

TX-NR7100 9.2-Channel THX Certified Network A/V Receiver











































































A richer, better life in 8K Ultra HD

Turn your home into a living media sanctuary with 9.2-channel Dynamic Audio Amplification (DAA) supporting 3D surround-sound and powered multizone audio together with the SMART AV Receiver™ suite for effortless voice-controllable entertainment via a Google Assistant or Amazon Alexa enabled device. HDMI® supports 8K/60p and dynamic HDR (including HDRI0+ and Dolby Vision™) passthrough to compatible TVs, projectors, or gaming monitors connected via eARC-ready Main Out. Be overwhelmed by the hyper-realistic THX® Certified Select reference experience, and explore the master-quality IMAX® Enhanced film library. Unique functions such as Front-to-Height stereo switching for ambient background listening, DSP vocal/dialog enhancement, and practical GUI functions simplify everyday operation. Whether you're gaming, watching a favorite TV series, or streaming Hi-Res Audio, a richer emotional life awaits inside the Onkyo signature sound.

PRODUCT HIGHLIGHTS

VIDEO & AUDIO SUPPORT. Supports features defined in HDMI 2.1" specification including ADVANCED FEATURES. Supports Dirac Live Room

Correction

• 220 W/Ch THX® Certified Select DAA system

8K/60p(4:4:4/12-bit*10, 4:2:2/12-bit*10, 4:2:0/10-bit*11), 8K/30p(4:4:4/12-

Bluetooth wireless technology supports audio reception from mobile

 IMAX® Enhanced certified for immersive signature birbir 1910, 4:4:4/10-bir, 4:4:4/10-bir 1911, 4:2:2/12-bir, 4:2:2/12-bir 1911, 4:2:2/12-bir), 4:2:0/12-bir), 4:4:4/10-bir, 4:4:4/10-bir, 4:4:4/10-bir, 4:2:2/12-bir, 4:2:2/12-bir, 4:2:2/12-bir, 4:2:0/12-bir), 4:4:4/10-bir, 4:4/10-bir, 4:4/10 devices and PC. audio transmission to supported headphones (RX mode: SBC/AAC, TX mode: SBC/aptX/aptX HD)

sound by DTS:X®

VRR, ALLM, QFT (Quick Frame Transport), DSC (Display Stream

- . Advanced Music Optimizer™ improves compressed audio playback quality
- 5.2.4-ch/7.2.2-ch Dolby Atmos® and DTS:X playback Compression), QMS (Quick Media Switching), and eARC (Main Out);
- Supports Dirac Live® Room Correctionsupports HDR10+, Dolby Vision™
- ™ ... HDR IO. and HLG. and BT.2020
- Wake on Play standby for input-switching Bluetooth and Network with auto

- · AccuReflex phase-matching solution for Atmos-enabled
- color; DeepColor, x.v.Color®, LipSync, and HDCP 2.3
- · Dedicated Zone 2 D/A converter supports simultaneous playback of speakers

- Dolby Atmos, DTS:X, Dolby® TrueHD, and DTS-HD
- independent sources (HDMI/SPDIF/NET)
- SMART AV Receiver™ Works with Sonos^{*1}. Master Audio decoding • Zone 2 and Zone 3 speaker outputs enable 7.2-ch + Zone 2 /
- Chromecast built-in", AirPlay 2, and DTS Play-Fi®; includes Dolby Atmos Height Virtualizer 3D sound processing® \$ 5.2.2-ch + Zone 2 / 5.2-ch + Zone 2 + Zone 3 speaker connection Spotify®, Amazon Music HDP2, Pandora®, TIDAL, Deezer, • Dolby Surround and DTS Neural:X 3D upmixing technologies and switching 115
- and TuneIn streaming services*3
- - Hi-Res Audio playback via network and USB including DSD256. . Zone 2 line-out® (analog RCA) connects compatible audio systems for
- Works with Hey Google or Alexa⁴⁴ DSD128, DSD64 (DSDIFF/DSF) and 192 kHz/24-bit FLAC, ALAC, ⁴¹² independent D/A playback (HDMI/SPDIF/NET*s) WAV (RIFF), and AIFF
- Stream over 5 GHz/2.4 GHz dual-band Wi-Fi® supporting SACD (Super Audio CD) playback via HDMI Zone B line-outheadphone transmitters for synced playback with MAIN Zone® (analog RCA) connects compatible wireless *8 the 802.11ac standard*5 (2.8 MHz 2-ch/multichannel)
- HDMI inputs 1-3 and Main/Sub outpus support
 IMAX Enhanced certified for immersive signature sound by DTS:X
- · Vocal Enhancer boosts vocals/dialog audibility via remote control or front panel

8K/60p(4:2:0/10-bit), 8K/30p(4:4:4/10-bit), * THX* listening modes for movies, music, and games * Switch Front L/R speakers to Height 1/Height 2/Surround/Surround 4K/120p(4:4:4/10-bit) video pass through

- HDMI terminals support HDR10+, Dolby Vision and Theater-Dimensional virtual surround-sound function · Sound optimization for games (Rock, Sports, Action, and RPG)
- Back with Stereo Assign Mode $^{\mbox{\tiny 115}}$ for BGM listening
- BT.2020 color; VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode), and QFT (Quick Frame Transport)
- · Direct Mode and Pure Audio Mode
- · My Input Volume one-touch startup volume assignment to individual inputs
- passthrough; eARC (Main Out), and HDCP 2.3 High-definition GUI with overlaid OSD over HDMI NETWORK FEATURES • HDMI Sub/Zone 2 Out for media transmission to a • 4K to 8K, 1080p to 8K/4K upscaling and 480i to 480p deinterlacing second display
- SMART AV Receiver multi-room platform with integrated
- Send or receive audio via Bluetooth® wireless technology services, voice assistant support, and control via remote apps OSD function shows Audio, Video and Network information (RX mode: SBC/AAC, TX mode:
- SBC/Qualcomm® aptX"/ Fast quad-core SoC supports 802.11ac (2x2 MIMO) Wi-Fi FMIAM tuner with 40 random station memory presets aptX HD) Works with Sonos for the Sonos Home Sound System with Sonos app*13 • Crossover adjustment for each channel
- Refined chassis, HDMI board, DAC, Digital/Analog inputs, Works with Alexa supporting multi-room music" (40/50/60/70/80/90/100/120/150/180/200 Hz) power-amp grounds and power lines Works with Hey Google and Chromecast built-in • A/V Sync Control (up to 500 ms in 5 ms steps at 48 kHz*16)
- 5.2-ch Main + Powered Zone 2 + Powered Zone 3 Supports Apple AirPlay 2 enabling Siri voice control • Various standby modes and HDMI pass-through speakers support synced/independent D/A audio playback • DTS Play-Fi multi-room audio via Onkyo Music Control App*13 • 3-Mode display dimmer (Normal/Dim/Dimmer) (including HDMI/SPDIF/NET%) Control and manage multiroom playback with Onkyo Controller app*13 Optional rack-mounting kit (IRK-155-3D)
- Zone 2/Zone B line-out¹⁷ (analog RCA) supports synced or · Roon Tested certification for the Roon Core independent D/A playback® on compatible audio systems • IP Control for AVR setup via PC and integration into a home *1 Requires a Sonos Connect or Part (sold separately). Connection of 1-3 Sonos devices is or headphone docks automation system supported with volume control enabled via the Sonos app for iOS and Android¹⁰¹ devices. *2

AMPLIFIER FEATURES

- 220 W/Ch (6 ohms, I kHz, 10% THD, I channel driven), 100 W/Ch (8 ohms, 20 Hz-20 kHz, 0.08% THD, 2 channels driven, FTC)
- · Certified for IMAX Enhanced
- Onkyo Dynamic Audio Amplification (DAA)
- Discrete 2-stage non-phase-shift amplifier circuitry
- Custom High-Current Low-Noise Power Transformer

- Large custom-made audio-grade power capacitors
 Strengthened power-supply line supports high-current dynamics
 Refined chassis, HDMI board, DAC, Digital/Analog inputs, power-amp grounds and power lines
- Isolated network module reduces high-frequency signal interference on audio circuitry
- High current capability drives 4-ohm loads through 9 channels
 Precision 192 kHz/24-bit D/A conversion for Hi-Res Audio
- VLSC $^{\sim}$ (Vector Linear Shaping Circuitry) noise filtering (Front L/R)
- PLL (Phase Locked Loop) anti-jitter technology for SPDIF audio

- CONNECTION FEATURES
- 7 HDMI inputs (I front), 2 outputs (Main Out [eARC], Sub/Zone 2 Out)
- · I component video input (assignable)
- · 2 composite video inputs (assignable)
- 2 digital audio inputs (optical and coaxial, assignable)
- 6 analog RCA audio inputs (assignable)
- 1/8" (3.5 mm) mini-stereo analog input (front) I phono input with built-in MM phono equalizer
- $^{-1}/_{8}''$ (3.5 mm) mic input for room acoustic correction setup $^{-1}/_{4}''$ (6.35 mm) headphone jack
- 2 subwoofer pre-outs
- · Zone 2/Zone B analog RCA line-level out
- 9 banana-plug-ready speaker binding posts
 10BASE-T/100BASE-TX Ethernet terminal for network connection
- USB input (DC 5 V/I A) for audio playback (rear)
- RS-232C serial input and IR input for infrared repeaters • 12 V trigger output (Main, 100 mA, assignable)
- · AC inlet for detachable IEC power cord

Amazon Music HD is supported via DTS Play-Fi. *3 Streaming service availability may vary by region. An account and subscription may be required for some streaming services. *4 Voice control requires an Alexa built-in or Google Assistant-enabled device, vary by re-9 on. An account and subscription may be required for some streaming evary by re-9 on. An account and subscription will be re-9 on the respective that the depends on the respective technology and the country or region. "S Some countries or regions have regulations that affect wireless signal-strength and use of Wi-Fi channels. "8-6 Zone 3 supports analogy IRE1 monly. In Zone 2, IPDMI and SPDIF support 2-A PCM audo signals only, and HDMI audo is supported via HDMI apports 1-3. "Similarous playbock of multiple audio sources is enabled." Y Zone 2 mode, HDMI and sport 2-A PCM audo signals on the same analog RCA line-out terminal. "8 When set to Zone 2 mode, HDMI audo is ordical to minute 1-3." SPDIF and HDMI support 2-A PCM segres only, and similation or support and under sources is enabled. When set to Zone 2 mode, HDMI audo is overabled on imputs 1-3." SPDIF and HDMI support 2-A PCM segres only, and simultaneous playbock of multiple audio sources is enabled in MAIN and Zone 8. "9 Features defined in HDMI 2.1 specification, HDMI 1-6, Main Out, and subscribed 2-00 in Subscription 2 void in hubits 1-6. Main Out, and subscribed 2-00 in Subscription 2 void in hubits 1-6. "I Support compressions) signals only, "11 DS Signals only when input via HDMI inputs 1-6. "I Support sampling-rates may vary deepending on network environment. DS is converted to TeVM tops inploybock. ALAC is subported to a maximum 74 kHz." 13." Available free for iPhone and iPad at the Abb Store. Available free for Android devices

Avanuary pee for more and most act as App Souls. Avanuary feet put annuary even on Google Play. Please check device and OS requirements before installation. *14 Multi-room music may require o firmware update. *15 Speaker-switching capabilities depend on the speaker layout. *16 Max. 400 ms (5 ms steps) at 96 kHz, and max. 200 ms (5 ms steps) at 192 kHz.

Independent tone controls for all channels (excluding Zone 3)

TX-NR7100 9.2-Channel THX Certified Network A/V Receiver

THX® Certified Select theater-reference sound THX Certified Select guarantees the same reference volume of a commercial theater in rooms where the screen-to-seat distance is about 12 ft. (3.5 m). Certified receivers must pass 2,000 bench-tests in 75 categories.

Discover the IMAX® experience

IMAX® Enhanced uses DTS:X® technology optimized for the IMAX signature experience and reproduces the full dynamic range of IMAX theatrical mixes. IMAX Mode delivers IMAX Enhanced content IMAX

ENHANCED

as the filmmakers intended. IMAX Enhanced films are available to stream or own on Ultra HD Blu-

Welcome to the 8K Ultra HD experience

Features defined in HDMI® 2.1 specification enable 8K/60p video passthrough to your compatible display. As well as HDR10 and HLG, HDR10+ and Dolby Vision™ formats optimize brightness, contrast, and color scene-by-scene or frame-by-frame. All HDMI terminals support HDCP 2.3, while eARC on Main Out passes encoded multichannel audio (including Dolby Atmos® or DTS:X) from your compatible TV's tuner, video streaming apps, or connected media players to the AVR for amplification. QMS (Quick Media Switching) for movies and video eliminates the delay that can result in a blank screen before content is displayed. Note: Features defined in HDMI 2.1 specification, HDRIO+, and passthrough capabilities described are supported on HDMI inputs I–6, Main Out, and Sub/Zone 2 Out in Sub Mode output.

New enhancements for gamers

Transform your playtime with 3D surround-sound and gain the winning edge with new gamer-friendly features defined in HDMI 2.1. VRR (Variable Refresh Rate) eliminates lag, stutter, and frame-tearing for fluid gameplay, ALLM (Auto Low Latency Mode) optimizes latency from source to screen while QFT (Quick Frame Transport) limits lag for a smoother experience.

SMART AV Receiver™ multi-room audio streaming SMART AV Receiver shares audio around your home.

It includes Amazon Music HD* Pandora®, Spotify®, TIDAL, Deezer, and Tuneln, and works with Hey Google or Alexa. Share

AV RECEIVER entertainment via Works with Sonos, AirPlay 2, DTS Play-Fi®, and Chromecast built-

* Amazon Music HD is supported via DTS Play-Fi.

Works with Sonos

Expand your Sonos Home Sound System by pairing this AVR with up to three Sonos Connect or Port* devices. The receiver ties into the Sonos ecosystem, waking, changing inputs, and playing at the desired volume on command from

the Sonos app".

* Sonos Connect and Port sold separately. Sonos app available free for iPhone and iPad from the App Store, and for Android** devices on Google Play Store.

Chromecast built-in™ works with Hey Google

Stream music from your smartphone, laptop, or PC to the receiver via Chromecast built-in and control playback from Chromecast-enabled apps from iPhone, iPad, Android $^{\scriptscriptstyle{\mathsf{TM}}}$ phone or tablet, Mac or Windows® PC, or Chromebook™. Cue, play, and control audio on this and other supported devices just by using your voice.

Works with Alexa

Alexa lets you use your voice to control the A/V receiver by speaking commands through an Alexa device. Whether you want to listen to music, radio stations, or podcasts, all you have to do is ask. It also supports multi-room music* played on multiple devices.

lti-room music may require a firmware update

celebrate a new world of sound

Dolby Atmos and DTS:X translate 3D soundtracks from the studio mixing desk to your room. Sounds are no longer tied to specific channels, and are free to move around and above your audience, placing them at the heart of the action. The TX-NR7100 supports 5.2.4-ch and 7.2.2-ch speaker layouts. Enjoy 3D sound from any speaker layout

Dolby Atmos Height Virtualizer delivers 3D sound through any listener-level speaker layout. The technology works independently or with the Dolby Surround® upmixer to create a 3D sound-field.

Dirac Live® Room Correction

Dirac Live analyzes your audio system and listening environment by examining acoustic data measured by microphone and detecting deficiencies. It corrects bo the timing and amplitude aspects of sound coloration using a mixed-phase correction filter throughout the listening area, not just a particular zone. Dirac Live DIRAC automatically calibrates sound in your room using a smartphone or tablet $\ensuremath{^{^{\circ}}}$ application and setup mic. Dirac Live unlocks your loudspeakers' full potential in any listening space and delivers a uniquely pristine listening

Device must be connected to the internet and the same network as your AVR.

GHz/2.4 GHz dual-band Wi-Fi® supports the 802.1 lac standard*

A powerful quad-core SoC (System on a Chip) performs multiple processing tasks at once. It evolves network functions and supports the 802.11ac (2x2 MIMO) standard for stable multi-room audio streaming.

* Note: some countries or regions have regulations that affect wireless signal strength and the use of Wi-Fi channels.

Bi-directional Bluetooth® wireless technology

This AVR can send and receive audio via Bluetooth wireless technology. Stream from your device to the receiver using SBC or AAC codecs, or transmit audio playing through the AVR to compatible wireless headphones using SBC, aptX™. or aptX HD codecs including 24-bit audio over aptX HD. Note: supports MAIN Zone source transmission (excludes Chromecast built-in and Works with Alexa). Lossless 24-bit audio requires headphones supporting aptX HD.

Clearer dialog at the touch of a button

Vocal Enhancer solves the problem of inaudible dialog in movies and TV programs by using DSP algorithms to elevate vocal frequencies in the soundtrack. The effect level can be raised or lowered using keys on the remote control.

Three-Zone Whole Home Audio

Manage playback in up to three rooms using the Onkyo Controller app. This 9.2-ch AVR has a Zone 2 DAC supporting amplified D/A audio distribution (including HDMI, SPDIF, and NET) via Zone 2 and Zone 3 speaker posts, and supports layouts including 5.2.2-ch Main + Zone 2 or 5.2-ch + Zone 2 + Zone 3.

Note: Zone 3 supports analog/NET only. Zone 2 HDMI audio available on inputs 1-3. HDMI and SPDIF support 2-ch PCM audio signals only.

Multi-function Zone 2/Zone B line-out

Analog RCA line-out supports two Zone audio modes. Zone 2 supports active speaker or hi-fi system connection Sync a source in MAIN and Zone 2, or play two unique D/A sources simultaneously. Zone B suits wireless headphone docks. Enjoy MAIN Zone audio through your wireless headphones.

Note: in Zone 2 mode, HDMI audio is available on inputs I-3 and SPDIF and HDMI support 2-ch PCM signals only. In Zone B mode, encoded and 2-ch PCM audio support 2-ch PCM signals only. In Zone B mode, encode playback for all inputs is enabled in MAIN and Zone B.

Connections for custom installations

A 12 V trigger output syncs operation with an external component, such as a power amp, while IR input connects an IR repeater. Ethernet supports IP control for home automation and AVR configuration via PC browser. RS-232C control and OSD output are supported. Rack-mount kit is optionally available.

SPECIFICATIONS

Amplifier Section

Dynamic power

Power output (All channels)

220 W/Ch (6 ohms, I kHz, I0% THD,I-ch driven) 100 W/Ch (8 ohms, 20 Hz-20 kHz. 0.08% THD, 2-ch driven, FTC) 250 W (3 ohms, Front) 220 W (4 ohms, Front) 130 W (8 ohms, Fron

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 a id impedance ··I·V·rms/470 ohms (Subwoofer pre-out)·· 200 mV rms/470 ohms (Zone 2/Zone B line-out) ···

Video Section	1-10 OIIIII3	
Speaker impedance	4–16 ohms	
	80 dB (Phono, IHF-A)	
•	, ,	
Signal-to-noise ratio	106 dB (Line, IHF-A)	
	±10 dB, 20 kHz (Treble)	
i one cond of		
Tone control	±10 dB, 20 Hz (Bass)	
	-3 dB (Direct/Pure Audio)	
rrequericy response		
Frequency response	10 Hz-100 kHz/+1 dB.	

Input sensitivity/or	utput level and impedance
Video	1.0 Vp-p/75 ohms (Component Y)
	0.7 Vp-p/75 ohms (Component Pb/Pr)

1.0 Vp-p/75 ohms (Composite) Tuner Section Tuning frequency range -'FM''''' 87.5 MHz-107.9 AM 530 kHz-1,710 kHz FM/AM preset memory 40 stations

General ...AC.J20.V~..60.Hz.... Power consumption (operating) ...750 W Power consumption (idle) 75 W.

Power consumption (standby) Dimensions (W·x·H·x·D) · $17 \cdot 1/g^{\prime\prime} \cdot x \cdot 6 \cdot 10/1g^{\prime\prime} \cdot x \cdot 14 \cdot 16/1g^{\prime\prime} \cdot x$ (435 x 173.5 x 379.5 mm) 22.9 lbs. (10.4 kg)

UPC CODE889951003496.....

CARTON Dimensions (W x H x D) $21'' \times 10^{7/16}'' \times 18^{7/16}''$ (534 x 265 x 468 mm) 29.8 lbs. (13.5 kg)

Supplied Accessories Relax with Ste AA Stereo Assign Mo I, Height 2, Surn (depending on yo adri to background liste 0 Ps 🔘 0 0 0 0 Ps 🔘 🔘 2 r 💿 000000

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Text on receiver may vary with region.

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