An Easy Entry Point into the World of Fully Immersive Home Theater

Continuing our mission to bring quality to every level of home entertainment, Onkyo presents the TX-SR309—an entry-level A/V receiver fine-tuned to power your system right out of the box. Set-up is simple and adjustments are easy, thanks to a new overlaid on-screen display. Also new at this level is PLL jitter-cleaning circuit technology to reduce distortion, and a front-panel USB port that provides a high-quality digital link to your iPod®/iPhone®. To get the best from your compressed audio files, the TX-SR309 employs Onkyo’s proprietary Advanced Music Optimizer. Naturally, the receiver also handles high-def, lossless audio in the form of Dolby® TrueHD and DTS-HD Master Audio™. These are carried by three HDMI® inputs that also support immersive 3D video content. And whether you’re gaming in 3D or not, you can choose from four customized audio modes to match your gaming content. It all adds up to one high-value proposition.
**TX-SR309 5.1-CHANNEL HOME THEATER RECEIVER**

**HDMI® Support for 3D Video and Audio Return Channel**

The three HDMI inputs on the TX-SR309 let you simultaneously connect high-def sources such as a Blu-ray player, a gaming console, and a cable/satellite tuner. A single output then sends a pristine signal to your connected high-resolution display. The HDMI implementation on this receiver supports both 3D video and an Audio Return Channel. 3Dvideo brings exciting possibilities to home entertainment, with movei, game, and broadcast content on the increase and 3D-compatible TVs coming to market. The TX-SR309 also offers the convenience of an Audio Return Channel via HDMI. Audio content received directly by your HDTV’s tuner can be sent “upstream” to your A/V receiver, without the need for a separate SPDIF audio cable.

**Direct Digital Connection of iPod®/iPhone® via Front-Panel USB Port**

The TX-SR309's front-panel USB port lets you access MP3, WMA, AAC, and FLAC audio files stored on a USB flash drive or iPod/iPhone. As the audio signals are transported in digital form, rather than analog, there is much less chance for signal degradation. End result: your music sounds cleaner and more faithful to the original. Another benefit of the USB input is that it lets you use the system’s remote controller to play back audio files on the connected device.

**Decoding of High-Definition Surround-Sound Codecs**

The TX-SR309 can decode Dolby® TrueHD and DTS-HD Master Audio™—two lossless formats that enable delivery of a bit-for-bit soundtrack identical to the studio master track. These codecs take advantage of the high data capacity of the Blu-ray format. The TX-SR309 also handles two “lossy” audio formats: Dolby® Digital Plus and DTS-HD High Resolution Audio. Dolby Digital Plus is designed to accompany high-definition video delivered via disc media, broadcasts, and online content. DTS-HD High Resolution Audio, meanwhile, offers a greater bit rate, a higher sampling rate, and more channels than the core DTS technology.

**Convenient Overlaid On-Screen Display via HDMI**

Changing your A/V receiver's settings is now more seamless than ever thanks to the TX-SR309's overlaid On-Screen Display (OSD) feature. On-screen set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to switch back and forth from a blank screen background.

**Four Audio Game Modes for More Realistic Action**

These four gaming modes create an audio experience with more realism and impact. You can select from Rock, Sports, Action, or RPG (Role Playing Game) modes to match your gaming content.

**192 kHz/24-Bit Ti Burn-Brown DACs Improve Jitter Performance to Deliver Clearer Sound**

High-quality Burn-Brown DACs work to optimize audio performance on the TX-SR309. These DACs perform advanced 24-bit signal processing and support sampling rates up to 192 kHz while displaying high resistance to clock jitter.

**Advanced Music Optimizer to Enhance Compressed Digital Music Files**

While MP3 or AAC files may sound fine through the headphones of your portable digital player, the limitations of these files can be exposed when played back through a quality home entertainment system. This is because a significant amount of high-frequency bit information is lost during the file-compression process. To counter this, Onkyo has designed the Advanced Music Optimizer to compensate for lost bit information and improve the quality of compressed audio signals. This results in a clearer and more expansive sound. Also included in this technology is a loudness correction feature that further improves the audio character of compressed files.

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**SPECIFICATIONS**

**Amplifier Section**

- **Power Output**:
  - Front, L/R: 65 W/Ch (8 ohms, 20 Hz-20 kHz, 0.7% THD+N)
  - Center: 65 W (6 ohms, 1 kHz, 0.9% THD+N)
  - Surround L/R: 65 W/Ch (8 ohms, 20 Hz-20 kHz, 0.7% THD+N)
  - Dynamic Power: 240 W/Ch (4 ohms, 220 Hz-20 kHz, 0.1% THD)
  - Dynamic Power: 215 W/Ch (4 ohms, 220 Hz-20 kHz, 0.1% THD)

**Input Sensitivity and Impedance**

- **Component Video Frequency Response**: 5 Hz–100 MHz/0 dB, -3 dB
- **Component Video Frequency Response**: 1.0 Vp–p/75 ohms (Component)
- **Video Frequency Response**: 5 Hz–100 MHz/0 dB, -3 dB

**Tuner Section**

- **Tuning Frequency Range**: FM 87.5 MHz–107.9 MHz
- **AM 530 kHz–1,710 kHz
- **PLL Preset Memory**: 40 stations

**General**

- **Power Supply**: AC, 120 V–60 Hz
- **Power Consumption**: 32 W
- **Dimensions (WxHxD)**: 17 1/8˝ x 5 7/8˝ x 12 15 /16 ˝
- **Weight**: 21.2 lbs. (9.6 kg)

**Supplied Accessories**

- Indoor P/F antenna
- AM loop antenna
- Speaker cable labels
- Instruction manual
- Quick set-up guide
- Remote controller
- AA (R6) batteries x 2