

TX-NR676E 7.2-Channel Network A/V Receiver

BLACK SILVER



Silken Power from an Amp with the Lot

Drive a full-scale surround system with effortless clarity. This thoroughbred A/V receiver streamlines access to app-based music, on-demand TV, games, and more. Linking your 4KTV and up to seven media players over HDMI®, the TX-NR676E processes all the popular Hi-Res and object-based audio codecs while Dynamic Audio Amplification boosts sound flawlessly for an adrenalin-pumping cinema experience. Future-focused, the receiver plays almost any audio accessible to your mobile or PC over dual-band Wi-Fi®, and comes with Chromecast built-in* and DTS Play-Fi®, which make mirroring music a one-tap operation. You can share network content, analog audio from your Blu-ray Disc player, turntable, and more to supported network multi-room speakers home over FireConnect™ powered by Blackfire. It's a receiver with the lot, and one of the best sounding amps available. * Future firmware update required.

HIGHLIGHTS

- Supports 5.2.2-Channel Dolby Atmos® and DTS:X™ Playback
- 165 W per Channel
- HDMI 7 In (1 Front¹) / Main Out, and Sub Out² Supporting 4K/60 Hz, HDR10, Dolby Vision™, BT.2020, and HDCP 2.2 Pass-through
- Dynamic Audio Amplification with 4-Ohm Speaker-driving Capability
- 384 kHz/32-bit DAC and VLSC™ Filtering for Superior Clarity
- Ready for Chromecast built-in³ and DTS Play-Fi⁴
- Dual-band Wi-Fi, AirPlay, Spotify®, TIDAL, Deezer, Pandora®, TuneIn⁴
- FireConnect™⁵ Wireless Multi-room Audio

ADVANCED FEATURES

- HDMI Terminals Supporting HDR10, Dolby Vision™, BT.2020, and 4K/60 Hz Pass-through and HDCP 2.2
- Supports 5.2.2-Channel Dolby Atmos Playback and Dolby Surround Upmixing
- DTS:X Object-based Audio Reproduction and DTS Neural:X™ 3D Upmixing
- Dolby Surround 3D Upmixing Solution for Multichannel Surround Formats
- AccuEQ Room Acoustic Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Intuitive Operation⁶
- Stable Dual-band 5 GHz/2.4 GHz Wi-Fi® Connectivity
- Features Chromecast built-in Wireless Audio Streaming Technology
- DTS Play-Fi Shares Music from Apps to Receiver and Wireless Speakers
- AirPlay Audio Streaming from iTunes and iPad, iPhone, and iPod touch
- Supports Hi-Res Audio Including DSD 5.6 MHz/2.8 MHz⁷, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD⁸

- Supports Spotify, TIDAL, TuneIn, Pandora, and Deezer Services
- FireConnect™ Multi-room Distribution of Network and Analog Audio Sources⁹ to Compatible Wireless Speakers
- Powered Zone 2 Speaker Outputs and Zone 2 Line Output with Dedicated DAC Supporting Digital¹⁰ and Analog Audio Playback
- Bluetooth® Wireless 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
- Supports for Front L/R Channel Bi-Amping in 5.2-Ch Speaker Layout
- 480i De-interlacing (480i to 480p) via HDMI for Legacy Video Formats

AMPLIFIER FEATURES

- 165 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- Dynamic Audio Amplification System Delivers Thrilling Stereo and Multichannel Performance
- High-current Power to Drive Large Speakers with 4-Ohm Resistance
- H.C.P.S. (High Current Power Supply) Transformer
- VLSC (Vector Linear Shaping Circuitry) High-frequency Noise Removal (Front L/R Channels)
- Non-Phase-Shift Amplification Circuitry for Clarity and Detail
- Discrete Output Stage Circuitry for Low Distortion

PROCESSING FEATURES

- Dolby Atmos and DTS:X Reproduction (5.2.2 Channels)
- HDMI Support for 4K/60 Hz, HDR10, 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 Circuit Technology for S/PDIF Audio
- 32-bit Digital Signal Processing
- DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Theater-Dimensional Virtual Surround Function
- Enjoy Pristine Reproduction of Audio-only Sources in Pure Audio Mode

- Direct Mode for Audio Reproduction Close to Original Source Quality
- Tone Controls (Bass/Treble) for Front L/R Channels

CONNECTION FEATURES

- 7 HDMI Inputs (1 Front) and 2 Outputs (1 Main Out, 1 Sub Out)
- Powered USB Port (5 V, 1 A) for Audio Playback
- 2 Composite Video Inputs
- 2 Component Video Inputs
- 3 Digital Audio Inputs (2 Optical and 1 Coaxial)
- 6 Analog Audio Inputs (6 Coaxial), 1 Stereo Analog Input (3.5 mm, Front)
- Phono Input (MM) and Equalizer for Turntable
- 2 Subwoofer Pre-Outs
- Headphone Jack (6.35 mm, Front)
- Speaker Posts with Screw Knobs
- Speaker Setup Mic Input (Front)

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 (OSD) via HDMI
- Quick Setup Guide via GUI and Easy Connection Diagram on Rear Panel
- Large Input Selector Buttons
- Economical HDMI Pass-through and Network Standby Functions
- IP Control via LAN for Home Automation Systems
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- Full-sized Simple Remote Control

*1 HDMI Front Input does not support 4K/60p/4:4:4/24-bit video, HDR10, Dolby Vision, or BT.2020. *2 HDMI Sub Out does not support ARC or CEC. *3 Requires a future firmware update. *4 Availability of services may vary with region. Please confirm before purchase. Subscription may also be required. Pandora is available in Australia and New Zealand only. *5 FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp. USA. Sampling rates of 44.1 kHz and 48 kHz are supported. *6 For iOS and Android™ devices. Please check App Store or Google Play™ for device and OS requirements. *7 DSD not supported over wireless LAN. *8 Dolby TrueHD playback via USB input only. *9 Sharing audio from external analog inputs depends on the model and is enabled with a future firmware update. *10 Audio via HDMI inputs excluded.

TX-NR676E 7.2-Channel Network A/V Receiver

Unlock Dolby Atmos® and DTS:X™ Playback

Object-based soundtracks allow independently mixed sound to play through any speaker in your system. Effects move all around as they do in real life, so you experience 5.2.2-channel Dolby Atmos or DTS:X formats as the director intended. DTS Neural:X™ identifies spatial effects in multichannel soundtracks and upmixes for 3D playback, while DTS:X offers independent dialog volume control for movies. Dolby Surround is also included to upmix legacy multichannel formats for playback in a Dolby Atmos-enabled environment.



Onkyo Controller Supports Next Generation Network Audio

Onkyo Controller app collects streaming services and network-attached audio into an intuitive interface. Control playback, navigate internet services, and distribute audio all over the home with ease.



Music Made Easy with Chromecast built-in*

Stream any music from your smartphone, laptop, or PC to the TX-NR676E 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 Chromebook™.



Stream Anything with DTS Play-Fi®

DTS Play-Fi is a wireless protocol that works with any audio app on mobiles and PC. Click whatever's playing to the receiver, even different sources to different components at the same time.



Wi-Fi®, AirPlay, Spotify®, and Bluetooth®

Selectable 5 GHz/2.4 GHz Wi-Fi assures stable connectivity so you can enjoy smooth streaming over AirPlay, the Spotify app, and the local network. Bluetooth wireless technology also provides quick and simple wireless streaming from your choice of music application.



Internet Radio and Streaming Services

TIDAL, Deezer, and TuneIn are baked into the GUI, making it easy to select from a huge range of music and radio programs using Onkyo Controller.



FireConnect™ Wireless Multi-room Audio

FireConnect™ mirrors network audio and external analog sources connected to a master component—from streaming services to vinyl records—on FireConnect™-compatible speakers in other rooms. Music selection, speaker grouping, and playback management across the home are built into Onkyo Controller app for iOS and Android™.



Note: Sharing audio from external inputs depends on the model and is enabled with a future firmware update. Sampling rates of 44.1 kHz and 48 kHz are supported. FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp., USA.

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

Six rear HDMI® inputs support pass-through of 4K HDR in both HDR10 and Dolby Vision™ formats; the BT.2020 4K Video Standard, 4K/60 Hz video playback; and HDCP 2.2 for premium content. Further, front HDMI is available for easy connection of a video camera or game console, while a rear Sub Output is ideal for connecting a projector.



Powerful Amplification for Dynamic Sound

High current power is proven by the ability to drive four-ohm speaker loads, which will severely test the strongest multichannel amplifier. Heaps of muscle means superior control for improved clarity and transient response, restoring energy to stereo and multichannel sound. Further, VLSC™ eliminates pulse-noise for optimal playback of high-quality stereo sources.

Graphical User Interface with Easy Setup

With your speakers and media players connected, plug in the AccuEQ mic and let the GUI guide you through initial setup, from speaker calibration (including AccuReflex phase correction for Dolby Atmos-enabled speakers) through to network connection. The refined interface makes control simple and enjoyable.

Powered Zone 2 and Zone 2 Lineouts

Powered Zone 2 speaker outputs let you send amplified network, S/PDIF, or analog audio sourced to a pair of speakers in another room. Line outputs can connect your home cinema sources to a separate hi-fi system. Manage playback using Onkyo Controller.

* Requires a future firmware update.

SPECIFICATIONS

Amplifier Section

| | |
|--|--|
| Power Output | |
| All Channels | 165 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) |
| Dynamic Power | 240 W (3 Ω, Front) 210 W (4 Ω, Front) 120 W (8 Ω, Front) |
| THD+N (Total Harmonic Distortion + Noise) | 0.08% (20 Hz–20 kHz, Half Power) |
| Damping Factor | Less than 54 (Front, 1 kHz, 8 Ω) |
| Input Sensitivity and Impedance | 200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono) |
| Rated RCA Output Level and Impedance | 1 V/470 Ω (Subwoofer Pre Out) 200 mV/23 kΩ (Zone Line Out) |
| Frequency Response | 10 Hz–100 kHz/±1 dB, -3 dB (Direct Mode) |
| Tone Control | ±10 dB, 90 Hz (Bass) ±10 dB, 7.5 kHz (Treble) |
| Signal-to-Noise Ratio | 106 dB (Line, IHF-A) 80 dB (Phono, IHF-A) |
| Speaker Impedance | 4 Ω–16 Ω |

Video Section

| | |
|---|--|
| Input Sensitivity/Output Level and Impedance | |
| Video | 1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite) |

Tuner Section

| | |
|-------------------------------|--|
| Tuning Frequency Range | |
| FM | 87.5 MHz–108 MHz |
| AM | 522 kHz–1,611 kHz 530 kHz–1,710 kHz |
| FM/AM Preset Memory | 40 Stations |

General

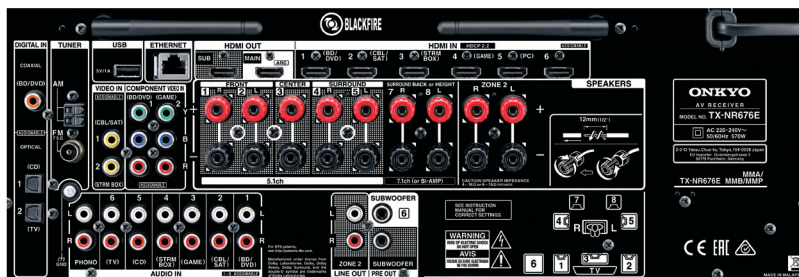
| | |
|-----------------------------------|-------------------------|
| Power Supply | AC 220–240 V~, 50/60 Hz |
| Power Consumption | 570 W |
| No-Sound Power Consumption | 60 W |
| Standby Power Consumption | 0.15 W |
| Dimensions (W x H x D) | 435 x 173.5 x 378 mm |
| Weight | 12.5 kg |

CARTON

| | |
|-------------------------------|--------------------|
| Dimensions (W x H x D) | 539 x 260 x 450 mm |
| Weight | 12.5 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 by region.

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. Dolby, Dolby Atmos, Dolby Surround, Dolby Vision, and the double-D symbol are trademarks of Dolby Laboratories. For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, DTS and the Symbol together, DTS:X, the DTS:X logo, Play-Fi, and the Play-Fi logo are registered trademarks or trademarks of DTS, Inc. © DTS, Inc. All Rights Reserved. The terms HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. iOS is a trademark upon which Cisco holds the trademark in the US and other countries. AirPlay, iPad, iPhone, iPod, iPod touch, iTunes, and Mac are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion or later, and PC with iTunes 10.2.2 or later; Android, Google Play, Chromebook and Chromecast are trademarks of Google Inc. Wi-Fi-Fi is a registered trademark of the Wi-Fi Alliance. The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance. Spotify and the Spotify logo are trademarks of the Spotify Group, registered in the U.S. and other countries. Products displaying the Hi-Res Audio logo conform to the Hi-Res Audio standard as defined by Japan Audio Society. The Hi-Res Audio logo is used under license from Japan Audio Society. FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp., USA. Onkyo Controller, Music Optimizer, Theater-Dimensional, VLSC, and AccuEQ are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.