



Wireless Access to Unlimited Entertainment

Wi-Fi for Network Audio Streaming New for 2013

Stream a wide range of high-resolution, lossless, and compressed audio files from smartphone, PC, and media server to your Wi-Fi-certified Onkyo network A/V receiver — no cables or adapters required. Our free remote app lets you browse and select online media sources (such as Spotify or TuneIn Radio), and streams the music stored on your smartphone, NAS, or PC to the receiver with no loss in quality. CERTIFIED

Bluetooth Technology Inside New for 2013

Enjoy the music stored on any Bluetooth-compatible device instantly - just pair up, choose a track, and hit play. The Bluetooth wireless streaming technology on board selected Onyko network A/V receivers makes casual listening easy



Add AirPlay with Optional Dock

You can also enable AirPlay by connecting the Onkyo DS-A5 AirPlay RI Dock to any A/V receiver. Stream audio and video to your home theater from iPhone and iPad, or use a PC equipped with iTunes to experience your digital music library in high fidelity. (See page 5 for more information.)



DS-A5



Celebrating 20 Years of THX® Theater-Reference Sound

Our partnership with THX guarantees you theater-reference volume in your listening space. With a THX-certified Onkyo receiver or home theater package, you can experience the movie exactly as its creators intended.





Optimized for 4K Ultra HD New for 2013

The latest Onkyo network A/V receivers can pass 4K Ultra HD video from media player through to a compatible display or projector via HDMI®. Selected models also feature Qdeo™ upscaling technology for flawless 1080p or 4K video playback of lower-resolution sources

High-Resolution Audio Decoding

Experience the latest in studio master-quality sound, with Dolby® TrueHD and DTS-HD Master Audio" decoding from Blu-ray Disc. Onkyo network AV receivers also support a variety of hi-res music formats streamed from NAS and PC, including **©dts**+nD □ DOLBY. 192 kHz/24-bit FLAC, ALAC, and Dolby® TrueHD

Remote Apps for iPhone and Android

The Onkyo Remote App puts a range of streaming and control options in the App Store palm of your hand. It allows you to stream tracks stored on your smartphone (as well as music from PC, NAS, and online service) while controlling the entertainment across your home.



Audyssey Equalization Solutions

The Audyssey MultEQ® XT32, MultEQ®, and 2EQ® room acoustic correction systems offered the surround sound to suit the shape of your listening space.

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More HDMI® Inputs and Outputs

Onkyo includes more HDMI inputs and outputs on its A/V receivers than most other brands, accommodating extra devices as your system grows. The second HDMI output on selected models offers 1080p content in Zone 2, while on other models it is designed Hami to connect both movie projector and TV.

Surround Sound Upmixing Solutions

Selected A/V receivers are bundled with class-leading audio upmixing technologies, including DTS Neo:X™, Audyssey DSX®, and Dolby® Pro Logic® IIz. These take stereo or 5.1 soundtracks and mix them for playback

through seven, nine, or eleven channels.



Whole-House Audio Distribution

Use the powered outputs on selected Onkyo A/V receivers to drive audio in up to three zones at once. Line outputs turn the receiver into a sophisticated pre-amp and network media streamer when connected to an existing hi-fi.

Connect Your Smartphone with MHL™

The designated HDMI/MHL charging port on selected network A/V receivers lets you watch HD video stored on smartphone, tablet, and other compatible devices with up to 7.1 channels of surround sound.

WRAT (Wide Range Amp Technology)

WRAT incorporates a low-negative-feedback circuit design to extract full spectrum dynamics from any recording, resulting in a distinctively musical sound. Closed ground-loop circuits and discrete output transistors tame distortion, while High Instantaneous Current Capability draws on a deep reservoir of power to effortlessly handle **WRAT** large dynamic gains.



Three-Stage Inverted Darlington Circuitry is a key enhancement to WRAT. Based on proven Darlington circuit topology, the exclusive inverted design is suited to high-energy applications where very low distortion is required.



Hassle-Free Video Switching

InstaPrevue[™] technology makes switching between gaming consoles, Blu-ray Disc player, and cable TV much easier, naming the source devices connected via HDMI and offering thumbnail previews of available content.



Phase-Matching Bass Boost New for 2013

PM Bass works to control the phase timing of different frequencies to preserve the natural clarity of the mid-range—allowing room for vocals and strings to while ensuring a powerful bass response at all volumes.

Hybrid Standby Saves Power

Hybrid Standby mode maintains HDMI and network connectivity while the receiver is powered down. This means you can watch TV and use your media players on $\,$ occasions when you don't require surround sound.



Putting Nine-Channel Entertainment Within Reach

BLACK SILVER

















- 230 W/Ch (6 Ω , I kHz, I Channel Driven, JEITA)
- THX® Select2 $^{\text{\tiny{M}}}$ Plus Certified for Theater-Reference Sound
- Built-in Wi-Fi Supports Streaming from Smartphone, NAS, PC, Internet Radio, and Online Streaming Services*
- Integrated Bluetooth Technology for Fast Audio Streaming
- \bullet Supports Onkyo Remote Streaming Apps for iPhone $^{\!*2}$ and
- Upmixing
- Audyssey MultEQ® XT32 Room Acoustic Correction
- 9 HDMI® Inputs (1 Front with MHL™/8 Rear), 2 Outputs for Multi-Zone HDTV
- Technology
- Three-Zone Powered Audio and 11.2 Multichannel Pre-Outs
- Three-Stage Inverted Darlington Circuitry for High Power and
- Digital Processing Crossover Network for Improved Bi-Amping Performance
- 3 xTI Burr-Brown 192 kHz/24-bit DACs







Power to Fulfill Your Home Theater Dreams

BLACK SILVER

TX-NR828









- 215 W/Ch (6 Ω. LkHz, LChannel Driven, IEITA)
- THX® Select2™ Plus Certified for Theater-Reference Sound
- Built-in Wi-Fi Supports Streaming from Smartphone, NAS, PC, Internet Radio, and Online Streaming Services*
- Integrated Bluetooth Technology for Fast Audio Streaming
- Supports Onkyo Remote Streaming Apps for iPhone *2 and Android *3
- 8 HDMI® Inputs (1 Front with MHL™/7 Rear) and 2 Outputs
- 4K Passthrough and 4K Video Upscaling with Qdeo™ Technology
 Audyssey DSX® and Dolby® Pro Logic® IIz Surround Upmixing
- Audyssey MultEQ® Room Acoustic Correction
- Three-Stage Inverted Darlington Circuitry for High Power and Low Distortion
- Powered Zone 2 and Zone 2/3 Line-Outs for Housewide Distributed Audio
- 7.2 Multichannel Pre-Outs to Integrate Outboard Amplifiers
- Aluminum Front Panel and Volume Control









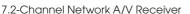
Real Theater Sound from Onkyo and THX®

BLACK SILVER

TX-NR727















- + 185 W/Ch (6 Ω , I kHz, I Channel Driven, JEITA)
- THX® Select2™ Plus Certified for Theater-Reference Sound
 Built-in Wi-Fi Supports Streaming from Smartphone, NAS, PC,
- Internet Radio, and Online Streaming Services*1
- Integrated Bluetooth Technology for Quick and Easy Audio Streaming
- Supports Onkyo Remote Streaming Apps for iPhone*2 and
- 8 HDMI[®] Inputs (I Front with MHL™/7 Rear) and 2 Outputs
- 4K Passthrough via HDMI and 4KVideo Upscaling with Qdeo" Technology
- Streamlined Video Switching with InstaPrevue™ Technology
 Audyssey DSX® and Dolby® Pro Logic® IIz Surround Upmixing
- Audyssey MultEQ® Room Acoustic Correction
- Three-Stage Inverted Darlington Circuitry for High Power and Low Distortion
- Powered Zone 2 and Zone 2/3 Line-Outs for Housewide Distributed Audio



































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A Potent Mix of Features and Performance

BLACK SILVER

TX-NR626

7.2-Channel Network A/V Receiver































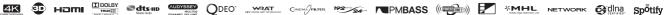








































Everything You Need in a Network Surround System

BLACK SILVER

TX-NR525

5.2-Channel Network A/V Receiver



































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Exhilarating Sound and Vision for Your Whole Home BLACK SILVER

TX-NR5010 9.2-Channel Network A/V Receiver







 $\bullet \ 280 \, \text{W/Ch} \ \bullet \ \text{Massive Toroidal Transformer}, \\ \text{Separate Transformers for AVV Processing} \ \bullet \ \text{Anti-Vibration}$ $Chassis, Separate \ Aluminum \ Side \ Panels, and \ Gold-Plated \ HDMI^0, Speaker \ Posts, and \ \widetilde{AVTerminals}$















Combining Processing Smarts with Onkyo Muscle

TX-NR3010 9.2-Channel Network A/V Receiver







• 250 W/Ch • THX® Ultra2™ Plus Certified for Theater-Reference Sound • Multiple Transformers for Amplification and A/V Processing • Isolated Power-Amp and Pre-Amp Block • 11.4 Multichannel Pre-Outs



Engineered for Ultimate Seven-Channel Performance

TX-NR1010 7.2-Channel Network A/V Receiver







• 250 W/Ch • THX® Ultra2™ Plus Certified for Theater-Reference Sound • Isolated Power-Amp and Pre Amp Block • HQV® Vida™ Video Processing, Qdeo™ 4K Upscaling Technology, and ISF Video Calibratio



Reveal the Full Potential of Your High-Res Media

PR-SC5509 9.2-Channel Network A/V Controller

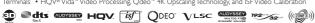




4K



 Anti-Vibration Chassis, Separate Aluminum Front/Side Panels, and Gold-Plated HDMI®, AV. and XLR Terminals • HQV® Vida™ Video Processing, Qdeo™ 4K Upscaling Technology, and ISF Video Calibration



Add Network Audio Options to the Home Theater Mix BLACK SILVER

TX-NR414 5.1-Channel Network A/V Receiver





 I 60 W/Ch
 Supports Streaming from Smartphone, NAS, PC, Internet Radio, and Online Streaming Services (Wireless Enabled with Optional UWF-I Adapter) • Streamlined Video Switching with InstaPrevue™ Technology • 6 HDMI® Inputs for Dolby® TrueHD, and DTS-HD Master Audio™ Decoding

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Your Ticket to Realistic Movies, Music, and Gaming BLACK SILVER

TX-SR313 5.1-Channel Home Theater Receiver









Satisfy Your Desire for Truly Epic Sound

PA-MC5501 9-Channel Amplifier









- 280 W/Ch THX® Ultra2™ Certified Massive Toroidal Transformer, Heavy-Duty Capacitors and Transistors
- Flat, High-Rigidity, Anti-Resonant Chassis Gold-Plated XLR Inputs and Speaker Posts

THX® Delivers an Authentic Movie Experience BLACK SILVER

BD-SP809 Blu-ray Disc Player







• THX® Certified for Theater-Reference Performance • 1080p Video Upscaling with Qdeo Technology • 2 x HDMI® Outputs for TV and Projector • Supports DivX® HD

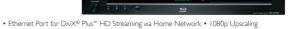


Vivid Blu-ray Playback with DivX® Streaming BLACK SILVER

BD-SP309 Blu-ray Disc Player







- 2 USB Ports for DivX® Plus™ HD Video (AVI and MKV) Decodes 3D Video, Dolby® TrueHD, and DTS-HD Master Audio™ Essential
- Hami Tuncin Sentential Sentential





Dock for iPod/iPhone/iPad with AirPlay



 Composite Video Output • Recharges iPod/iPhone/iPad • Auto Power On and Auto Selector Function When Connected to RI





UWF-1

Wireless LAN Adapter

- · Provides Wireless Link to Network-Capable Onkyo A/V Receivers and Stereo Receivers
- Connects Directly to Receiver USB • Direct Audio Streaming
- Playback via Wireless Router 2.4 GHz Wireless Transmission Freque



UBT-1

Bluetooth USB Adapter



USB 🔊 11n b/g

• 120 W/Ch (6 Ω , | kHz, | Channel Driven, JEITA) • 4 HDMI® Inputs and | Output • Dolby® TrueHD and DTS-HD Master Audio® Decoding • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry

SKF-558 Full-Range Bass Reflex Front Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg
SKC-391 Full-Range Bass Reflex Center Speaker • WHD: 240 x 102 x 121 mm • 1.3 kg
(SKC-391 Full-Range Bass Reflex Center Speaker • WHD: 240 x 102 x 121 mm • 0.8 kg)
SKR-558 Full-Range Bass Reflex Surround Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg
SKW-558 Bass Reflex Powered Subwoofer • WHD: 211 x 425 x 391 mm • 6.1 kg

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• Overlaid On-Screen Display (OSD) via HDMI • WHD: 435 x 150 x 318 mm • 7.8 kg



HT-S5600 7.1-Channel Home Theater Receiver/Speaker Package



HT-R592 7.1-Channel Home Theater Receiver

On-Screen Display via HDMI • Direct Digital Connection of iPod/iPhone via USB • Powered Zone 2 and Line-Out for Multi-Room Audio • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry • WHD: 435 × 150 × 328 mm • 8.6 kg

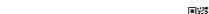
HTP-591 7.1-Channel Home Theater Speaker System

SKF-591 2-Way Bass Reflex Front Speakers • WHD: 155 x 378 x 169 mm • 2.6 kg SKC-591 2-Way Bass Reflex Center Speaker • WHD: 420 x 115 x 119 mm • 2.4 kg • WHD: I15 x 230 x 96 mm • 1.0 kg

SKW-591 Bass Reflex Powered Subwoofer • WHD: 317.5 x 468 x 398 mm • 9.1 kg



HT-S9405THX 5.1-Channel Network A/V Receiver/Speaker Package





HT-R558 5.1-Channel Home Theater Receiver

HTP-558 5.1-Channel Home Theater Speaker System





HT-R990 7.1-Channel Network A/V Receiver

• 130 W/Ch (6 Ω , 1 kHz, 1% THD, 1 Channel Driven, IEC) • THX® I/S Plus Certified • 4 HDMI® Inputs and I Output • HDMI Video Upscaling to 4K with Qdeo™ Technology • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • Compatible with UWF-I Wireless LAN Adapter • Internet Radio and Music Streaming Service Connectivity* I • Supports Onkyo Remote Apps*2

 Dolby® Pro Logic® IIz for Expanded Surround Channels
 Universal Port for Single-Cable Connection of Onkyo Peripheral Devices • WHD: 435 x 173.5 x 328 mm • 9.3 kg

HTP-948 5.1-Channel Home Theater Speaker System

SKF-980 2-Way Acoustic-Suspension Front Speakers • WHD: 158 x 433 x 199 mm • 5.3 kg SKC-980 2-Way Acoustic-Suspension Center Speaker • WHD: 433 x 158 x 199 mm • 5.3 kg SKR-980 2-Way Acoustic-Suspension Surround Speakers • WHD: 200 x 275 x 169 mm • 3.5 kg SKW-938 Acoustic-Suspension Powered Subwoofer • WHD: 380 x 444 x 429 mm • 15.5 kg





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HT-S3505 5.1-Channel Home Theater Receiver/Speaker Package





HT-R358 5.1-Channel Home Theater Receiver

 100 W/Ch (6 Ω, I kHz, 1%THD, I Channel Driven, IEC)
 4 HDMI® Inputs and I Output
 Dolby® TrueHD and DTS-HD Master Audio™ Decoding
 Universal Port for Onkyo Peripheral Devices
 WRAT (Wide Range Amplifier Technology)
 Overlaid On-Screen Display (OSD) via HDMI
 Super EX.Bass for Deeper, More Dynamic Bass • WHD: 435 x 150 x 318 mm • 7.6 kg

HTP-358 5.1-Channel Home Theater Speaker System

SKF-558 Full-Range Bass Reflex Front Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg SKC-391 Full-Range Bass Reflex Center Speaker • WHD: 240 x 102 x 121 mm • 0.8 kg SKR-558 Full-Range Bass Reflex Surround Speakers • WHD: 101 x 175 x 116 mm • 0.7 kg SKW-358 Bass Reflex Subwoofer • WHD: 211 x 425 x 381 mm • 5.5 kg



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HT-S9400THX 7.1-Channel Network A/V Receiver/Speaker Package



HT-R990 7.1-Channel Network A/V Receiver

• 125 W/Ch (6 Ω , I kHz, I Channel Driven, JEITA) • THX® I/S Plus Certified • 4 HDMI® Inputs and | Output + HDMIVideo Upscaling to 4K with Qdeo* Technology • Direct Digital Connection of iPod/ iPhone via Front-Panel USB Port • Compatible with UWF-I Wireless LAN Adapter • Internet Radio and Music Streaming Service Connectivity*! • Supports Onkyo Remote Apps**2 • Dolby* Pro Logic* Ilz for Expanded Surround Channels • Universal Port for Single-Cable Connection of Onkyo Peripheral Devices • WHD: 435 x 173.5 x 328 mm • 9.3 kg

HTP-990 7.1-Channel Home Theater Speaker System

SKF-980 2-Way Acoustic-Suspension Front Speakers • WHD: 158 x 433 x 199 mm • 5.3 kg SKC-980 2-Way Acoustic-Suspension Center Speaker • WHD: 433 × 158 × 199 mm • 5.3 kg SKR-980/SKB-980 2-Way Acoustic-Suspension Surround/Surround Back Speakers • WHD: 200 x 275 x 169 mm • 3.5 kg

SKW-980 Acoustic-Suspension Powered Subwoofer • WHD: 380 x 444 x 429 mm • 15.5 kg



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HT-S3500 5.1-Channel Home Theater Receiver/Speaker Package



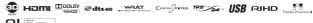


HT-R391 5.1-Channel Home Theater Receiver

• 120 W/Ch (6 Ω, I kHz, I Channel Driven, JEITA) • 4 HDMI® Inputs and I Output • Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Direct Digital Connection of iPod/iPhone via Front-Panel USB Port • WRAT (Wide Range Amplifier Technology) • Overlaid On-Screen Display (OSD) via HDMI • Super EX.Bass for Deeper, More Dynamic Bass • WHD: 435 x 150 x 318 mm • 7.8 kg

HTP-391 5.1-Channel Home Theater Speaker System

SKF-391 Full-Range Bass Reflex Front Speakers • WHD: 101 x 200 x 114 mm • 0.7 kg
SKC-391C Full-Range Acoustic Suspension Center Speaker • WHD: 240 x 102 x 121 mm • 1.3 kg
SKR-391 Full-Range Bass Reflex Surround Speakers • WHD: 101 x 200 x 114 mm • 0.7 kg
SKW-391 Bass Reflex Subwoofer • WHD: 295 x 345 x 368 mm • 6.4 kg



Smart System for HDTV Creates a Sonic Panorama

BLACK WHITE

LS3100 Living Speaker System

LAP-301 2.1-Channel Control Center

 $\bullet \ \, \text{System Control via TV Remote (Auto Power On/Off,Volume)} \quad \bullet \ \, \text{Room-Filling Sound with SRS Technology} \quad \bullet \ \, \text{Bluetooth}$ Technology for Wireless Streaming • 2 Digital Audio Inputs • Vocal Mode • WHD: $187 \times 32 \times 120 \text{ mm}$ • 0.3 kg

SLM-301 Full-Range Acoustic-Suspension Speakers

- 6.5 cm Cones x 2 Detachable Stands for Greater Mounting Flexibility Wall Mountable
- WHD:169 \times 78 \times 108 mm (Horizontal), 169 \times 111 \times 133 mm (Horizontal, with Stand) 0.7 kg

SLW-301 Wireless Subwoofer

- Powered Bass Reflex Design 16 cm Cone Max, Output Power: 50 W
- WHD:261 × 337 × 269 mm 5.8 kg

SISO SISO MIROLEY () Bluetooth







Show You're Serious About Sound Quality

ES-HF300 On-Ear Headphones

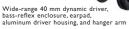


















Hear What You've Been Missing

RED VIOLET WHITE

ES-FC300 On-Ear Headphones







Envision Cinema

Journey Deeper into the Mix

IE-HF300 In-Ear Headphones









IE-FC300 In-Ear Headphones

Where High Performance and Mobility Meet





- Large 14.3 mm Drivers for Clear, Full-Spectrum Sound Detachable Copper Cable • 1.2 m One-Piece Cable Ideal Length for Travel • Gold-Plated MMCX and Mini-Stereo Connectors
- Comfortable In-Ear Headphone Sleeves for a Secure Fit



Wide-range 14.3 mm dynamic driver, bass-reflex enclosure, earpad, aluminum/ ABS hybrid hanger, and MMCX cable connector









Copper-Core Cable

ES-HF300 IE-HF300











Deep, Well-Controlle

Bass Performance





Rugged

Construction







Dock and Charge iPhone 5 for Deep, Detailed, and Dynamic Sound



CS-255 CD Hi-Fi Mini System

New for 2013



CR-255 CD Receiver

Lightning Charging Dock for iPhone 5/iPod touch (5G)/iPod nano (7G) • 15 W/Ch (6 Ω , 1 kHz, 2 Channels Driven, IEC) • Front-Loading CD/CD-R/CD-RW Player (MP3 CD Compatible) • USB Port Connects Legacy iPhone Models, Flash-Memory Devices • FM Tuner with 30 Presets • Digital Amp Circuitry for Clearer Playback • Super Bass Function

D-T05 2-Way Bass Reflex Speakers

• Rich, Clear, Well-Separated Stereo Sound • 10 cm Cone Woofer and 2.0 cm Balanced-Dome Tweeter • Magnetically Shielded • Stylish Color-Matched Cabinet

















FEATURES

A/V RECEIVERS	TX-NR5010	PR-SC5509	TX-NR3010	TX-NRI010	TX-NR929	TX-NR828	TX-NR727	TX-NR626	TX-NR525	TX-NR414	TX-SR313
Channels	9.2	9.2	9.2	7.2	9.2	7.2	7.2	7.2	5.2	5.1	5.1
THX® CERTIFIED	THX ULTRA2 PLUS	THX ULTRA2 PLUS	THX ULTRA2 PLUS	THX ULTRA2 PLUS	THX SELECT2 PLUS	THX SELECT2 PLUS	THX SELECT2 PLUS				
SURROUND SOUND EXPANSION	DTS NEO:X, AUDYSSEY DSX, DOLBY PRO LOGIC IIZ	AUDYSSEY DSX, DOLBY PRO LOGIC IIZ	AUDYSSEY DSX, DOLBY PRO LOGIC IIZ	DOLBY PRO LOGIC IIZ							
AUDYSSEY ROOM CALIBRATION	MULTEQ XT32	MultEQ	MULTEQ	MULTEQ	MULTEQ						
NETWORK CONNECTIVITY	✓	✓	✓	✓	✓	✓	/	✓	/	✓	
WIRELESS NETWORKING	WITH UWF-1	WITH UWF-1	WITH UWF-1	WITH UWF-1	Built-in	Built-in	Built-in	Built-in	WITH UWF-1	WITH UWF-1	
BLUETOOTH STREAMING	WITH UBT-1		WITH UBT-1	WITH UBT-1	Built-in	Built-in	Built-in	Built-in	WITH UBT-1	WITH UBT-1	
HDMI® INPUTS/OUTPUTS	8+1/2	7+1/2	8+1/2	8+1/2	8+1/2	7+1/2	7+1/2	6/2	6/1	6/1	4/1
4K VIDEO UPSCALING	✓	✓	✓	✓	✓	✓	/	✓			
4K VIDEO PASSTHROUGH					✓	✓	/	✓	/		
VIDEO PROCESSING	HQV, QDEO	HQV, QDEO	HQV, QDEO	HQV, QDEO	QDEO	QDEO	QDEO	QDEO			
MULTI-ZONE AUDIO	Powered Zone 2/3, Zone 2/3 Line Outs	ZONE 2/3 LINE OUTS	Powered Zone 2/3, Zone 2/3 Line Outs	Powered Zone 2/3, Zone 2/3 Line Outs	POWERED ZONE 2/3, ZONE 2/3 LINE OUTS	POWERED ZONE 2, ZONE 2/3 LINE OUTS	Powered Zone 2, Zone 2/3 Line Outs	Powered Zone 2, Zone 2 Line Out	ZONE 2 LINE OUT	ZONE 2 LINE OUT	
MULTI-ZONE VIDEO	ZONE 2		Zone 2	ZONE 2	ZONE 2						
USB Ports	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	2 (FRONT/REAR)	1 (FRONT)	1 (FRONT)	1 (FRONT)	1 (FRONT)	2 (FRONT/REAR)	1 (FRONT)	1 (FRONT)
InstaPrevue™	✓		✓	1	1	1	/	/	/	✓	
MHL™	/		/	1	/	/	/	/			
Hybrid Standby	✓		✓	✓	✓	✓	/	✓	✓	✓	

SPECIFICATIONS

OPECIFICATIO	143										
Amplifier Section											
Power Output All Channels (except for subwoofers)	280 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 220 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	-	250 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 200 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	250 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 200 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	230 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 185 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	215 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 180 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	185 W/Ch (6 Ω , 1 kHz, 1 Channel Driven, JEITA) 170 W/Ch (6 Ω , 1 kHz, 1%, 1 Channel Driven, IEC)	175 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 160 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 130 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	160 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 130 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	120 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA) 100 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)
Dynamic Power	400 W (3 Ω, Front) 300 W (4 Ω, Front) 180 W (8 Ω, Front)	_	320 W (3 Ω, Front) 270 W (4 Ω, Front) 160 W (8 Ω, Front)	320 W (3 Ω, Front) 270 W (4 Ω, Front) 160 W (8 Ω, Front)	300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)	300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)	250 W (3 Ω, Front) 220 W (4 Ω, Front) 130 W (8 Ω, Front)	240 W (3 Ω, Front) 210 W (4 Ω, Front) 120 W (8 Ω, Front)	180 W (3 Ω, Front) 160 W (4 Ω, Front) 100 W (8 Ω, Front)	180 W (3 Ω, Front) 160 W (4 Ω, Front) 100 W (8 Ω, Front)	160 W (3 Ω, Front) 125 W (4 Ω, Front) 85 W (8 Ω, Front)
THD (Total Harmonic Distortion + Noise)	0.05% (20 Hz–20 kHz, Rated Power)	0.05% (20 Hz-20 kHz, Rated Power)	0.05% (20 Hz–20 kHz, Rated Power)	0.05% (20 Hz–20 kHz, Rated Power)	0.08% (20 Hz–20 kHz, Rated Power)	0.08% (20 Hz–20 kHz, Rated Power)	0.08% (20 Hz–20 kHz, Rated Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)
Damping Factor	60 (Front, 1 kHz, 8 Ω)	_	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 k Ω (Line) 2.5 mV/47 k Ω (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)	200 mV/47 kΩ (Line)
Rated RCA Output Level and Impedance	1 V/470 Ω (Pre Out)	1 V/470 Ω (Pre Out)	1 V/470 Ω (Pre Out)	1 V/470 Ω (Pre Out)	200 mV/470 Ω (Pre Out)	200 mV/470 Ω (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)	200 mV/2.2 kΩ (Line Out)
Maximum RCA Output Level and Impedance	5.5 V/470 Ω (Pre Out)	5.5 V/470 Ω (Pre Out)	5.5 V/470 Ω (Pre Out)	5.5 V/470 Ω (Pre Out)	4.6 V/470 Ω (Line Out)	4.6 V/470 Ω (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)	2.0 V/2.2 kΩ (Line Out)
Phono Overload	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	_	_	_
Frequency Response	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (Direct Mode)	5 Hz-100 kHz/ +1 dB, -3 dB (DSP Bypass)	5 Hz-100 kHz/ +1 dB, -3 dB (DSP Bypass)	5 Hz-100 kHz/ +1 dB, -3 dB (DSP Bypass)
Tone Control Bass Treble	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 30 Hz ±10 dB, 20 kHz	±10 dB, 30 Hz ±10 dB, 20 kHz	±10 dB, 30 Hz ±10 dB, 20 kHz	±10 dB, 30 Hz ±10 dB, 20 kHz	±10 dB, 20 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz	±10 dB, 50 Hz ±10 dB, 20 kHz
Signal-to-Noise Ratio	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	100 dB (Line, IHF-A)	100 dB (Line, IHF-A)	100 dB (Line, IHF-A)
Speaker Impedance	4 Ω–16 Ω or 6 Ω–16 Ω	_	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	4 Ω–16 Ω or 6 Ω–16 Ω	6 Ω–16 Ω	6 Ω–16 Ω	6 Ω–16 Ω
Video Section											
Input Sensitivity/Output Level and Impedance	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75 } \Omega \\ \text{(Component PB/CB,} \\ \text{PR/CB)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component and } \\ \text{S-Video Y)} \\ \text{0.7 Vp-p/75 } \Omega \\ \text{(Component Ps/Cs, } \\ \text{Ps/Cs)} \\ \text{0.28 Vp-p/75 } \Omega \\ \text{(S-Video C)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75 } \Omega \\ \text{(Component PB/CB,} \\ \text{PR/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75 } \Omega \\ \text{(Component PB/CB,} \\ \text{PB/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component } \Omega \\ \text{0.7 Vp-p/75 } \Omega \\ \text{(Component PB/CB,} \\ \text{PB/CB,} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75} \Omega \\ \text{(Component PB/CB,} \\ \text{PB/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75} \Omega \\ \text{(Component PB/CB,} \\ \text{PB/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75} \Omega \\ \text{(Component PB/CB,} \\ \text{PR/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component Y)} \\ \text{0.7 Vp-p/75} \Omega \\ \text{(Component PB/CB,} \\ \text{PR/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	$\begin{array}{c} \text{1.0 Vp-p/75 } \Omega \\ \text{(Component)} \\ \text{0.7 Vp-p/75} \Omega \\ \text{(Component Pe/CB,} \\ \text{Ps/CR)} \\ \text{1.0 Vp-p/75 } \Omega \\ \text{(Composite)} \end{array}$	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75Ω (Component PB/CB, PR/CR) 1.0 Vp-p/75 Ω (Composite)
Component Video Frequency Response	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)	5 Hz-100 MHz (+0 dB, -3 dB)
Tuner Section											
Tuning Frequency Range FM AM	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz	87.5 MHz-108 MHz 522 kHz-1,611 kHz
Preset Memory	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations
General											
Power Supply	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz	AC 220-240 V, 50/60 Hz
Power Consumption	1,160 W	110 W	1,010 W	850 W	870 W	720 W	690 W	600 W	420 W	450 W	340 W
Dimensions (W x H x D)	435 x 198.5 x 463.5 mm	435 x 198.5 x 453.5 mm	435 x 198.5 x 463.5 mm	435 x 198.5 x 463.5 mm	(260.3 mm antennas up)	(435 x 173.5 x 328 mm	435 x 173.5 x 328 mm	435 x 173.5 x 328 mm	435 x 150 x 318 mm
Weight	25.0 kg	14.0 kg	25.0 kg	23.0 kg	18.5 kg	15.0 kg	11.2 kg	10.0 kg	9.0 kg	9.4 kg	7.6 kg

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