HIGHLIGHTS

• THX® Certified Select™ theater reference sound
• Supports S.2.2-channel Dolby Atmos® and DTS:X® playback
• 2.1 W per channel

ADVANCED FEATURES

• High-grade AKM (AK4458) 384 kHz/32-bit multichannel DAC
• Dynamic Audio Amplification driving your surround system to THX Certified Select™ theater reference levels, you can enjoy
• AccuEQ Room Acoustic Calibration with AccuReflex phase alignment for Dolby Atmos-enabled speakers
• Powered Zone 2 speaker outputs and Zone 2 line-output with
• 1/4˝ (6.35 mm) headphone jack (front)
• 3-panel display dimmer (normal/dim/dimmer)

AMPLIFIER FEATURES

• 210 W/Ch (6 ohms, 1 kHz, 10% THD, 1 channel driven). 100 W/Ch (8 ohms, 20 Hz–20 kHz, 0.08% THD, 2 channels driven, FTC)

PROCESSING FEATURES

• Dolby Atmos and DTS:X reproduction (supports 5.2.2 channels)
• Dolby® TrueHD*7
• DTS:X® playback
• Supports HDR10, HLG, and the BT.2020 color standard. Now with cross-compatible 3D audio upmixing solutions from

CONNECTION FEATURES

• 2 HDMI inputs (1 front) and 2 outputs (1 Main Out, 1 Sub Out)
• Supports Wi-Fi®, DTS Play-Fi®, AirPlay, Amazon Music, Spotify®, TIDAL, Deezer, Pandora®, TuneIn®

OTHER FEATURES

• 480i de-interlacing (480i to 480p) via HDMI for legacy video formats

OTHER FEATURES

• 3-mode display dimmer (normal/dim/dimmer)
• Economical HDMI pass-through and Network Standby functions

OTHER FEATURES

• 210 W per channel
• HDMI® 7 in (1 front*1) / Main Out, and Sub Out*2

1. 384 kHz/32-bit DAC and VLSC™ filtering for
2. 210 W/Ch (6 ohms, 1 kHz, 10% THD, 1 channel driven). 100 W/Ch (8 ohms, 20 Hz–20 kHz, 0.08% THD, 2 channels driven, FTC)
3. High-current power drives large speakers with 4-ohm resistance
4. High-fidelity internal power supply with 4-ohm resistance
5. Non-phase-shift amplification circuitry for clarity and detail
6. Dynamic Audio Amplification delivers thrilling multichannel and stereo performance
7. High-current power drives large speakers with 4-ohm resistance
8. High-grade AKM (AK4458) 384 kHz/32-bit multichannel DAC

Mind-blowing entertainment every day of the week

With high-current Dynamic Audio Amplification driving your surround system to THX Certified Select™ theater reference levels, you can transport your audience to the heart of the movie. Dolby® formats and Dolby Atmos® soundtracks complement the latest in 4K HDR video via HDMI® pass-through supporting 4K/60p, Dolby Vision®, HDR10, and the BT.2020 color standard. Now with cross-compatible 3D audio upmixing solutions from Dolby Surround and DTS Neural:X®, you can enjoy regular multichannel movies with spatially immersive sound. Cast music from mobiles to the receiver and other compatible systems in your home over Chromecast built-in, DTS Play-Fi®, or FlareConnect™ wireless multi-room platforms. AirPlay and Bluetooth® technology are also on board. Enjoy built-in streaming services as well Hi-Res Audio via network and USB, all with the dynamic and emotional sound only an Onkyo can deliver.

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Dolby Atmos® and DTS:X® with upmixing solutions
Object-based audio lets sounds play independently through any speaker, moving all around your audience so they feel 5.2.2-ch Dolby Atmos or DTSX soundtracks with natural conviction. DTS Neural:X and Dolby Surround upmixing solutions find spatial cues in legacy multichannel soundtracks and upmix them for 3D audio playback through your object-centric speaker system. Both solutions offer cross-compatible support for common movie soundtracks, such as DTS Digital:X, 5.1, Dolby True-HD, and DTS-HD Master Audio®, so you can enjoy more immersive 3D sound from your TV or library as well as with supported video streaming services.

Onkyo Controller app for easy multi-room management
Onkyo Controller app collects streaming services and network-attached audio into one intuitive interface. Control playback, navigate internet services, and distribute audio all over the home with ease.

Chromecast built-in, now with the Google Assistant
Stream any music from your smartphone, laptop, or PC, to the TX-NR686 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 Chromecast built-in. If you have a speaker device featuring the Google Assistant, such as the Onkyo Smart Speaker G3, you can cue, play, and control music playback on your TX-NR686 by voice.

Ready for DTS Play-Fi® multi-room audio
DTS Play-Fi allows you to enjoy high-quality music from connected online services, networked media servers, and your device library over Wi-Fi® to any number of compatible products using the Onkyo Music Control App for iPad, iPhone, and Android smartphones/tablets. DTS Play-Fi can synchronize the music in every room. Each member of your family can use their own device to listen to their music in a room or group of rooms. DTS Play-Fi lets you structure a cohesive multi-room ecosystem that satisfies virtually any need. For more information, visit http://dtsplay-fi.com.

Wi-Fi, AirPlay, Spotify®, and Bluetooth®
Dual-band 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 technology also provides simple wireless streaming from music applications.

More streaming services and internet radio
Amazon Music, TIDAL, Deezer, Pandora®, and TuneIn are baked into the GUI, making it easy to select from music and radio programs with Onkyo Controller or Onkyo Music Control App.

FareConnect™ wireless multi-room audio
FareConnect 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: External audio input supporting FareConnect may differ depending on model. Please consult individual product specification for more information.

Graphical User Interface with Easy Setup
With speakers and media players connected, plug in the AccuEQ mic and let the receiver Gui guide you through 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 line-out
Powered Zone 2 speaker outputs let you send amplified audio sources, including network, SPDIF, and analog to a pair of speakers in another room. Line outputs can connect home theater sources to a separate hi-fi system. Manage playback distribution with Onkyo Controller.

HD10, LG: B, 2020
Give life to sound with Dynamic Audio Amplification
High-current power is proven by an ability to drive four-ohm speaker loads, which test the toughest multichannel amplifier. Heaps of muscle means superior control for fast dynamics and high energy. Non-phase-shift amps present a detailed and cohesive audio image, while VLSQ™ eliminates high-frequency distortion for ultimate clarity of sound.

Dynamic Power
0.08% THD, 2 Channels Driven, FTC)
Power Output
210 W (4 Ohms, Front)
Total Harmonic Distortion + Noise
0.08% (20 Hz–20 kHz, Half Power)
Dynamic Range
106 dB (Limited)
Signal-to-Noise Ratio
80 dB (Phono, IHF-A)
Input Sensitivity/Output Level and Impedance
3.5 mV/75 Ohms (Phones)
Input Impedance
2.3 k-Ohms
1.0 Vp–p/75 Ohms (Component Y)
Input Sensitivity/Output Level and Impedance
Speaker Impedance
0.7 Vp–p/75 Ohms (Component Y)
8 Ohms (Front)
Frequency Response
200 mV/2.3 k-Ohms (Component X)
10 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)
Rated RCA Output Level and Impedance
2.3 k-Ohms
6 dB (Phone, IHF-A)
3.5 mV/2.3 k-Ohms (Component Y)
0.08% THD, 2 Channels Driven, FTC)
Power Output
210 W (4 Ohms, Front)
Total Harmonic Distortion + Noise
0.08% (20 Hz–20 kHz, Half Power)
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