	✓			
RIHD	✓	✓	✓	✓	✓	✓	
Amplifier Design							
Parallel Push-Pull Amplification	✓	✓					
High Current Low Impedance Drive	✓	✓	✓	✓	✓	✓	✓
H.C.P.S.	✓ (Toroidal)	✓	✓	✓	✓	✓	✓
WRAT (Wide Range Amplifier Technology)	✓	✓	✓	✓	✓	✓	✓
VLSC (Vector Linear Shaping Circuitry)	✓ (For all channels)	✓ (For all channels)					
192 kHz/24-Bit Audio DAC	Burr-Brown	Burr-Brown	Cirrus Logic	Cirrus Logic	Cirrus Logic	Cirrus Logic	Cirrus Logic
All Discrete Output Stage Circuitry	✓	✓	✓	✓	✓	✓	✓
Optimum Gain Volume Circuitry	✓	✓	✓	✓	✓	✓	✓
Bi-Amping	✓	✓	✓	✓	✓	✓	✓
BTL (Bridged Transless or "Bridging")	✓	✓					
Home Theatre/Network Features							
THX™ Certified	✓ (Ultra2 Plus)	✓ (Ultra2 Plus)	✓ (Ultra2 Plus)	✓ (Select2 Plus)			
Room Calibration	✓ (Audyssey MultEQ XT)	✓ (Audyssey MultEQ XT)	✓ (Audyssey MultEQ)	✓ (Audyssey MultEQ)	✓ (Audyssey 2EQ)	✓ (Audyssey 2EQ)	✓ (Audyssey 2EQ)
Network Connectivity	✓						
DTS®, DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24	✓	✓	✓	✓	✓	✓	✓
Dolby® Digital, Dolby® Pro Logic® IIx, Dolby® Digital EX™	✓	✓	✓	✓	✓	✓	✓
HDMI Upconversion	✓	✓	✓	✓	✓		
Component Video Upscaling	✓	✓	✓				
Component Video Inputs/Output	3/1	3/1	2/1	2/1	2/1	2/1	2/1
32-Bit DSP Chip	TI x 3	TI x 3	TI x 2	TI x 2	TI x 1	TI x 1	TI x 1
Zone 2	✓ (Audio/Video)	✓ (Audio/Video)	✓ (Audio)	✓ (Audio)	✓ (Audio)	✓ (Audio)	✓ (Audio)
Zone 3	✓ (Audio)	✓ (Audio)					
GUI for System Set-up	✓	✓	✓	✓	✓		
Crossover Adjustment	✓ (Independent)	✓ (Independent)	✓ (Independent)	✓ (Independent)	✓ (Independent)	✓	✓
A/V Sync	✓ (Up to 250 ms)	✓ (Up to 250 ms)	✓ (Up to 250 ms)	✓ (Up to 250 ms)	✓ (Up to 100 ms)	✓ (Up to 100 ms)	✓ (Up to 100 ms)
ISF Video Calibration	✓	✓					
Other Features							
Radio Tuning	Internet/FM/AM	FM/AM	FM/AM	FM/AM	FM/AM	FM/AM	FM/AM
Neural-THX® Surround Decoder	✓	✓					
Pure Audio Mode	✓	✓	✓	✓	✓	✓	✓
IntelliVolume	✓	✓	✓	✓	✓		
Tone Control	7.1 ch	7.1 ch	L/R	L/R	L/R	L/R	L/R
Banana Plug-Compatible Speaker Posts	✓ (Customized, gold-plated)	✓	✓	✓	✓	✓ (Except Zone 2)	✓ (Except Zone 2)
RS232, IR, & 12V Trigger Connectivity	✓	✓	✓	✓			
RI Dock for iPod Connectivity	✓	✓	✓	✓	✓	✓	✓

SPECIFICATIONS

A/V Receivers	TX-NR906	TX-SR876	TX-SR806	TX-SR706	TX-SR606	TX-SR576	TX-SR506
Amplifier Section							
Power Output Front L/R, Center, Surround L/R, Surround Back L/R	220 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)	200 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)	180 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)	160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)	140 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)	130 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)	130 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)
Dynamic Power	400 W (3 Ω, 1 ch) 300 W (4 Ω, 1 ch) 180 W (8 Ω, 1 ch)	320 W (3 Ω, 1 ch) 270 W (4 Ω, 1 ch) 160 W (8 Ω, 1 ch)	300 W (3 Ω, 1 ch) 250 W (4 Ω, 1 ch) 150 W (8 Ω, 1 ch)	240 W (3 Ω, 1 ch) 210 W (4 Ω, 1 ch) 120 W (8 Ω, 1 ch)	210 W (3 Ω, 1 ch) 180 W (4 Ω, 1 ch) 110 W (8 Ω, 1 ch)	180 W (3 Ω, 1 ch) 160 W (4 Ω, 1 ch) 100 W (6 Ω, 1 ch)	180 W (3 Ω, 1 ch) 160 W (4 Ω, 1 ch) 100 W (8 Ω, 1 ch)
THD (Total Harmonic Distortion)	0.05% (Rated power)	0.05% (Rated power)	0.08% (Rated power)	0.08% (Rated power)	0.08% (Rated power)	0.08% (Rated power)	0.08% (Rated power)
Damping Factor	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 6 Ω)	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)
Output Level and Impedance	200 mV/470 Ω (Rec out)	200 mV/470 Ω (Rec out)	200 mV/470 Ω (Rec out)	200 mV/470 Ω (Rec out)	200 mV/2.2 kΩ (Rec out)	200 mV/2.2 kΩ (Rec out)	200 mV/2.2 kΩ (Rec out)
Frequency Response	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)
Tone Control	±10 dB, 20 Hz (Bass) ±10 dB, 20 kHz (Treble)	±10 dB, 20 Hz (Bass) ±10 dB, 20 kHz (Treble)	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	110 dB (Line, IHF-A)	110 dB (Line, IHF-A)	110 dB (Line, IHF-A)	106 dB (Line, IHF-A)	106 dB (Line, IHF-A)	100 dB (Line, IHF-A)	100 dB (Line, IHF-A)
Speaker Impedance	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω
Video Section							
Input Sensitivity/Output Level and Impedance Video	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)
Component Video Frequency Response	5 Hz–100 MHz (-3 dB)	5 Hz–100 MHz (-3 dB)	5 Hz–50 MHz (-3 dB)	5 Hz–50 MHz (-3 dB)	5 Hz–50 MHz (-3 dB)	5 Hz–50 MHz (-3 dB)	5 Hz–50 MHz (-3 dB)
Tuner Section							
Tuning Frequency Range FM AM	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz
Preset Memory	40 stations	40 stations	40 stations	40 stations	40 stations	40 stations	40 stations
General							
Power Supply	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 220–240 V, 50/60 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
Power Consumption	1,000 W	870 W	740 W	550 W	550 W	480 W	480 W
Dimensions (W x H x D)	435 x 194 x 458.5 mm	435 x 194 x 458.5 mm	435 x 194 x 431 mm	435 x 174 x 377 mm	435 x 174.5 x 375 mm	435 x 150 x 379.5 mm	435 x 150 x 379.5 mm
Weight	24.3 kg	23.3 kg	17.8 kg	12.3 kg	11.4 kg	10.6 kg	10.6 kg

ONKYO®
IMAGINATIVE SIGHT & SOUND

Onkyo Corporation
2-1 Nisshin-cho, Neyagawa-shi, Osaka 572-8540, JAPAN
Tel: 81-72-831-8136 Fax: 81-72-833-5222 http://www.onkyo.com/

Onkyo Europe Electronics GmbH
Liegnitzerstrasse 6, 82194 Grobenzell, GERMANY
Tel: 49-8142-4401-0 Fax: 49-8142-4401-555 http://www.eu.onkyo.com/

Onkyo Europe UK Office
Suite 1, Gregories Court, Gregories Road, Beaconsfield, Buckinghamshire HP9 1HQ,
UNITED KINGDOM Tel: 44-1494-681515 Fax: 44-1494-680452 http://www.onkyo.co.uk/

Europe GB
Catalog No. 08C12
Printed in Japan
01-0806-5.1K-DT

ONKYO®
IMAGINATIVE SIGHT & SOUND

Home Theatre Receivers

New Line-up 2008

TX-NR906 | TX-SR876 | TX-SR806 | TX-SR706 | TX-SR606 | TX-SR576 | TX-SR506

High Def with Pure Emotion —An Evolving Onkyo Legacy

Blending high-def media with the latest A/V technologies to create cutting-edge home entertainment—it's no easy feat. It requires an "x factor" that goes beyond recognized expertise, technical innovation, and an unsurpassed track record. At Onkyo, our commitment is to sound and to extracting more emotion from movies and music. Making the most of the best technologies available—from HQV, Faroudja, Dolby® TrueHD, DTS-HD™ Master Audio, Audyssey, HDMI™, and THX®—this second generation of A/V receivers brings further refinement and functionality to the Onkyo high-definition legacy.

The Leading Edge in Power and High-Def A/V Processing

Expanding what's possible with high-definition media, Onkyo brings you scintillating home entertainment like you've never experienced before. Our range of second-generation high-definition A/V receivers takes the experience even further with some of the most acclaimed home theatre features out there. Whatever the source—including Blu-ray Disc and DVD video, HD broadcasting, gaming, and studio master-quality surround-sound movie soundtracks and music—this line-up has it covered. For high-definition 1080p video and studio master-quality surround-sound formats—such as Dolby TrueHD and DTS-HD Master Audio—these A/V receivers provide the right mix of amplification power, precision processing, and smart technological application.

dts-HD™ Master Audio | dts-HD™ High Res Audio | DOLBY TRUEHD | DOLBY DIGITAL PLUS

Pure Digital Delivery with High-Definition Multimedia Interface (HDMI)

HDMI is the conduit through which the receivers in Onkyo's 2008 range receive and distribute high-definition video and audio. Every A/V receiver in the line-up handles a pure, all-digital 1080p video signal through one HDMI connection. Also, all of our receivers equipped with the latest version of HDMI can process studio master-quality multichannel audio from Dolby TrueHD or DTS-HD Master Audio. This version of HDMI also enables CEC (Consumer Electronics Control), greater bandwidth, Deep Color™, lip-sync correction, and high frame rates. Within the 2008 range, you can find receivers with up to five HDMI inputs, and even dual output for connection to a flat-panel display and a 1080p video projector.

HDMI

Meeting THX Benchmarks for Superior Performance and Reliability

To ensure that all mid-range and high-end A/V receivers in the 2008 line-up meet THX's comprehensive performance standards, THX engineers spend countless hours testing and analyzing sound quality, usability, and interoperability for each model. This enduring relationship between Onkyo and THX guarantees even greater reliability and quality from certified A/V receivers. The 2008 range features two new THX standards: THX® Ultra2 Plus™ and THX® Select2 Plus™. These standards include THX® Loudness Plus™, which enables home theatre audiences to experience rich detail and ambient sound in a surround mix at any volume level.

THX ULTRA 2 PLUS | THX SELECT 2 PLUS

HQV Reon-VX Chip for 1080p Video Upscaling and Processing

Renowned for enabling the most sophisticated video processing in home theatre, the HQV Reon-VX chip can be found onboard the TX-NR906 and TX-SR876. It provides the ultimate support for standard-definition and high-definition deinterlacing; 1080p video scaling; filtering of jaggies and artifacts; and 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.

HQV

Standard chips process pixels in blocks, creating unwanted artifacts.

HQV chips process pixels individually, for enhanced pixel accuracy.

Images scaled by Reon-VX contain 80% new pixels to augment the original video data.

Advanced Faroudja Video Processing with 1080p/1080i Upscaling

The Faroudja name is synonymous with high-quality video processing. The Faroudja technologies incorporated into our 2008 A/V receiver range give you the power to bring out the best from both high-definition and standard-definition video content. The Faroudja DCDi Edge™ video processor converts interlaced video signals to progressive scan signals and effectively eliminates video artifacts from HDTV images. The Faroudja DCDi Cinema™ video processor is a more sophisticated version that drastically reduces video noise without sacrificing image quality and sharpness. Both processors can scale standard-definition sources up to 1080i—and DCDi Cinema can additionally upscale to 1080p—for output to HDTVs.

FAROUDJA DCDi CINEMA | FAROUDJA DCDi EDGE

Jaggies visible on diagonals.

DCDi eliminates jaggies.

Audyssey Technologies for the Ideal Listening Environment

Onkyo A/V receivers use Audyssey's MultEQ™ XT, MultEQ™, or 2EQ™ to counter distortion in dedicated home theatres. All of these solutions focus on the frequency response and time domain (where most of the problems lie) across the entire listening area. The results are immediately obvious—a clear, well-balanced and natural sound. The 2008 A/V receiver range features two new Audyssey technologies: (1) Dynamic EQ™, which selects the best frequency response and surround levels moment-by-moment, for the best listening experience at any volume; and (2) Dynamic Volume™, which maintains the desired listening level for all content while optimizing the dynamic range.

AUDYSSEY MULTEQ XT DYNAMIC EQ DYNAMIC VOLUME

AUDYSSEY MULTEQ DYNAMIC EQ

AUDYSSEY 2EQ DYNAMIC EQ

Sound stage is diffuse without Audyssey technologies.

Audyssey technologies create a clearer sound stage.

ISF Video Calibration for Accurate Video Reproduction

The TX-NR906 and the TX-SR876 are the first A/V receivers equipped with industry-leading ISF (Imaging Science Foundation) video calibration to dramatically improve your home theatre by enabling sharper-focused, fuller-resolution images and a more accurate color balance. Turning your A/V receiver into a true video hub, this function ensures that every video source is independently calibrated for your connected high-definition display. Also, ISF video calibration has been shown to improve energy savings in displays and projectors by up to 50%.

Network Capability for Integrating Controllers

With the TX-NR906, it's possible to make a network connection with Crestron and AMX controllers, enabling control of integrated home theatre applications such as lighting and volume. Integrating the TX-NR906 into a sophisticated home theatre system becomes a precise, yet simple, process.

Network for Streaming Audio Files and Internet Radio

The TX-NR906's network capability gives you control over digital music files (AAC, WMA, MP3, WAV, OGG, FLAC) and internet radio, via an Ethernet network between the TX-NR906 and your computer. It also enables you to access music files from a USB mass storage device a portable audio player, through a USB port. You can use a portal site—vTuner—to access internet radio, podcasts, and media content. At the heart of the network is Windows Media Connect or Windows Media Player (the TX-NR906 is Certified for Windows Vista).

vTuner

CERTIFIED FOR Windows Vista®

A Fresh Approach to the Internal Construction of A/V Receivers

Our design philosophy for the TX-NR906 and TX-SR876 is based on a consideration of how each individual part interacts with the others and affects audio and video performance. The end result is a receiver where the power amplifier block and the pre-amplifier coexist, but are perfectly isolated. Taking it even further, the circuit boards have been affixed to the chassis so that vibrations from the base are suppressed. As Onkyo's flagship model for the high-definition era, the TX-NR906 forges further ahead with gold-plated audio inputs, a brass bus plate for perfect grounding, and customized, gold-plated speaker posts.

Parallel Push-Pull Amplification with Three-Stage Inverted Darlington Circuitry

Parallel push-pull amplification uses different transistors to separately amplify the positive and negative halves of the waveform, bringing greater efficiency to the TX-NR906 and TX-SR876. These select Onkyo A/V receivers use three-stage inverted Darlington circuitry to remove any instance of distortion.

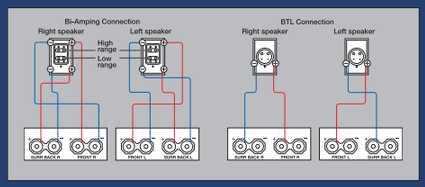
Harnessing Power for Audio Performance

Onkyo's H.C.P.S. (High Current Power Supply) concept is based around power transformers with the capability to respond to the wide dynamics of home theatre. In the case of the TX-NR906, a massive toroidal transformer improves power efficiency and radiates very little noise into the surrounding circuitry, while two separate transformers cater specifically to audio and video processing. You'll also find capacitors (operating at up to 18,000 microfarads) that store the charge necessary to support an effective power supply.

H.C.P.S. HIGH CURRENT POWER SUPPLY ONKYO

Bi-Amping and BTL (Bridged Transless or "Bridging") Capability

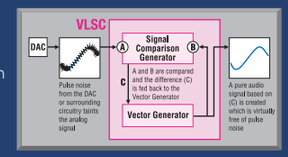
Taking a cue from the world of high-end audio, you'll find bi-amping and bridging capabilities in Onkyo's 2008 line-up. This allows for a number of different home theatre set-ups beyond the standard surround-sound configurations. Compatible front speakers can be bi-amped for separate tweeter and woofer inputs. Also, bridging enables you to double the power output to compatible front speakers.



VLSC™ (Vector Linear Shaping Circuitry)

VECTOR LINEAR SHAPING CIRCUITRY

In conventional digital-to-analog methods, it is impossible to completely remove noise, which taints the analog signal and ultimately degrades the sound emitted from your speakers. With Onkyo's VLSC, data is continuously sampled between two discrete points (via a signal comparison generator), and the difference is joined with analog vectors in real-time to produce a smooth output wave form. The VLSC digital-to-analog conversion method results in a smooth, virtually pulse noise-free audio signal that faithfully reproduces the acoustic detail and subtle nuances of all your audio sources, and breathes life into digital media.

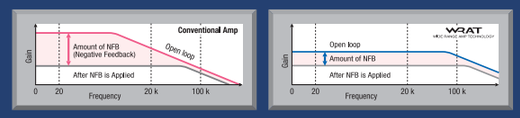


WRAT (Wide Range Amplifier Technology)—A Total Design for Amplification Power

WRAT
WIDE RANGE AMP TECHNOLOGY

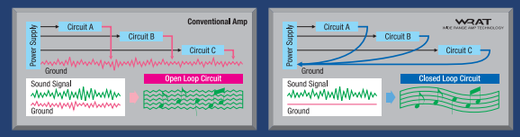
Uncommonly Low Negative-Feedback Design—Get cleaner sounds on program peaks

Negative feedback (NFB) is the most cost-effective way to reduce noise at lower frequencies, but it will severely inhibit an amplifier's ability to respond to musical crescendos and to produce sound at high frequencies. We use a low negative-feedback design with audiophile-grade, close-tolerance components at critical points in the signal path. This design achieves a frequency response out to 100 kHz for high-definition and regular DVD formats, high-resolution DVD-Audio and Super Audio CD, regular CDs, digital music files, and the latest gaming software.



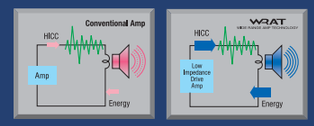
Closed Ground-Loop Circuits—Enjoy distortion-free audio at any volume

If an amplifier's ground potential (voltage) fluctuates during playback, you can expect noise. In an open-loop circuit design, where all circuits are connected to the power supply via one loop (like on many amplifiers), the noise multiplies exponentially. Onkyo's sophisticated closed-circuit design enables each circuit to go and return directly to the power supply, which cancels any individual circuit noise and keeps the ground potential free of distortion.



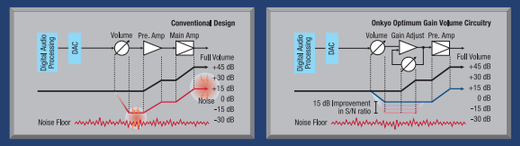
High Instantaneous-Current Capability—Experience home entertainment with greater impact

After an amplifier outputs an audio signal, the speakers accumulate energy, reflex, and send energy back to the amplifier. The amplifier must immediately cancel the speakers' reflex energy and instantaneously send out the next signal. A high current is necessary to handle speaker impedance fluctuations, which can force an amplifier to provide four to six times its usual current load. The instantaneous current capability of even Onkyo's least expensive WRAT receivers exceeds that of most conventional units, which commonly have less than half the current capability. An Onkyo receiver will deliver movie soundtracks with cinema-standard dynamics and clarity.



Optimum Gain Volume Circuitry

In conventional volume-attenuation methods, the signal comes close to the noise floor at low volumes and is therefore susceptible to interference. Even if the amount of noise is minimal, it taints the signal as it is amplified. Onkyo's Optimum Gain Volume Circuitry adjusts the gain so that less than half the typical amount of attenuation is necessary. The signal never comes close to the noise floor, thereby eliminating the possibility of the noise contamination that plagues conventional volume-attenuation designs.



Burr-Brown 192 kHz/ 24-Bit DACs for All Channels

Selected Onkyo A/V receivers—namely the TX-NR906 and TX-SR876—use a Burr-Brown 192 kHz/24-bit DAC with an advanced Texas Instruments DAC architecture (PCM1796) to achieve excellent dynamic performance and improved tolerance to clock jitter.

Texas Instruments Digital Signal Processing (DSP) Chips

Onkyo A/V receivers incorporate up to three Aureus™ DSP chips in the audio processing chain. They support the latest and most innovative audio signal processing features and help create a richer listening experience.

Neural-THX® Surround Decoding Technology

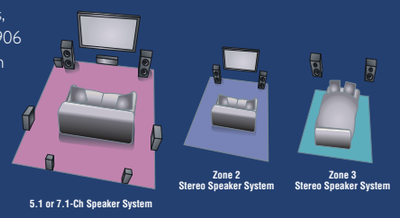
Neural-THX Surround enables content to be encoded into 5.1 or 7.1 channels and transmitted to an Onkyo A/V receiver, where it is decoded onboard. This technology reduces the bandwidth needed by broadcasters to deliver sound content and enables 7.1-channel support for gaming and movies.

neural SURROUND THX TECHNOLOGIES

Playback of Different A/V Sources Throughout the Home

Powered Zone 2 and Zone 3 bring multi-zone audio entertainment to your home through dedicated line outs, pre outs, and speaker connections. And with the TX-NR906 and TX-SR876, you have the added advantage of video in a second room. Independent control of volume levels, speaker balance, and bass/treble levels for the separate zones is available on selected models.

POWERED ZONE2 ZONE3

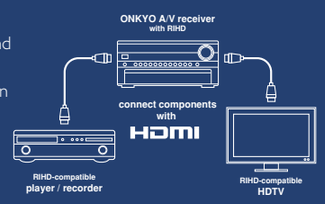


RIHD (Remote Interactive over HDMI) for System Control*

Select Onkyo A/V receivers offer integrated system control with certain HDMI-compatible high-definition displays, DVD and hard-disk recorders, and Blu-ray Disc players. With one remote control, you can control certain functions, including Standby, Volume, and Direct Change. These receivers can seamlessly integrate with other leading brand-name devices, including those with Panasonic VIERA Link™ and Toshiba REGZA LINK™ capability, as well as selected Sharp displays.

*Compatibility depends on model.

RIHD



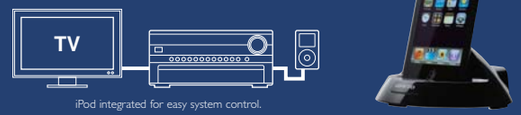
RI (Remote Interactive) System Capability and the iPod

With Onkyo's RI system, you can integrate and operate all components through a single remote control. RI also enables you to integrate virtually any iPod model via one of Onkyo's RI Docks for the iPod.

Made for iPod

AUDIO/VIDEO CONTROL CHARGE ON-SCREEN DISPLAY

RI



iPod integrated for easy system control.

TX-NR906

THX® Ultra2 Plus™ Certified 7.1-Channel A/V Home Network Receiver

Microphone for Audyssey

- 220 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- THX Ultra2 Plus Certified
- Network Capability for Streaming Audio Files and Internet Radio (with vTuner Portal)
- Dolby® TrueHD, Dolby® Digital Plus, DTS-HD™ Master Audio, DTS-HD™ High-Resolution Audio Decoding
- HDMI Audio and Video Processing (1080p; 4 Inputs and 2 Outputs)
- HQV Reon-VX Video Processing with 1080p Upscaling of All Video Sources via HDMI
- Massive Toroidal Transformer and Two Separate Transformers for Audio and Video Processing
- Parallel Push-Pull Amplifier Design with Three-Stage Inverted Darlington Circuitry
- VLSC (Vector Linear Shaping Circuitry) for All Channels
- Burr-Brown 192 kHz/24-Bit Audio DACs (PCM1796) for All Channels
- Audyssey MultEQ™ XT to Correct Room Acoustic Problems and to Calibrate Speakers
- Bi-Amping and BTL (Bridged Transless or Bridging) Capability
- Powered Zone 2 (Audio and Video); Zone 2 and Zone 3 Pre-Outs; Independent Control for Volume, Balance (Zone 2 and Zone 3) and Bass/Treble (Zone 2 Only)
- ISF (Imaging Science Foundation) Video Calibration Function

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

• HDMI™ to support Deep Color, x.v. Color, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD • RIHD (Remote Interactive over HDMI) for system control • Component video upscaling (up to 1080i) • Component video switching (3 inputs and 1 output) • WRAT (Wide Range Amplifier Technology) • Certified for Windows Vista® • USB port for a mass USB storage device (audio only) • Three TI (Aureus™) 32-bit DSP chips for advanced processing • Neural-THX Surround decoding technology • Audyssey Dynamic EQ™ for loudness correction • Audyssey Dynamic Volume™ to maintain optimal listening level and dynamic range • RS232, IR, and 12V trigger connectivity • Music Optimizer for compressed music files • Color-coded 7.1-multichannel inputs and pre outs • Gold-plated A/V inputs and outputs • Customized gold-plated transparent speaker posts • Independent crossover adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz) • Newly designed GUI for system set-up • Compatible with RI (Remote Interactive) Dock for the iPod • Preprogrammed RI (Remote Interactive) remote control with macros and mode-key LEDs

TX-SR876

THX® Ultra2 Plus™ Certified 7.1-Channel A/V Surround Home Theatre Receiver

Microphone for Audyssey

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

- 200 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- THX Ultra2 Plus Certified
- Dolby® TrueHD, Dolby® Digital Plus, DTS-HD™ Master Audio, DTS-HD™ High-Resolution Audio Decoding
- HDMI Audio and Video Processing (1080p; 4 Inputs and 2 Outputs)
- HQV Reon-VX Video Processing with 1080p Upscaling of All Video Sources via HDMI
- Parallel Push-Pull Amplifier Design with Three-Stage Inverted Darlington Circuitry
- VLSC (Vector Linear Shaping Circuitry) for All Channels
- Burr-Brown 192 kHz/24-Bit Audio DACs (PCM1796) for All Channels
- Audyssey MultEQ™ XT to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic EQ™ for Loudness Correction
- Bi-Amping and BTL (Bridged Transless or Bridging) Capability
- Powered Zone 2 (Audio and Video); Zone 2 and Zone 3 Pre-Outs; Independent Control for Volume, Balance (Zone 2 and Zone 3) and Bass/Treble (Zone 2 Only)
- ISF (Imaging Science Foundation) Video Calibration Function
- Newly Designed GUI for System Set-up

• HDMI™ to support Deep Color, x.v. Color, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD • H.C.P.S. (High Current Power Supply) massive high power transformer • RIHD (Remote Interactive over HDMI) for system control • Component video upscaling (up to 1080i) • Component video switching (3 inputs and 1 output) • WRAT (Wide Range Amplifier Technology) • Three TI (Aureus™) 32-bit DSP chips for advanced processing • Neural-THX Surround decoding technology • Audyssey Dynamic Volume™ to maintain optimal listening level and dynamic range • RS232, IR, and 12V trigger connectivity • IntelliVolume • Pure Audio mode • Optimum Gain Volume™ Circuitry • Music Optimizer for compressed music files • Color-coded 7.1-multichannel inputs and pre outs • Independent crossover adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz) • Compatible with RI (Remote Interactive) Dock for the iPod • Preprogrammed RI (Remote Interactive) remote control with macros and mode-key LEDs

TX-SR806

THX® Ultra2 Plus™ Certified 7.1-Channel A/V Surround Home Theatre Receiver

Microphone for Audyssey

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

- 180 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- THX Ultra2 Plus Certified
- Dolby® TrueHD, Dolby® Digital Plus, DTS-HD™ Master Audio, DTS-HD™ High-Resolution Audio Decoding
- HDMI Audio and Video Processing (1080p; 5 Inputs and 1 Output)
- HDMI Video Upscaling (Up to 1080p) with Faroudja DCDi Cinema™
- Component Video Upscaling (Up to 1080i)
- Push-Pull Amplifier Design with Three-Stage Inverted Darlington Circuitry
- Audyssey MultEQ™ to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic EQ™ for Loudness Correction
- Bi-Amping Capability for Music and Movie Sound Effects
- Powered Zone 2 and Zone 2 Pre-Out; Independent Control for Volume, Balance, and Bass/Treble
- Newly Designed GUI for System Set-up

• HDMI™ to support Deep Color, x.v. Color, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD • H.C.P.S. (High Current Power Supply) massive high power transformer • Cirrus Logic 192 kHz/24-bit audio DACs for all channels • RIHD (Remote Interactive over HDMI) for system control • Component video switching (2 inputs and 1 output) • WRAT (Wide Range Amplifier Technology) • Two TI (Aureus™) 32-bit DSP chips for advanced processing • RS232, IR, and 12V trigger connectivity • IntelliVolume • Pure Audio mode • Optimum Gain Volume Circuitry • Music Optimizer for compressed music files • Color-coded 7.1-multichannel inputs and pre outs • Independent crossover adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz) • Compatible with RI (Remote Interactive) Dock for the iPod • Newly designed preprogrammed RI (Remote Interactive) remote control with macros and mode-key LEDs

TX-SR706 THX® Select2 Plus™ Certified 7.1-Channel A/V Surround Home Theatre Receiver

Microphone for Audyssey

- 160 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- THX Select2 Plus Certified
- Dolby® TrueHD, Dolby® Digital Plus, DTS-HD™ Master Audio, DTS-HD™ High-Resolution Audio Decoding
- HDMI Audio and Video Processing (1080p; 4 Inputs and 1 Output)
- HDMI Video Upscaling (Up to 1080p) with Faroudja DCDi Cinema™
- Push-Pull Amplifier Design with Three-Stage Inverted Darlington Circuitry
- Cirrus Logic 192 kHz/24-Bit Audio DACs for All Channels
- Audyssey MultEQ™ to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic EQ™ for Loudness Correction
- Bi-Amping Capability for Music and Movie Sound Effects
- Powered Zone 2 and Zone 2 Line-Out for Playback in Another Room
- Newly Designed GUI for System Set-up

• HDMI™ to support Deep Color, x.v. Color, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD • H.C.P.S. (High Current Power Supply) massive high power transformer • RIHD (Remote Interactive over HDMI) for system control • WRAT (Wide Range Amplifier Technology) • Advanced TI (Aureus™) 32-bit processing DSP chip • WRAT (Wide Range Amplifier Technology) • Two TI (Aureus™) 32-bit DSP chips for advanced processing • 6 digital inputs (3 optical and 3 coaxial) • RS232, IR, and 12V trigger connectivity • IntelliVolume • Pure Audio mode • Music Optimizer for compressed music files • Color-coded 7.1-multichannel inputs and pre outs • Independent crossover adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz) • Compatible with RI (Remote Interactive) Dock for the iPod • Newly designed preprogrammed RI (Remote Interactive) remote control with macros and mode-key LEDs

TX-SR606 7.1-Channel A/V Surround Home Theatre Receiver

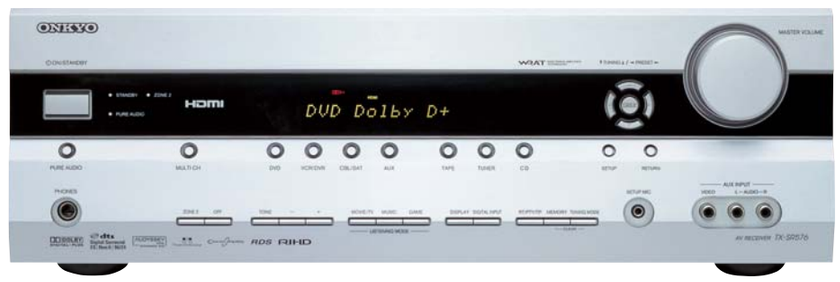
Microphone for Audyssey

- 140 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- Dolby® TrueHD, Dolby® Digital Plus, DTS-HD™ Master Audio, DTS-HD™ High-Resolution Audio Decoding
- HDMI Audio and Video Processing (1080p; 4 Inputs and 1 Output)
- HDMI Video Upscaling (Up to 1080i) with Faroudja DCDi Edge™*
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Audyssey 2EQ™ to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic EQ™ for Loudness Correction
- 192 kHz/24-Bit Audio DACs for All Channels
- Bi-Amping Capability for Music and Movie Sound Effects

**From component video, S-Video, and composite video inputs via HDMI output*

• HDMI™ to support Deep Color, x.v. Color, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD • H.C.P.S. (High Current Power Supply) massive high power transformer • RIHD (Remote Interactive over HDMI) for system control • WRAT (Wide Range Amplifier Technology) • Advanced TI (Aureus™) 32-bit processing DSP chip • 4 digital inputs (2 optical and 2 coaxial) • 4 S-Video inputs and 2 outputs • CinemaFILTER™ • Pure Audio mode • Powered Zone 2 and Zone 2 line-out for playback in another room • IntelliVolume • Subwoofer pre out • A-Form listening mode memory • Optimum Gain Volume Circuitry • Non-scaling configuration • Music Optimizer for compressed music files • Theater Dimensional virtual surround function • Tone control (bass/treble) for front L/R channels • Color-coded 7.1-multichannel inputs • Independent crossover adjustment for F/C/S/SB (40/50/60/80/100/120/150/200 Hz) • Newly designed GUI for system set-up • Compatible with RI (Remote Interactive) Dock for the iPod • Newly designed preprogrammed RI (Remote Interactive) remote control with mode-key LEDs

TX-SR576 7.1-Channel A/V Surround Home Theatre Receiver



Microphone for Audyssey

- 130 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- Dolby® Digital Plus Decoding (including Dolby® Digital EX™ and Dolby® Pro Logic® IIx)
- HDMI Video Switching (1080p) and Audio Processing (3 Inputs and 1 Output)
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Audyssey 2EQ™ to Correct Room Acoustic Problems and to Calibrate Speakers
- Bi-Amping Capability for Music and Movie Surround Effects
- Powered Zone 2 and Zone 2 Line-Out for Playback in Another Room
- RIHD (Remote Interactive over HDMI) for System Control

• DTS®-ES Discrete/Matrix, DTS® Neo:6, DTS® 96/24 decoding • H.C.P.S. (High Current Power Supply) massive high power transformer • 192 kHz/24-bit audio DACs for all channels • WRAT (Wide Range Amplifier Technology) • Advanced TI (Aureus™) 32-bit processing DSP chip • 4 digital inputs (2 optical and 2 coaxial) • 3 S-Video inputs and 2 outputs • Subwoofer pre out • CinemaFILTER™ • Pure Audio mode • A-Form listening mode memory • Optimum Gain Volume Circuitry • Music Optimizer for compressed music files • Theater Dimensional virtual surround function • Audyssey Dynamic EQ™ for loudness correction • Tone control (bass/treble) for front L/R channels • Double bass function • Color-coded 7.1-multichannel inputs • Color-coded banana plug-compatible speaker posts (except Zone 2) • Crossover adjustment at 40/50/60/80/100/120/150/200 Hz for bass management • A/V synchronization function (up to 100 ms in 20 ms steps) • 40 FM/AM radio presets with RDS (PS/RT/PTY/TP) • Compatible with RI (Remote Interactive) Dock for the iPod • Newly designed preprogrammed RI (Remote Interactive) remote control with mode-key LEDs

TX-SR506 7.1-Channel A/V Surround Home Theatre Receiver

Microphone for Audyssey

- 130 W/Ch, 6 Ω, 1 kHz, 1 Channel Driven, IEC
- DTS®-ES Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx Decoding
- HDMI Pass-Thru (1080p Compatible; 3 Inputs and 1 Output)*
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Audyssey 2EQ™ to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic EQ™ for Loudness Correction
- Bi-Amping Capability for Music and Movie Surround Effects
- Powered Zone 2 and Zone 2 Line-Out for Playback in Another Room

**A separate audio connection is necessary to process multichannel audio.*

• H.C.P.S. (High Current Power Supply) massive high power transformer • 192 kHz/24-bit audio DACs for all channels • WRAT (Wide Range Amplifier Technology) • Advanced TI (Aureus™) 32-bit processing DSP chip • 4 digital inputs (2 optical and 2 coaxial) • 3 S-Video inputs and 2 outputs • Subwoofer pre out • CinemaFILTER™ • Pure Audio mode • A-Form listening mode memory • Optimum Gain Volume Circuitry • Music Optimizer for compressed music files • Theater Dimensional virtual surround function • Tone control (bass/treble) for front L/R channels • Double bass function • Color-coded 7.1-multichannel inputs (receive 7.1 surround sound from compatible Blu-ray Disc players) • Color-coded banana plug-compatible speaker posts (except Zone 2) • Crossover adjustment at 40/50/60/80/100/120/150/200 Hz for bass management • A/V synchronization function (up to 100 ms in 20 ms steps) • 40 FM/AM radio presets with RDS (PS/RT/PTY/TP) • Compatible with RI (Remote Interactive) Dock for the iPod • Newly designed preprogrammed RI (Remote Interactive) remote control with mode-key LEDs