TX-NR595 7.2-Channel Network A/V Receiver

Smart, simple, sensational surround-sound

With six HDMI® inputs and dual outputs integrating players, TV, and projector, you’re set for a 4K HDR video experience inside Dolby Atmos® or DTS:X® sound delivered through any speaker layout. Dolby Atmos Height Virtualizer® and DTS Virtual:X™ create an immersive 3D soundfield without height or surround speakers connected, while Dolby Surround and DTS® Neural:X add overhead dimensionality to regular soundtracks when played through layouts with height speakers. SMART AV Receiver™ bundles Amazon Music, Spotify®, Pandora®, TIDAL, Deezer, and TuneIn together with Works with Sonos, AirPlay 2®, DTS Play-Fi®, and FlareConnect™ solutions so you can enjoy wireless audio all around your home. Powered Zone 2 speaker outputs can play the same or different sources (including HDMI) in one or both zones, and you can keep your surround layout connected and switch between MAIN and Zone 2 in seconds. Joined by stress-melting features such as an all-new simple remote with DSP-based Vocal Enhancer function, and backed by DAA’s high-current muscle, this A/V powerhouse has everything it takes to make life great. *Updated with a future firmware update.

PRODUCT HIGHLIGHTS

- 170 watts per channel
- Works with Sonos
- SMART AV Receiver™ with Spotify®, Amazon Music, Pandora®, TIDAL, Deezer, TuneIn™, and multi-room audio technologies
- Supports AirPlay 2™
- Dolby Atmos® and DTS:X® playback
- Dolby Atmos Height Virtualizer® and DTS Virtual:X™
- Supports 4K/60p and HDR (HDMI10, HLG, Dolby Vision®, BT.2020)
- Dynamic Audio Amplification with High-Current Low-Noise Power Transformer
- AccuEQ with subwoofer EQ and AccuReflex™
- Vocal Enhancer function improves voice audibility
- Zone B line-out shares any audio source to components with an RCA input, such as wireless headphones, docks, etc.
- Two HDR8 outputs for simultaneous TV and projector connection (MAIN/SUB)
- 1080p Full HD to 4K Ultra HD upscaling over HDMI

AMPLIFIER FEATURES

- 170 WPC (6 ohms, 1 kHz, 1% THD, 1 channel driven), 80 WPC (8 ohms, 20 Hz–20 kHz, 0.08% THD, 2 channels driven, FTC)
- Dynamic Audio Amplification
- High-Current Low-Noise Power Transformer
- Customized power capacitors and quality audio parts
- Wide-range non-phase-shift amplifier topology
- Discrete low-distortion amplifier output stages
- High-current driving power for 4-ohm speakers

VIDEO & AUDIO SUPPORT

- Supports HDCP 2.2, 4K60p, HDR (Dolby Vision, HDR10, HLG, BT.2020), 4:4:4 color-space, BT.2020, 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™ sound processing
- Dolby Surround® and DTS® Neural:X upmixing technologies
- Supports SACD (Super Audio CD) Playback via HDMI (2.0 kHz/24-bit, multichannel)
- High-grade AK4458 (44.1 kHz/32-bit multichannel) D/A conversion
- VLSC™ (Vector Linear Shaping Circuitry) digital output filtering
- PLL (Phase Locked Loop) anti-jitter technology for S/PDIF audio
- Dolby Atmos® and DTS:X® playback
- Dolby Atmos Height Virtualizer® and DTS Virtual:X™
- Supports AirPlay 2®, DTS Play-Fi®, and FlareConnect™ multi-room audio with remote app control
- Supports Onkyo Controller™ streaming and remote app
- Hi-Res Audio playback (DSD 5.6 MHz/2.8 MHz+, FLAC, WAV, RIFF, AIFF, and ALAC to 192 kHz/24-bit*)
- Bluetooth® wireless audio streaming technology

CONNECTION FEATURES

- Stable and secure dual-band 5 GHz/2.4 GHz Wi-Fi®
- Built-in phono pre-amp equalizer for Moving Magnet (MM) cartridges
- 6 HDMI inputs and 2 outputs (MAIN with ARC, SUB)
- 2 digital audio inputs (optical/coaxial, assign able)
- 4 analog RCA inputs (assignable)
- 1/4˝ (3.5 mm) AUX analog input (front)
- 1/2˝ (6.35 mm) headphone jack (front)
- 1/4˝ (3.5 mm) AccuEQ setup mic input (front)
- 7 banana-plug-compatible screw-type speaker posts
- Dedicated banana-plug compatible screw-type speaker posts for Zone 2 audio distribution
- Zone B analog RCA line-out
- 2 subwoofer pre-outs
- Ethernet LAN terminal for wired network connection
- Rear USB input for audio playback

ADVANCED FEATURES

- Advanced Music Optimizer™ improves playback quality of compressed audio
- AccuEQ Room Acoustic Calibration, Subwoofer EQ, and AccuReflex™
- DSP Vocal Enhancer boosts dialog audibility via remote keys or front panel
- Dedicated Powered Zone 2 speaker outputs with Zone 2 DAC and switching function supports playback of unique digital and analog sources in both zones simultaneously*
- Zone B Line Out shares audio to audio components with RCA line input
- 1080p Full HD to 4K Ultra HD upscaling over HDMI
- GUI with overlaid OSD over HDMI
- ACC-Ready with dual-band 5 GHz/2.4 GHz Wi-Fi®
- 3-mode display dimmer (normal/dim/dimmer)
- IP control support for home automation systems via LAN
- A/V Sync Control (up to 500 ms in 5 ms steps at 48 kHz)
- On-screen guide displays step-by-step instructions for quick and easy setup
- Standby (All), CEC Standby, Network Standby, Bluetooth Wake on Play Standby, and HDMI Pass-through modes
- 3-mode display dimmer (normal/dim/dimmer)
- 40 PM/AM random presets
- Redesigned simple remote control
- Works with Amazon Alexa, Apple Music, Spotify®, and other services
- Bluetooth® wireless audio streaming technology
- Home sound and networking technologies

* Requires Wi-Fi® and IP networking and a wired or wireless Ethernet connection.
* Dolby Digital Plus/Dolby TrueHD and DTS-HD Master Audio provide soundtracks with explicit lossless sound for the highest quality audio reproduction in Dolby Atmos® and DTS:X®.
* HDMI audio distribution is supported on inputs 1-3.
* Dynamic Audio Amplification (DAA) is a software technology for higher power output with reduced distortion.
* Subwoofers require additional power, high-current power supply, and installation.
* 4K/60p and HDR (HBR10, HLG, Dolby Vision®, BT.2020) supported to a maximum 96 kHz. *8 Zone 2 audio distribution function supports PCM 32 kHz/24-bit audio only. *7 Supported sampling rates may vary depending on network environment. ALAC is not supported to a maximum 96 kHz. *8 Zone 2 audio distribution function supports PCM audio only. HDMI audio distribution is supported on inputs 1–3.
Introducing Onkyo SMART AV Receiver™
SMART AV Receiver integrates Amazon Music, Pandora®, Spotify®, TIDAL, Deezer, and TuneIn and supports multi-room audio with Works with Sonos, AirPlay 2, DTS Play-Fi®, and FlareConnect™. Manage music by voice with Siri, enjoy the DTS:X® experience. These object-based audio formats let any surround or height speakers.

Dolby Atmos Height Virtualizer
When playing any Dolby® format, engaging Dolby Atmos Height Virtualizer enables a more immersive listening experience, creating a virtual surround and height effect from traditional speaker layouts without employing additional surround or height speakers.

Spatial sound elevated with DTS Virtual:X™
DTS Virtual:X is a surround virtualization technology that creates an immersive 3D soundfield from any speaker layout without height, surround, or rear surround speakers deployed. It uses DSP algorithms to place the audience at the center of a 3D soundfield with height and surround spatiality. DTS Virtual:X works with DTS:Connec
tics.

Dynamic Audio Amplification
DAA has been refined over 70 years to deliver an emotional listening experience. It features a custom High-Current Low-noise Power Transformer, custom capacitors, and discrete components with RCA line inputs to the receiver's audio section.

Rich analog sound from any digital source
High-quality 384 kHz/32-bit D/A conversion is enhanced by V-LSC™ filtering (Front L/R channels), an original technology that erases digital noise arising from D/A conversion. Enjoy the purity of Hi-Res Audio sound field and streaming music.

Playing anywhere with Powered Zone 2
Connect speakers in another room to the Powered Zone 2 outputs to share analog and digital audio sources, including HDMI® inputs and digital audio. These terminals are separate from those connecting your home theater, so keep your 7.2.5 or 7.2.2-channel layout and switch to multi-zone audio anytime using remote or Onkyo Controller. Play different sources in either zone simultaneously, synchronize playback in both, or distribute audio from Zone 2 exclusively.

Dynamic Audio Amplification
This technology solves inaudible dialog distortion arising from path differences between directional and non-directional sounds. Enjoy a cohesive 3D soundfield with vertical movement and overhead dimensionality.

Phono input for your record player
Plug your turntable into the receiver and enjoy your vinyl record collection. The TX-NR595 has a discrete low-noise phono pre-amp compatible with MM cartridges.

AccuEQ Room Acoustic Calibration with AccuReflex™
AccuEQ creates a harmonious soundfield in your room. It detects speaker presence, size, impedance, and distance from a measurement position, and sets sound-pressure levels. It then sets the subwoofer crossover and EQ's all speakers, including the sub. AccuReflex optimizes 3D audio reproduction through Dolby Atmos-enabled speakers. It resolves phase-shifting among different directional and non-directional sounds.

Dynamic Audio Amplification
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