

TX-8522

STEREO RECEIVER

ONKYO
IMAGINATIVE SIGHT & SOUND

WRAT
WIDE RANGE AMP TECHNOLOGY

RI



Available in Black

Focusing on a Superior Audio Amplification Approach for Quality Stereo Sound

In the fast-paced world of home entertainment technology, change has become an understated word. Technologies now change so quickly that the new becomes yesterday's product before you barely become accustomed to it. Perhaps it's time to refocus on what's really important for quality audio: first-rate sound with high power output. Forget about over-hyped processing technologies. If your receiver lacks the fundamental amplifier design from the power supply through to the output stage, everything else is superfluous. The TX-8522 is built with this in mind. Incorporating Onkyo's proprietary Wide Range Amplifier Technology (WRAT) with an isolated power transformer and discrete output stage, the TX-8522 is focused on maintaining the purity of music, radio and video sources while bringing meaningful features to your system.

Wide Range Amplifier Technology (WRAT)

Onkyo's collection of proprietary technologies ensures you can get the best audio performance possible from the TX-8522.

Benefit 1: Uncommonly Low Negative-Feedback Design—Get cleaner sounds on program peaks

NFB (negative feedback) is the most cost-effective way to reduce noise at lower frequencies, but it will severely inhibit an amplifier's ability to respond to large signal gains (e.g. musical finales) and to produce sound at high frequencies. The TX-8522 has a low negative-feedback design with audiophile-grade, close-tolerance components at critical points in the signal path to achieve a frequency response out to 100 kHz for high-resolution formats such as DVD-Audio and Super Audio CD, as well as for regular CDs, DVDs and other music sources.

Benefit 2: Closed Ground-Loop Circuits—Enjoy greater maximum volume without distortion

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. The TX-8522'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.

Benefit 3: High Instantaneous-Current Capability—Experience audio with greater dynamics

After an amplifier outputs audio signals, 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. The same high current is also necessary to handle speaker impedance fluctuations, which can force an amplifier to provide four to six times its usual current load. The TX-8522 has an instantaneous current capability that ensures audio output is not affected by limited power.

High-Current, Low Impedance Drive

To get noticeable performance, a receiver's ability to increase output power into low impedances is essential. Without a consistent current flow through to your loudspeakers, audio output is restricted. Without the appropriate parts and design to support your amplifier, you will discover distortion on musical peaks, weak bass, loss of dynamics, hardening of timbre and a collapsing soundstage. The TX-8522's discrete output stage and capable power transformer will drive speakers with an impedance of up to 4 ohms—a demanding task. This power will give you access to a wider range of speakers with which to build your audio system.

Speaker Playback and Remote Control for Another Room

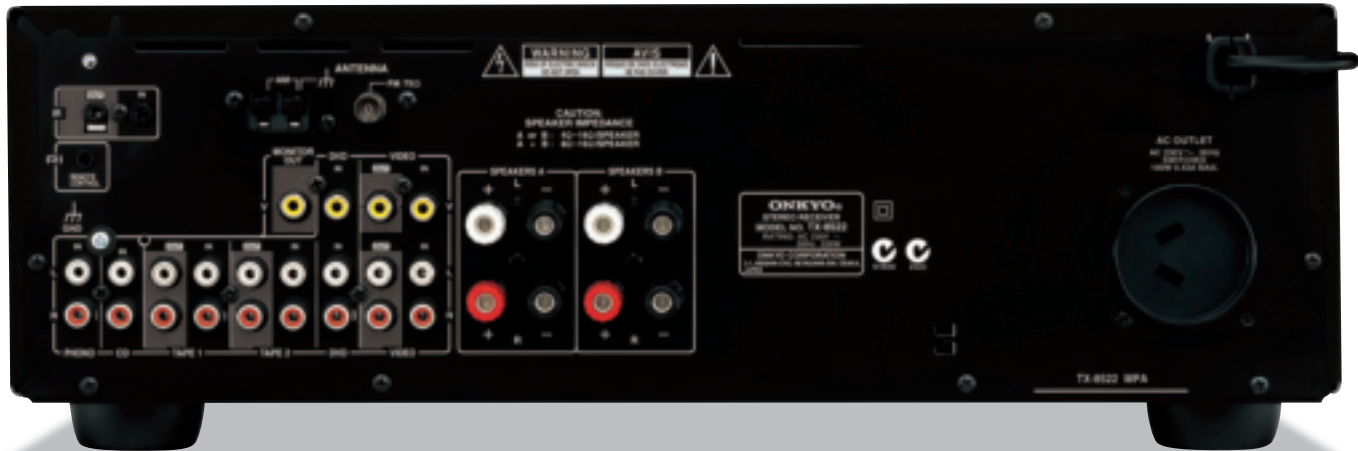
With speaker A/B selectors and speaker terminals, the TX-8522 can be set up for more than one room. Also, with the IR input you can control the receiver when it is concealed inside a cabinet or when the user is in the remote zone (where the second set of speakers is placed). Of course, it is necessary to use a multiroom A/V distribution and control system such as those available from Niles® and Xantech®. Also, you can use the IR output with an IR emitter to remotely control other components.

iPod Playback through Onkyo's Remote Interactive (RI) System Capability

With Onkyo's RI system capabilities, you can connect other Onkyo components to the TX-8522 and operate them through one single remote control. RI capability also gives you the opportunity to integrate the iPod with the TX-8522 through Onkyo's RI Dock for the iPod (DS-A1). Simply connect the dock to the TX-8522, place your iPod in the dock and relish the fuller sound that just can't be experienced through headphones. RI capability also gives you remote operability over your iPod for hands-off control over your digital music files. The DS-A1 is compatible with most iPod models, and will also accommodate the latest iPod releases.

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Amplifier, Processing and Connectivity Features

- 100 watts per channel minimum into 8 ohms, 20 Hz-20 kHz, 0.08 % THD, FTC (2 channels driven); 130 watts per channel minimum into 4 ohms, 1 kHz, JEITA (2 channels driven)
- Wide Range Amplifier Technology (WRAT)
- High-current, low-impedance drive
- Discrete output stage circuitry
- Oversized isolated transformer
- Heavy-duty extruded heat sink for maximum heat dissipation
- A/B speaker selector and outputs to hook up an additional pair of speakers
- 3 audio and 2 A/V inputs
- Phono input
- 2 audio and 1 A/V outputs
- Monitor out
- IR input and output for second room and other component control
- Independent treble, bass and balance controls
- Video and cassette tape dubbing capability
- Tape monitor

FM/AM Tuner Features

- 40 FM/AM random presets with station naming
- Direct access tuning with 10 key buttons

Other Performance Features

- Pure Audio/Direct mode
- Motor-driven, precision volume control
- Headphone jack
- Audio mute, sleep timer (via remote)
- 3-Mode display dimmer (dim/dark/normal)
- Battery-free memory backup
- Non-resonant feet
- Vibration-resistant top panel
- Reinforced chassis side panels
- New slip-free rotary volume knob
- Solid aluminum front panel
- Compatible with RI Dock for the iPod
- Banana plug-compatible speaker posts
- Full-function RI (Remote interactive) remote control



Remote Control

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	100 W + 100 W (8 Ω, 20 Hz-20 kHz, 0.08 % THD, 2 channels driven, FTC) 130 W + 130 W (4 Ω, 1 kHz, 2 channels driven, JEITA)
Dynamic Power	145 W + 145 W (2 Ω) 120 W + 120 W (4 Ω) 75 W + 75 W (8 Ω)
THD (Total Harmonic Distortion)	0.08 % (Rated Power)
Damping Factor	60 (1 kHz, 8 Ω)
Input Sensitivity and Impedance	
Phono.....	2.5 mV/50 kΩ
Line.....	150 mV/50 kΩ
Output Level and Impedance	
Rec out.....	150 mV/2.2 kΩ
Phono Overload.....	120 mV (MM, 1 kHz, 0.5 %)
Frequency Response	10 Hz-100 kHz (+1 dB, -3 dB)
Tone Control	± 10 dB, 100 Hz (BASS) ± 10 dB, 10 kHz (TREBLE)
Signal-to-Noise Ratio	
Phono.....	80 dB (IHF-A)
Line.....	100 dB (IHF-A)
Speaker Impedance	4 Ω-16 Ω

VIDEO SECTION

Input Sensitivity/Output Level and Impedance	
Composite.....	1 Vp-p/75 Ω

TUNER SECTION

(FM)	
Tuning Frequency Range	87.5 MHz-108.0 MHz
Usable Sensitivity	
Stereo.....	22.2 dBf (75 Ω IHF)
Mono.....	15.2 dBf (75 Ω IHF)
Signal-to-Noise Ratio	
Stereo.....	67 dB (IHF-A)
Mono.....	73 dB (IHF-A)
Total Harmonic Distortion	
Stereo.....	0.5 % (1 kHz)
Mono.....	0.3 % (1 kHz)
Frequency Response	30 Hz-15 kHz, ± 1 dB
Stereo Separation	40 dB at 1 kHz
(AM)	
Tuning Frequency Range	522 kHz-1,611 kHz
Usable Sensitivity	300 μV/m
Signal-to-Noise Ratio	40 dB
Total Harmonic Distortion	0.7 %

GENERAL

Power Supply	AC 230 V, 50 Hz
Power Consumption	220 W
Standby Power Consumption	0.3 W
Dimensions (W x H x D)	435 x 150 x 332 mm
Weight	8.4 kg

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IMAGINATIVE SIGHT & SOUND

Onkyo Corporation 2-1 Nishin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: +81-72-831-8136 Fax: +81-72-833-5222 <http://www.onkyo.com/>
Australia: Sole Distributor, Amber Technology Ltd, Unit 8, 5 Skyline Place, Frenchs Forest, NSW, 2086, Sydney, AUSTRALIA, Tel: +61-2-9452-8600 Fax: +61-2-9452-8600
<http://www.ambertech.com.au> e-mail: consumer@ambertech.com.au