

TX-NR585 7.2-Channel Network A/V Receiver



Bring 4K/60p video in HDR10, HLG, or Dolby Vision™ formats from source to screen with Dolby Atmos® and DTS:X® object-based sound for your 5.2.2-channel speaker system, driven effortlessly by Dynamic Audio Amplification. Entertainment continues beyond the home theater with synchronized multi-room audio over Chromecast built-in that works with the Google Assistant, DTS Play-Fi® technology, and FlareConnect™. There are six HDMI® inputs; a phono input with MM pre-amp for your record player; video connections for legacy game consoles; and Powered Zone 2 outputs. Clear and immersive stereo playback meets Spotify, TIDAL, and Amazon Music for easy listening on demand. With high-res audio-video performance to match an unbeatable feature set, now's the time to introduce your family to tomorrow's entertainment.

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HIGHLIGHTS

- Supports 5.2.2-channel Dolby Atmos® and DTS:X® playback
- 170 W per channel
- HDMI® 6 in / Main Out supporting 4K/60 Hz, HDR10, HLG, Dolby Vision™, BT.2020, and HDCP 2.2 pass-through
- Dynamic Audio Amplification with 4-ohm speaker-driving capability
- Built-in MM phono stage
- Supports Chromecast built-in and works with the Google Assistant
- Dual-band Wi-Fi®, DTS Play-Fi®, AirPlay, Amazon Music, Spotify, TIDAL, Deezer, Pandora®, TuneIn¹
- FlareConnect™ wireless multi-room audio

ADVANCED FEATURES

- HDMI terminals supporting HDR10, HLG, Dolby Vision, BT.2020, and 4K/60 Hz pass-through compliant with HDCP 2.2
- 5.2.2-channel Dolby Atmos playback and Dolby Surround upmixing for audio formats including DTS® codecs
- 5.2.2-channel DTS:X playback and DTS Neural:X® 3D upmixing supporting Dolby® formats
- AccuEQ Room Acoustic Calibration with AccuReflex™ phase alignment for Dolby Atmos-enabled speakers
- Built-in low-noise phono pre-amp equalizer for Moving Magnet (MM) cartridges
- Stable 5 GHz/2.4 GHz Wi-Fi connectivity
- Supports Onkyo Controller app² for intuitive multi-room operation
- Chromecast built-in wireless audio streaming technology that works with the Google Assistant
- DTS Play-Fi multi-room audio with Onkyo Music Control App³
- Supports audio streaming from iPad, iPhone, Mac, and iTunes via AirPlay

- Hi-Res Audio playback including DSD 5.6 MHz/2.8 MHz⁴, 192 kHz/24-bit FLAC⁴, WAV (RIFF)⁴, AIFF, ALAC⁴, and Dolby® TrueHD⁴
- Amazon Music, Spotify, TIDAL, Pandora, and Deezer music streaming services and TuneIn internet radio
- FlareConnect multi-room audio distribution to compatible components
- Powered Zone 2 speaker outputs and Zone 2 line-output with DAC supporting digital⁵ and analog audio playback
- Bluetooth® wireless audio technology for mobiles, laptops, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Advanced Music Optimizer improves compressed digital audio quality, including Bluetooth audio
- Support for front L/R bi-amping in a 5.2-channel speaker layout
- 480i de-interlacing (480i to 480p) via HDMI for legacy video formats

AMPLIFICATION 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 for thrilling multichannel and stereo sound
- High-current power drives large speakers with 4-ohm resistance
- H.C.P.S. (High Current Power Supply) customized transformer
- VLSC (Vector Linear Shaping Circuitry) high-frequency noise removal technology (Front L/R channels)
- Non-phase-shift amplification circuitry for a clear and cohesive audio image
- Discrete output stage circuitry for low distortion

PROCESSING FEATURES

- Dolby Atmos and DTS:X reproduction (supports 5.2.2 channels)
- HDMI support for 4K/60 Hz, HDR10, HLG, Dolby Vision, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby Atmos, Dolby TrueHD, DTS:X, DTS-HD® Master Audio™, DSD, DVD-Audio, Super Audio CD (SACD), multichannel PCM, and CEC
- High-grade AKM (AK4458) 384 kHz/32-bit multichannel DAC
- PLL (Phase Locked Loop) jitter-cleaning technology for S/PDIF audio

- 32-bit Digital Signal Processing (DSP)
- Listening 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

CONNECTION FEATURES

- 6 HDMI inputs and 1 output
- Powered USB terminal (5 V, 1 A) for audio playback (rear)
- 2 composite video inputs and 2 component video inputs
- 3 digital audio inputs (2 optical and 1 coaxial)
- 6 analog audio inputs, 1 stereo 1/8" (3.5 mm) analog input (front)
- Phono input (MM) and equalizer for turntable connection
- 2 subwoofer pre-outs
- 1/4" (6.35 mm) headphone jack (front)
- Speaker setup mic input (front)
- Banana-plug-compatible speaker posts

OTHER FEATURES

- 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)
- Graphical User Interface with overlaid On-Screen Display via HDMI
- Quick Setup Guide via GUI and easy connection diagram on rear panel
- Easy-to-use input selector buttons
- Economical HDMI pass-through and Network Standby functions
- IP control support for home automation systems
- 3-mode display dimmer (normal/dim/dimmer)
- 40 FM/AM random presets
- Simple remote control

¹ Availability of services may vary by region. Subscription may also be required.
² Visit App Store or the Google Play Store to check device and OS requirements and download free. ³ Converted to PCM. Playback not guaranteed via wireless LAN.
⁴ Supported sampling rate via wireless LAN depends on network environment. ALAC supported up to 96 kHz. ⁵ Not guaranteed via wireless LAN. ⁶ Powered Zone 2 speaker output supports analog audio, AM/FM tuner, NET, USB, and Bluetooth audio distribution.

TX-NR585 7.2-Channel Network A/V Receiver

Dolby Atmos® and DTS:X® with upmixing solutions

With Dolby Atmos and DTS:X soundtracks, individual sounds are mixed to play through any speaker in your system—they're not tied to specific channels. Enjoy lifelike reproduction of movie and game sound. DTS Neural:X® and Dolby Surround technologies find cues in legacy soundtracks and upmix for playback through your 5.2.2-channel system. Cross-compatibility with Dolby® TrueHD, DTS-HD® Master Audio™ technology, and Dolby® Digital creates multi-dimensional sound for movies on DVD, Blu-ray Disc™, or video streaming service.



Phono input for your record player

Own a turntable? Plug it straight into the receiver and enjoy rich and dynamic playback of your vinyl record collection. The TX-NR585 has a discrete low-noise phono pre-amp compatible with moving-magnet cartridges.

Wi-Fi® and Bluetooth® wireless connectivity

Built-in 5 GHz/2.4 GHz Wi-Fi provides network stability for streaming, Onkyo Controller app, and multi-room audio. Bluetooth wireless technology is also on board for easy mobile or laptop connection.



Onkyo Controller app entertainment management

Onkyo Controller app collects available streaming services and your network-attached audio into one easy-to-use interface. Select sources, control playback, explore content, and distribute audio around the home with ease.



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 from your iPhone, iPad, Android™ phone or tablet, Mac or Windows laptop, or Chromebook™. If you have a smart speaker featuring the Google Assistant built-in (such as Onkyo Smart Speaker G3), you can cue and control music on the TX-NR585 by voice.



Ready for DTS Play-Fi® multi-room audio

DTS Play-Fi technology allows you to enjoy high-quality music from connected online services, media server, and mobile device library to any number of compatible products using Onkyo Music Control App for iPad, iPhone, and Android smartphones/tablets. DTS Play-Fi technology can synchronize music in every room, and family members can use their own device to listen in a room or group of rooms. Structure a comprehensive multi-room ecosystem to satisfy virtually any need.



Supports AirPlay

Music lovers have easy access and control of their entire iTunes music library through their receiver. Find and stream music from iPad, iPhone, Mac, and PC over the Apple AirPlay wireless audio platform.



More streaming services and internet radio

Amazon Music, Spotify, TIDAL, Deezer, Pandora®, and Tunes are all baked in, making entertainment selection easy using Onkyo Controller or Onkyo Music Control App.



FlareConnect™ wireless multi-room audio

FlareConnect shares audio from network and external audio input sources between compatible components. Enjoy effortless multi-room playback of LP records, CDs, network music services, and more with supported components and speaker systems. Music selection, speaker grouping, and playback management across the home are built into the Onkyo Controller app.



Note: For external input availability visit <http://www.onkyo.com/flareconnect>. Download Onkyo Controller free from the App Store or Google Play.

Supports 4K HDR, BT.2020, 4K/60 Hz, and HDCP 2.2

Six HDMI® inputs and one ARC-enabled output pass 4K HDR video in HDR10, HLG, and Dolby Vision™ formats through to compatible displays. All support BT.2020 4K video standard, 4K/60 Hz playback, and HDCP 2.2.



HDCP 2.2

HDR10, HLG, BT. 2020

Multi-room audio with Powered Zone 2 outputs

Connect speakers to Powered Zone 2 speaker outputs to enjoy audio sources available to the receiver, including analog, AM/FM tuner, NET, USB, and Bluetooth® audio, in another room. Play a source in Zone 1 (Main) or Zone 2, synchronize playback in both rooms, or play a different source in each zone at once, all while retaining a 5.2-ch home-theater layout. Zone 2 line-level output distributes these sources to a hi-fi if you want a 5.2.2-ch surround system in your media room.

Dynamic Audio Amplification

High-current power is proven by the ability to drive four-ohm speakers, which will test the toughest multichannel amplifier. Heaps of current equals better control, dynamics, fluency, and expressiveness. Non-phase-shift amp circuitry presents a clear and cohesive audio image, while VLSC™ removes high-frequency noise from digital audio sources for clean and natural reproduction.

AccuEQ Room Calibration with AccuReflex

AccuEQ ensures your receiver and speakers are calibrated for best performance. It calculates speaker distance from the listening position, adjusts speaker sound-pressure level, and sets the crossover position. AccuReflex™ technology, meanwhile, optimizes performance of your Dolby Atmos-enabled speakers for clear sound at the listening position. The phase of direct and indirect sounds is aligned for seamless presentation of object-based soundtracks.

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/47 k-ohms (Line) 3.5 mV/47 k-ohms (Phono)
Rated RCA output level and impedance	
	1 V/470 ohms (Subwoofer pre-out) 200 mV/2.3 k-ohms (Zone line out)
Frequency response	
	10 Hz–100 kHz/±1 dB, -3 dB (Direct Mode)
Tone control	
	±10 dB, 20 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise ratio	
	106 dB (Line, IHF-A) 80 dB (Phono, IHF-A)
Speaker impedance	
	4 ohms–16 ohms

Video Section

Input sensitivity/output level and impedance	
Video	1.0 Vp–p/75 ohms (Component Y) 0.7 Vp–p/75 ohms (Component B/R) 1.0 Vp–p/75 ohms (Composite)

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 × H × D)	
	17 1/8" × 6 13/16" × 14 13/16" (435 × 173.5 × 379.5 mm)
Weight	20.7 lbs. (9.4 kg)

UPC CODE

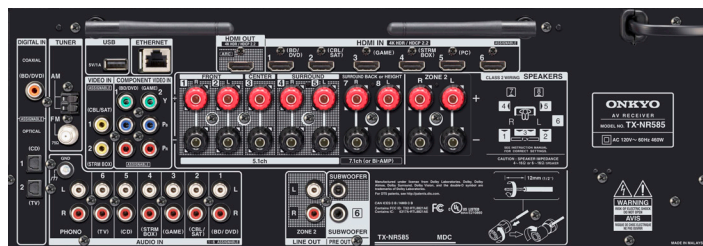
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CARTON

Dimensions (W × H × D)	
	21 1/4" × 10 1/4" × 17 1/16" (539 × 260 × 450 mm)
Weight	26.5 lbs. (12.0 kg)

Supplied Accessories

- Indoor FM antenna • AM loop antenna • Speaker setup microphone
- Quick Start Guide • Basic Manual • Remote controller
- AAA (R03) batteries x 2



Text on receiver may vary with region.

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