TX-NR696 7.2-Channel Network A/V Receiver

A harmonious mix of tech and tradition, the TX-NR696 adapts to entertainment life and finds the emotion in every sound source, from 3D film-scores to vinyl records. SMART AV Receiver™ gathers Chromecast built-in™, Works with Sonos, AirPlay 2, and DTS Play-Fi® with streaming services for smooth multi-room audio evolved by support for the new high-speed 802.11ac (2x2 MIMO) Wi-Fi® specification*2. Dolby Atmos® and DTS-X® pull audiences deep into movies and games, THX Certified Select assuring a theater-reference experience. If a 5.2.2-ch setup isn’t possible, Dolby Atmos Height Virtualizer3 and DTS Virtual:X™ can create a 3D sound-field from horizontal speaker layouts. Separate Zone 2 outputs with switching also enable 7-ch layouts in Main plus Zone 2 speakers. With revitalized DAA system, 4K/60p/HDR HDMI® terminals, and many extras, this product excels in every aspect.

**PRODUCT HIGHLIGHTS**

- **210 W/Ch THX® Certified Select™ DAA system**
- **SMART AV Receiver™** Works with Sonos, Chromecast built-in™, AirPlay 2, DTS Play-Fi®, FlareConnect™, Spotify®, Amazon Music, Pandora®, TIDAL, Deezer, TuneIn®
- **Supports 5.2.2-ch Dolby Atmos® and DTS-X® playback**
- **Dolby Atmos Height Virtualizer™ and DTS Virtual:X™**
- **Refined HDMI® grounds, separate SoC board, enhanced power amp**
- **HDMI Sub/Zone 2 output shares media to a second display or projector**
- **Quad-core SoC supports 802.11ac (2x2 MIMO) Wi-Fi® specification**
- **Zone 2/Zone B line-out with DAC shares D/A audio (including HDMI/SPDIF)***
- **Separate Zone 2 outputs distribute D/A audio sources (including HDMI/SPDIF)***
- **Starbar Assign Mode to switch Front playback to Height channels**
- **DSP-based Vocal Enhancer improves dialog audibility**
- **GUI with OSD via HDMI features media input/output data display function**
- **HDMI supports 4K/60p, 4K HDR, 4:4:4/24-bit, BT.2020, HDCP 2.3**
- **AccuEQ Advance with AccuReflex™**
- **One-touch volume-memory-presets for A/V inputs**

**AMPLIFIER FEATURES**

- **Ultra-wide THX® Certified**
- **Custom High-Current Low-Noise Power Transformer**
- **Large custom-made audio power capacitors**
- **Enhanced power-supply line for high-current dynamics**
- **Refined HDMI® grounds, short signal paths reduce noise**
- **SoC board remote from audio paths to reduce noise**
- **High-current drive handles 4-ohm speaker loads**

**VIDEO & AUDIO SUPPORT**

- **Supports HDCP 2.2, 4K60p, HDR (Dolby Vision, HDR10, HLG), 8K, 4:4:4 color-spaces, 3D Video, ARC (Audio Return Channel), DeepColor™, x.v.Color™, and LipSync via HDMI**
- **Dolby Atmos®, DTS:X®, Dolby TrueHD, and DTS-HD Master Audio® decoding**
- **Dolby Atmos Height Virtualizer and DTS Virtual:X 3D processing**
- **Dolby Surround® and DTS Neural:X upmixing technology**
- **THX listening modes for movies, music, and games**
- **Sound optimization for games (Rock, Sports, Action, and RPG)**
- **SACD (Super Audio CD) playback via HDMI**
- **THX-Dimensional virtual surround-sound function**

**NETWORK FEATURES**

- **SMART AV Receiver with wireless multi-room audio platform, streaming service integration, and remote app control**
- **Works with Sonos certified for the Sonos Home System 3**
- **Chromecast built-in and voice control with the Google Assistant®**
- **AirPlay 2 multi-room audio and voice control with Siri®**
- **DTS Play-Fi® multi-room audio with compatible components**
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- **GUI with OSD via HDMI features media input/output data display function**
- **HDMI supports 4K/60p, 4K HDR, 4:4:4/24-bit, BT.2020, HDCP 2.3**
- **AccuEQ Advance with AccuReflex™**
- **One-touch volume-memory-presets for A/V inputs**

**ADVANCED FEATURES**

- **AccuEQ Room Acoustic Calibration and AccuReflex™**
- **Dolby Atmos Height Virtualizer and DTS Virtual:X™**
- **Hi-Res Audio playback via network (DSD 11.2 MHz/5.6 MHz/2.8 MHz, FLAC, WAV [RIFF], AIFF, and ALAC to 192 kHz/24-bit***
- **210 W/Ch THX® Certified Select™ DAA system**
- **Hi-Res Audio playback via network (DSD 11.2 MHz/5.6 MHz/2.8 MHz, FLAC, WAV [RIFF], AIFF, and ALAC to 192 kHz/24-bit***
- **Hi-Res Audio playback via network (DSD 11.2 MHz/5.6 MHz/2.8 MHz, FLAC, WAV [RIFF], AIFF, and ALAC to 192 kHz/24-bit***
- **Hi-Res Audio playback via network (DSD 11.2 MHz/5.6 MHz/2.8 MHz, FLAC, WAV [RIFF], AIFF, and ALAC to 192 kHz/24-bit***
SMART AV Receiver™ leads in multi-room audio
SMART AV Receiver is the heart of your home entertainment system. Access streaming content from Amazon Music, Pandora®, Spotify®, TIDAL, Deezer, and TuneIn and share content as part of a multi-room setup via Works with Sonos, Chromecast built-in™, Apple AirPlay 2, DTS Play-Fi®, and FlareConnect®.

* The unit may automatically download and apply on Onkyo's AV receiver update during startup.

Works with Sonos
The TX-NR696 can join your existing Sonos Home Sound System or be the first step in a new one, just by pairing it with a Sonos Connect®. The AVR ties into the Sonos ecosystem, waking, changing inputs, and playing at the desired volume on command from the Sonos app®.

Chromecast built-in™ with the Google Assistant
Stream any music from your smartphone, laptop, or PC to the receiver with ease. Control playback with Chromecast-enabled apps you know and love from your iPhone, iPad, Android™ phone or tablet, Mac or Windows® laptop, or Chromecastbook. If you have a smart speaker featuring the Google Assistant, you can cue, play, and control music playback by voice.

* The unit may automatically download and apply on Onkyo's AV receiver update during startup.

THX® Certified Select™ theater-reference sound
THX® Certified Select guarantees the same reference volume and sound quality at a commercial theater in rooms where the viewing position is about 10–12 ft. from the screen. To deliver THX-reference movie sound, receivers must pass 2,080 bench-tests in 75 categories covering 14,000 data points.

Dolby Atmos® and DTS:X®—setting sound free
dolby Atmos® and DTS:X® formats allow engineers to map sound anywhere in 3D space, effects moving from speaker to speaker all around the room and wrapping your audience in the latest films and games. You can also enjoy your 3D speaker layout with classic titles. Dolby Surround® and DTS® Neo:XR find overhead cues in legacy soundtracks and non-directional sounds. Enjoy a cohesive 3D sound-field with vertical movement and overhead dimensionality.

Dolby Atmos Height Virtualizer
When playing any Dolby® format, engaging Dolby Atmos Height Virtualizer creates an immersive 3D sound-field from horizontal speaker layouts without requiring height-speaker connection. It uses DSP algorithms to create a sense of 3D spatiality and in audible dialog in TV programs and music of TV-channel, plus key aspect of the power-supply line have been strengthened and upgraded in pursuit of driving power, which you can hear in the blurring attack speed and force of the bass, and in the clearer separation and localization of instruments across a large and spacious soundstage.

Zone 2 outputs share audio flexibility
Zone 2 outputs enable 7.1-channel Main plus stereo speakers in Zone 2. Distribute different analog NET, Bluetooth®, SPDIF, and HDMI audio sources in either or both zones at the same time (there’s a Zone 2 DAC) just by switching to a 5.1-to-7.1 layout. Output from Zone 2 and Zone 2 line-out enabled.

• HDMI and SPDIF support PCM audio only HDMI audio available on inputs 1-3.

Quad-core SoC supports 802.11ac Wi-Fi®
A quad-core SoC (System on a Chip) has power to perform multiple processing tasks at once. It evolves network functions and supports the latest high-speed 802.11ac (2x2 MIMO) specification while compatible with 802.11a/b/g/n dual-band routers.

Share audio or listen privately
Connect an audio system via analog RCA input and the AVR’s Zone 2/Zone B line-out. With Zone 2, you can play the same or different analog/digital sources (including SPDIF and HDMI) in either or both rooms at the same time. Zone 2 is ideal for connecting a compatible transmitter so you can listen to any source—including the TV—through wireless headphones. Perfect for midnight movies and TV.

Clearer dialog at the touch of a button
This technology solves inaudible dialog in TV programs and movies. DSP-controlled Vocal Enhancer identifies voice frequencies so you can raise or lower them with keys on the remote or via the controls on the front panel.

Relax with Stereo Assign Mode
At the touch of a button, Stereo Assign Mode switches playback from Front speakers to either Surround, Rear, Surround, or Height speaker pairs. Ideal for ambient listening, BGM, or any time you want to create a relaxing atmosphere.

AccuEQ Room Acoustic Calibration with AccuReflex™
AccuEQ creates a harmonious sound-field in your room. It detects speaker presence, size, impedance, and distance from a measurement position, and sets sound levels accordingly. It then selects the subwoofer crossover and EQ’s all speakers, including the sub. AccuReflex optimizes 3D audio reproduction through Dolby Atmos-enabled speakers. It resolves phase-shift that arise from path differences between directional and non-directional sounds. Enjoy a cohesive 3D sound-field with vertical movement and overhead dimensionality.

SPECIFICATIONS

**Amplifier Section**

**Power output (All channels)**
- 210 W/WCH (6 ohms, 1 kHz, 0.08% THD, 2-ch driven, FTC)
- 100 W/WCH (8 ohms, 20 Hz–20 kHz, 10% THD, 2-ch driven, FTC)

**Dynamic power**
- 240 W (4 ohms, Front)
- 210 W (4 ohms, Front)
- 120 W (4 ohms, Front)

**THD+N (Total Harmonic Distortion + Noise)**
- 0.08% (20 Hz–20 kHz, half power)

**Input sensitivity and impedance**
- 200 mV rms/2k-ohms (Line)
- 1.5 mV rms/15-ohms (Phono, MM)

**Rated RCA output level and impedance**
- 1 V rms/2k-ohms (Subwoofer pre-out)
- 200 mV rms/2.3 k-ohms (Line)

**Frequency response**
- 10 Hz–100 kHz, +/-3 dB (20 Hz–20 kHz)

**Tone control**
- 40 Hz, 0.02 dB (Roll)
- +/-15 dB, 20 kHz (Treble)

**Signal-to-noise ratio**
- 106 dB (Line, HI-FI)
- 80 dB (Phono, HI-FI)

**Speaker impedance**
- 4 ohms–8 ohms

**Tuner Section**

**Tuning frequency range**
- FM 87.5 MHz–107.9 MHz
- AM 530 kHz–1,710 kHz

**PHONES jack**
- 3.5 mm jack

**General**

**Power supply**
- 120 V ±10%, 60 Hz

**Power consumption**
- 630 W

**No-load power consumption**
- 65 W

**Standby power consumption**
- 0.15 W

**Dimensions (W x H x D)**
- (7’’ x 5’’ x 3’’)
- (177 x 127 x 76 mm)
- (177 x 127 x 76 mm)
- (435 x 173 x 197 mm)

**Weight**
- 229 lbs (105 kg)

**UPC CODE**
- 8889287400222

**CARTON**

**Dimensions (W x H x D)**
- 21 1/4” x 19 1/8” x 14 1/8”
- (537 x 486 x 368 mm)

**Weight**
- 12.6 lbs (5.7 kg)

**Supplied Accessories**
- Indoor FM antenna + AM loop antenna + Speaker setup microphone + Quick Start Guide + Remote controller + AAA (R03) batteries x 2

Note: * Enabled with a future firmware update.

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