

# PR-SC5530 11.2-Channel Network A/V Controller

BLACK



## Revealing the Soul of High-Resolution Entertainment

Bringing next-generation audio and video processing together with flagship connectivity and audiophile build quality, the PR-SC5530 represents the ultimate in A/V separates technology. This THX® Ultra2™ Plus-certified controller supports Ultra HD video at 60 Hz with HDCP 2.2 via HDMI®, with Qdeo™ 4K upscaling technology and ISF video calibration ensuring the absolute best picture quality possible, even from low-resolution sources. A massive toroidal transformer with separate EI transformers for A/V processing, seven discrete 32-bit TI Burr-Brown DACs, and two 32-bit DSP engines support hi-res audio streaming via Wi-Fi® and the new Dolby Atmos® format for unbelievably realistic multi-dimensional surround-sound. Your choice of balanced or unbalanced 11.4-channel pre-outs—along with Zone 2/3 audio and HDMI Zone 2 out—allow you to build the home cinema of your dreams, be it a Dolby Atmos-ready 7.2.4-channel theater complete with in-ceiling speakers or an app-controllable multi-zone A/V system. Married to a multichannel amp (or amplifier combo) and speakers of appropriate quality, the PR-SC5530 is ready to unlock the hidden potential of your movie, music, and gaming entertainment.

### ADVANCED FEATURES

- Supports Dolby Atmos® Format for Exhilarating Multiplex Surround-Sound
- THX® Ultra2™ Plus Certified for Cinema-Reference Audio Quality
- ISF (Imaging Science Foundation) Video Calibration for Optimal Video Performance
- DTS Neo:X™ Upmixing and Surround Modes
- Massive Toroidal Transformer and Two Separate Transformers for Audio and Video Processing
- Separate Processing Block Construction
- 11.4-Channel Balanced XLR Pre-Outs, Audio-Grade 18 mm-pitch RCA Pre-Outs (Front L/R), and 11.4 Multichannel Pre-Outs
- 4K/60 Hz-Capable HDMI® Terminals for Ultra HD Entertainment
- Supports HDCP 2.2<sup>1</sup> Copy Protection for Future 4K Streaming, Broadcasting, and Premium Studio Content
- 3 x HDMI Outputs Including Zone 2 HDMI for HD Video in a Second Room
- Built-in Wi-Fi®-Certified Wireless LAN and Bluetooth Version 2.1 + EDR with Advanced Music Optimizer to Enhance Low-Quality Digital Music
- Internet Radio and Music Streaming Subscription Services Included (TuneIn Radio, Pandora®, Spotify, AUPEO!, and Deezer)<sup>2</sup>
- Play MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, Apple Lossless, DSD 5.6 MHz, LPCM<sup>3</sup>, and Dolby® TrueHD via Local Network
- Control and Stream with Free Onkyo Remote Streaming Apps for iPod touch/iPhone<sup>4</sup> and Android Devices<sup>5</sup>
- HDMI Video Upscaling to 4K with Qdeo™ Processing Technology by Marvell

- AccuEQ Room Calibration with Mic for Clear and Balanced Sound

- Zone 2/3 Pre/Line-Outs for Distributed Audio Playback

\*1 HDCP 2.2 is supported on HDMI Input 3 and Main Out only. \*2 Availability of services depends on region. Some services may require a paid subscription and firmware update. Availability of third-party services advertised here is accurate at the time of publication, but may be subject to change without notice. \*3 LPCM is supported via DLNA only. \*4 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. \*5 Requires Android OS 2.1 or later.

### PROCESSING FEATURES

- HDMI for 4K/60 Hz Video, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby Atmos®, Dolby TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- 7 x TI Burr-Brown 192 kHz/32-bit Two-Channel D/A Converters
- Dual 32-bit Digital Signal Processing Engines
- Whole House Mode for Synchronized Housewide Audio
- PM Bass for Deep Bass and Clear Mid-Range
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG

### CONNECTION FEATURES

- 8 HDMI Inputs (1 Front/7 Rear) and 3 Outputs
- Frontside HDMI/MHL™ for 1080p Video and Stills from Smartphone and Tablet
- USB Port (Front) for Mass Storage Class USB Memory Audio Playback Capability
- Component Video Switching (2 Inputs and 1 Output)
- 4 Composite Video Inputs (1 Front/3 Rear) and 2 Outputs (Including Zone 2)
- 6 Digital Audio Inputs (3 Optical and 3 Coaxial)
- 7 Analog Audio Inputs (1 Front/6 Rear)

- Phono Input (MM) for Turntable Connection
- 4 Parallel Subwoofer Pre-Outs
- VGA Input (D-Sub, 15-pin), RS-232 Port, IR (2 Inputs/1 Output), and 12V Triggers (3 Outputs)

### OTHER FEATURES

- Overlaid HD Input Source Preview with InstaPrevue™ Technology
- On-Screen Display (OSD) Overlaid via HDMI with Quick Set-Up and Home Menu
- Hybrid Standby with HDMI Passthrough and Network Connectivity
- Compliant with Smart Grid
- Independent Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 800 ms at 48 kHz)
- Tone Control (Bass/Treble) for All Channels (Except Zone 2/3)
- RDS (PS/RT/PTY/TP) (European Model only)
- RIHD (Remote Interactive Over HDMI) for System Control
- Aluminum Front Panel and Volume Control Knob
- Compatible with RI Dock for iPod/iPhone and AirPlay (DS-A5)
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control

# PR-SC5530 11.2-Channel Network A/V Controller

## Dolby Atmos® Multidimensional Sound

Onkyo is among the first to introduce the exciting Dolby Atmos surround-sound format to home cinema environments. Dolby Atmos uses object-oriented mixing to layer independent audio elements through discrete channels, moving three-dimensional sound effects around the theater with astonishing realism. The format adapts to any home cinema layout incorporating height channels for a more enveloping soundfield with extremely accurate directional and overhead effects.

## THX® Ultra2™ Plus for Reference-Level Sound

THX certification guarantees the same high-volume sound you experience in a multiplex cinema. Your PR-SC5530 processor has passed more than 2,000 laboratory tests to ensure every aspect of audio performance meets rigorous standards for cinema-reference sound. THX Ultra2 Plus is recommended for screen-to-seat viewing distances greater than four meters and for room volumes 85 cubic meters or greater.

## Engineered for Audio-Video Perfection

Cutting-edge audio-video processing and handcrafted construction combine to deliver a vivid and immersive entertainment experience. At the heart of the PR-SC5530 is a massive customized toroidal transformer supported by two separate EI transformers for A/V processing, which is controlled by dual 32-bit DSP engines. Digital-to-analog audio conversion comes courtesy of seven discrete 32-bit Burr-Brown DACs. From source device to output, audio and video signals are kept clean and clear for optimal performance.

## Latest HDMI® for 4K/60 Hz Video and HDCP 2.2

All HDMI terminals feature the latest specification supporting 4K video at 60 frames per second and 21:9 cinema aspect. Now you can add enveloping 11.2-channel surround-sound to next-generation Ultra HD games and video for a breathtaking entertainment experience. The PR-SC5530 also supports HDCP 2.2 DRM copy protection via HDMI Input 3 and the main output. This is essential for viewing premium streamed and broadcast Ultra HD content.

## 4K Video Upscaling and ISF Calibration

The PR-SC5530 includes industry-leading Qdeo™ 4K upscaling technology, which converts low-resolution video to liquid-smooth 1080p (for a Full HD display) or 4K on compatible Ultra HD sets. Selectable ISF video calibration further optimizes picture quality for stunning images in bright or low-light conditions.

## Three HDMI Outputs for Multizone Video

The Zone 2 HDMI output routes 1080p video from media players connected to your receiver to a second TV with easy remote app control in all rooms. HDMI Sub Out is ideal for connecting a projector.

## Wi-Fi® and Bluetooth Inside

The PR-SC5530 features built-in Wi-Fi and Bluetooth. Our free control app puts a range of streaming options at your

fingertips, from hi-res audio via NAS to internet streaming to music on smartphone and tablet. Or pair up and enjoy whatever's playing on your Bluetooth-compatible device with huge cinematic sound. Thanks to Advanced Music Optimizer enhancement, near CD-quality audio is ready in moments, without the wires.

## Stream Music from Smartphone and Tablet

For lossless audio streaming, tap on the Onkyo Remote App icon on your smartphone to find your music loaded up and ready with familiar song organization and playback controls. You can also browse and stream from Spotify and Deezer (as well as internet radio services) from within the app, or locate and stream your 192/24, 96/24, and 5.6 MHz DSD albums on NAS and PC. It's never been easier to enjoy the extraordinary depth and detail of high-resolution music on your home cinema.

## DTS Neo:X™ 11.1-Channel Upmixing

DTS Neo:X employs unique algorithms to upmix stereo or 5.1-channel soundtracks for playback through up to eleven channels. Selectable listening modes optimize frequency response for music, movies, and games with intelligent multiplexing technology allowing you to enjoy balanced and immersive surround sound from regular stereo sources.

## Wide Connectivity for All Your Components

The PR-SC5530 has both 11.4 multichannel pre-outs and balanced 11.4-channel XLR pre-outs to connect one or more multichannel and stereo power amplifiers. For home cinema lovers looking for ultimate in performance, there are four parallel subwoofer pre-outs, and connectivity is rounded out with a phono input, six digital audio inputs and seven analog inputs, four composite video inputs (and a Zone 2 analog video out), and three 12V trigger outputs.

## Multi-Zone Audio and Bi-Amping Capability

If a seven-channel home theater is enough for you, you can assign channels to send audio to two other rooms of your home, perhaps via some in-ceiling speakers in the kitchen or bedroom. Select and play any audio you want in any zone using the remote app. Alternatively, you can bi-amp compatible front loudspeakers for improved audio performance.

*Note: Multizone playback and bi-amping requires a compatible power amp.*

## AccuEQ Calibration for Pure Audio Performance

As part of our Emotion, Delivered audio concept, which brings together technologies that significantly improve both stereo and multichannel sound quality, Onkyo introduces the powerful AccuEQ room calibration system. AccuEQ measures and corrects speaker distances, levels, crossovers, and frequency response from one convenient listening position to ensure clear and cohesive surround-sound while enabling playback of 7.1-channel formats at 96 kHz (no down-sampling). For the ultimate in pure stereo performance, AccuEQ bypasses the front channels so the unique characteristics of your loudspeakers can be enjoyed without DSP correction to potentially alter the sound.

## SPECIFICATIONS

### Controller Section

THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half Power)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)
Rated RCA Output Level and Impedance	200 mV/470 Ω (Pre Out)
Maximum RCA Output Level and Impedance	4.6 V/470 Ω (Pre Out)
Rated XLR Output Level and Impedance	400 mV/470 Ω (Pre Out)
Maximum XLR Output Level and Impedance	9.2 V/470 Ω (Pre Out)
Phono Overload	70 mV (MM, 1 kHz, 0.5%)
Frequency Response	5 Hz–100 kHz/±1 dB, -3 dB (Direct Mode)
Tone Control	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)

### 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)
Component Video Frequency Response	5 Hz–100 MHz/±0 dB, -3 dB

### Tuner Section

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

### General

Power Supply	AC 220–240V~, 50/60 Hz
Power Consumption	60 W
No-Sound Power Consumption	55 W
Standby Power Consumption	0.13 W
Dimensions (W x H x D)	435 x 199 x 461.5 mm (Height 259 mm with antennas raised)
Weight	14.0 kg

### CARTON

Dimensions (W x H x D)	602 x 337 x 594 mm
Weight	18.5 kg

### Supplied Accessories

- Indoor FM antenna • Antenna isolator\* • AM loop antenna • Color labels for speaker cables • Speaker setup microphone • Instruction manual • Remote controller • AA (R6) batteries\* x 2

\*Included with Chinese model only.

\*\*Not included with Chinese model.



Text on receiver may vary with region.

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. THX, the THX logo, and Ultra2 are trademarks of THX Ltd. THX and the THX logo are registered in the U.S. and other jurisdictions. All rights reserved. Manufactured under license from Dolby Laboratories. Dolby, Atmos, Pro Logic, 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, DTS-HD, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS-HD Master Audio is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved. 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. iPhone, iPod, iPod classic, iPod nano, iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. 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 device with iPod or iPhone may affect wireless performance. Android is a trademark of Google Inc. and InstaPrevue and the InstaPrevue logo are trademarks or registered trademarks of Silicon Image, Inc. in the United States and other countries. MHL, the MHL logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL LLC in the United States and other countries. Qdeo and QuietVideo are trademarks of Marvell or its affiliates. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. Music Optimizer, Theater-Dimensional, and AccuEQ are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.



Onkyo Corporation Kitahama Chuo Bldg, 2-2-22 Kitahama, Chuo-ku, Osaka 541-0041 JAPAN <http://www.onkyo.com/>  
 Onkyo Europe Electronics GmbH Liegertstrasse 6, 82194 Grobenzell, GERMANY Tel: 49-8142-4208-10 Fax: 49-8142-4208-202 <http://www.eu.onkyo.com/>  
 Onkyo Europe Electronics GmbH (UK Branch) Meridian House, Ground floor, 69-71 Clarendon Road, Watford, Hertfordshire, WD17 1DS UNITED KINGDOM  
 Tel: +44-871-200-1996 Fax: +44-871-200-1995 <http://www.onkyo.co.uk/>  
 Onkyo China Limited Unit 1033, 10/F., Star House, No. 3, Solisbury Road, Tsim Sha Tsui, Kowloon, Hong Kong, CHINA Tel: 852-2429-3118 Fax: 852-2428-9039  
[\(Hong Kong\)](http://www.hk.onkyo.com) [\(Mainland\)](http://www.cn.onkyo.com)