

TX-NR595 7.2-Channel Network A/V Receiver



BLACK



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. **Enabled 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 2²
- 5.2.2-ch Dolby Atmos® and DTS:X® playback
- Dolby Atmos Height Virtualizer² and DTS Virtual:X™²
- Supports 4K/60p and HDR (HDR10, 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 headphone docks, etc.
- Two HDMI outputs for simultaneous TV and projector connection (MAIN/SUB)
- 1080p Full HD to 4K Ultra HD upscaling over HDMI

- Dolby Atmos®, DTS:X®, Dolby® TrueHD, and DTS-HD Master Audio® decoding
- Dolby Atmos Height Virtualizer and DTS Virtual:X 3D sound processing
- Dolby Surround® and DTS® Neural:X upmixing technologies
- Supports SACD (Super Audio CD) Playback via HDMI (2.8 MHz/2ch, multi-channel)
- High-grade AKM (AK4458) 384 kHz/32-bit multichannel D/A conversion
- VLSC™ (Vector Linear Shaping Circuitry) digital output filtering (Front L/R)
- PLL (Phase Locked Loop) anti-jitter technology for S/PDIF audio
- DSP Sound Enhancement Modes for gaming (Rock, Sports, Action, and RPG)
- Theater-Dimensional virtual surround-sound function
- Direct Mode for audio reproduction close to original source quality
- Tone controls (bass/treble) for front L/R channels

NETWORK FEATURES

- Works with Sonos integration with the Sonos Home Sound System³
- SMART AV Receiver integrates streaming services, Works with Sonos, AirPlay 2², DTS Play-Fi®, and FlareConnect™ multi-room audio with remote app control
- Supports Onkyo Controller⁵ streaming and remote app
- Hi-Res Audio playback (DSD 5.6 MHz/2.8 MHz⁴; FLAC, WAV [RIFF], AIFF, and ALAC to 192 kHz/24-bit⁷)
- 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, assignable)
- 4 analog RCA inputs (assignable)
- 1/8" (3.5 mm) AUX analog input (front)
- 1/4" (6.35 mm) headphone jack (front)
- 1/8" (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 simultaneously⁸
- 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
- Direct Mode for audio reproduction close to original source quality
- Tone controls (bass/treble) for front L/R channels
- Crossover adjustment for each channel (40/50/60/70/80/90/100/120/150/180/200 Hz)
- 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 system setup
- Standby (All), CEC Standby, Network Standby, Bluetooth Wake on Play Standby, and HDMI Passthrough modes
- IP control support for home automation systems via LAN
- 3-mode display dimmer (normal/dim/dimmer)
- 40 FM/AM random presets
- Redesigned simple remote control

AMPLIFIER FEATURES

- 170 W/Ch (6 ohms, 1 kHz, 10% THD, 1 channel driven), 80 W/Ch (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, 4K/60p, 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

^{*1} Service availability varies with region and a paid subscription may be required to access some or all features. ^{*2} Enabled with a future firmware update. ^{*3} Sonos Connect sold separately. ^{*4} FlareConnect is a proprietary network protocol that shares select audio sources between FlareConnect-ready components. Please visit the Onkyo website for details on product compatibility. ^{*5} Available free for iPhone, iPad, and Android™ devices. Please check device and OS requirements before download and installation. ^{*6} Converted to PCM. Playback not guaranteed via wireless LAN. ^{*7} Supported sampling rates may vary depending on network environment. ALAC is 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.

TX-NR595 7.2-Channel Network A/V Receiver

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 beautiful Sonos app, or unlock the flexibility of Onkyo apps for stress-free entertainment control around your home.

Note: AirPlay 2 enabled with a future firmware update. Sonos app available free for iPad, iPhone, and Android™ at the App Store and Google Play. Please check device and OS compatibility before installation.



Works with Sonos

The TX-NR595 can join your existing Sonos Home Sound System, or be the start of a new one, by pairing it to a Sonos Connect®. The AVR ties in seamlessly to the Sonos ecosystem, instantly waking, changing inputs, and playing at the desired volume on command from the Sonos app, via RCA or digital audio terminals, flexibility and sound quality are outstanding.

* Sonos Connect sold separately.

Feel more with Dolby Atmos® and DTS:X®

The TX-NR595 supercharges your Dolby Atmos® and DTS:X® experience. These object-based audio formats let any sound play through any speaker, tracking the action, localizing effects, and moving all around you. Dolby Surround and DTS® NeuralX find overhead cues in legacy soundtracks and upmix them for playback through height channels, creating top-to-bottom dimensionality.



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.

Note: Enabled with a future firmware update.

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 codecs.

Note: Enabled with a future firmware update.

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 wide-range amps. Unique circuit topology prevents phase-shift for extremely clear sound that's true to the source. High current through low impedance gives superior control over the speakers for better detail resolution, faster dynamics, and more energy. Capable of pushing 4-ohm loads with all channels driven, DAA has power to move you.



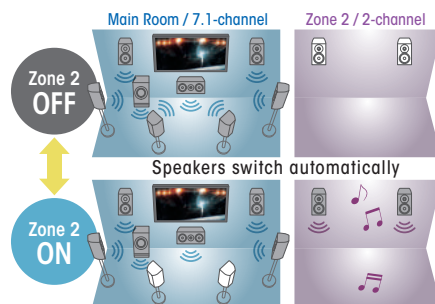
Rich analog sound from any digital source

High-quality AKM 384 kHz/32-bit D/A conversion is enhanced by VLSC™ filtering (Front L/R channels), an original technology that erases digital noise arising from D/A conversion. Enjoy the purity of Hi-Res Audio sources, CD, and streaming music.

Play anything anywhere with Powered Zone 2

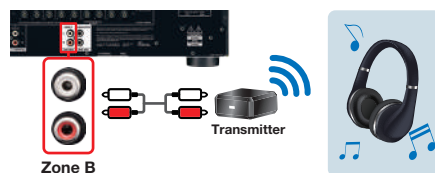
Connect speakers in another room to the Powered Zone 2 outputs to share analog and digital audio sources, including HDMI® inputs* and digital audio. These terminals are separate from those connecting your home theater, so keep your 7.2 or 5.2.2-ch layout and switch to multi-zone audio anytime using remote or Onkyo Controller. Play different sources in either zone simultaneously, synchronize playback in both, or distribute audio to Zone 2 exclusively.

*Zone 2 audio distribution function supports PCM audio only. HDMI audio distribution is supported on inputs 1-3.



Share content or relax in privacy

The TX-NR595 features a Zone B line-out to connect any component with RCA line inputs to the receiver's audio sources, including HDMI and digital audio. Share sound to a different room or connect a supported wireless headphone dock so you can game, listen, and watch without disturbing others.



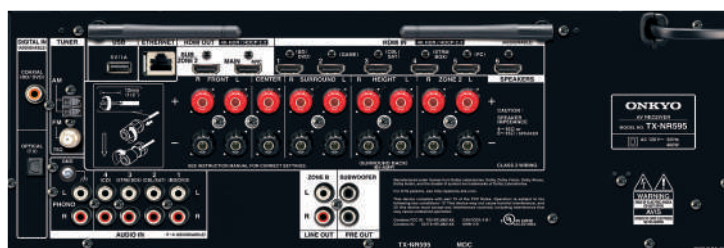
Clearer dialog at the touch of a button

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.



Ready for 4K HDR entertainment

Enjoy support for HDR (High Dynamic Range) video including HDR10, HLG, Dolby Vision®, and BT.2020. The 4:4:4 color space is also supported. Six HDMI inputs, ARC-ready MAIN OUT, and SUB OUT pass 4K/60p and HDR video from player to compatible TV and projector and all terminals are HDCP 2.2 compliant.



Text on receiver may vary by region.

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 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 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.

SPECIFICATIONS

Amplifier Section

Power output (All channels)

170 W/Ch (6 ohms, 1 kHz, 10% THD, 1 channel driven)
80 W/Ch (8 ohms, 20 Hz–20 kHz, 0.08% THD, 2 channels driven, FTC)

Dynamic power

160 W (3 ohms, Front)
125 W (4 ohms, Front)
85 W (8 ohms, Front)

THD+N (Total Harmonic Distortion + Noise)

0.08% (20 Hz–20 kHz, half power)

Input sensitivity and impedance

200 mV rms/47 k-ohms (Line)
3.5 mV rms/47 k-ohms (Phono MM)

Rated RCA output level and impedance

1 V rms/470 ohms (Subwoofer pre-out)
200 mV rms/2.3 k-ohms (Zone B line out)

Frequency response

10 Hz–100 kHz/±1 dB, -3 dB (Direct Mode)

Tone control

±10 dB, 20 kHz (Treble)

Signal-to-noise ratio

106 dB (Line, I/HF-A)
80 dB (Phono, I/HF-A)

Speaker impedance

4 ohms–16 ohms

Tuner Section

Tuning frequency range

FM 87.5 MHz–107.9 MHz
AM 530 kHz–1,710 kHz

FM/AM preset memory

40 Stations

General

Power supply

AC 120 V~, 60 Hz

Power consumption

460 W

No-sound power consumption

55 W

Standby power consumption

0.15 W

Dimensions (W x H x D)

17 1/8" x 6 13/16" x 14 13/16"

Weight

(435 x 173.5 x 379.5 mm)
20.7 lbs. (9.4 kg)

UPC CODE

(B) 889951001683

CARTON

Dimensions (W x H x D)

21 1/4" x 10 7/16" x 18 7/16"

Weight

(534 x 265 x 468 mm)
26.5 lbs. (12.0 kg)

Supplied Accessories

• Indoor FM antenna • AM loop antenna • Speaker setup microphone

• Quick Start Guide • Remote controller • AAA (R03) batteries x 2

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