PR-SC5509 9.2-CHANNEL NETWORK A/V CONTROLLER

BLACK





Microphone for Audyssey

READY

4K UPSCALING

Onkyo's New Flagship Pre-Amp Handles It All

Boasting the premium quality assurance of THX® Ultra2 Plus™, the PR-SC5509 is the ultimate conduit for all your music, games, and movies. Whether from a Blu-ray or SACD player, from your PC or the web, from a game console or an iPhone, your entertainment is brought stunningly to life. Eight HDMI® inputs for high-definition formats such as 3D video and lossless audio and an Ethernet jack for home-network audio make system integration a breeze. HDMI terminals, 9.2-channel XLR outs, and stereo XLR inputs are gold-plated for pristine signal transfer. Further evidence of audiophile build quality comes in the form of a customized toroidal transformer, separate audio/video transformers, and an anti-vibration chassis. Processing is also top-notch. For video, an HQV® Vida™ processor and Qdeo™ technology work to eliminate noise and upscale video to eye-popping 4K resolution. On the audio side, Audyssey MultEQ® XT32 and DTS Neo:X™ offer incredible flexibility for creating an immersive room-matching soundstage. Partnered with a high-end 9-channel power amp and surround speakers, the PR-SC5509 keeps the high-quality entertainment flowing.

ADVANCED FEATURES

- THX® Ultra2 Plus™ Certified
- HDMI® Support for 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- Massive Toroidal Transformer and Two Separate Transformers for Audio and Video Processing
- Separate Anti-Vibration Aluminum Panels
- VLSC™ (Vector Linear Shaping Circuitry) for All Channels
- High-Quality HQV® Vida™ VHD1900 Video Processor
- ISF (Imaging Science Foundation) Video Calibration for Optimal Video Performance
- HDMI Video Upscaling to 4K with Qdeo™ Technology by Marvell
- DTS Neo:X™, Audyssey DSX™, and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Audyssey MultEQ® XT32 to Correct for Room Acoustics
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Supports Onkyo Remote Apps for Control of A/V Receiver via iPod touch/iPhone*1 and Android Phone*2
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio and Music Streaming Connectivity (vTuner, Last.fm*3, Spotify*3, AUPEO!)
- Bi-Amping Capability
- DSD Direct for Super Audio CD
- Zone 2/3 Pre-Outs and Subwoofer Pre-Outs, and Zone 2 Video Out for Distributed A/V Playback in Multiple Rooms
- Gold-Plated HDMI Terminals (2 Inputs and 1 Output Only)
- Gold-Plated, Machined Solid Brass A/V Terminals (19 mm-Pitch Inputs for TV/CD and Phono)
- Gold-Plated, 9.2-Channel Balanced XLR Pre Outs (with Front Bi-Amping Capability)
- Gold-Plated, 2-Channel Balanced XLR Inputs

**1 Compatible iPod/iPhone models: iPod touch 3rd generation or later; iPhone 3GS or later. (All models require iOS 4.2 or later.) *2 Requires Android OS 2.1 or later. *3 Availability of services depends on region.*

PROCESSING FEATURES

- Dolby® TrueHD and DTS-HD Master Audio™ Decoding
- TI Burr-Brown 192 kHz/32-Bit DACs (PCM1795 x 6) for All Channels
- Advanced 32-Bit Processing DSP Chip
- Linear Optimum Gain Volume Circuitry
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology
- Advanced Music Optimizer for Compressed Digital Music
- Handles Playback of Mass Storage Class USB Memory
- Theater-Dimensional Virtual Surround Function
- Direct Mode and Pure Audio Mode

CONNECTION FEATURES

- 8 HDMI® Inputs (1 Front/7 Rear) and 2 Outputs
- Universal Port for Onkyo Peripheral Devices Such as UP-A1 Dock for iPod/iPhone or UP-DT1 DAB+ Radio Tuner
- 2 USB Ports (1 Front/1 Rear)
- Compatible with UWF-1 Wireless LAN Adapter (via Front-Panel USB Port)
- 3 Component Video Inputs and 1 Output
- 5 Composite Video Inputs and 2 Outputs
- 4 S-Video Inputs and 2 Outputs
- Analog RGB Input (D-sub, 15 pin) for PC Video
- 7 Digital Audio Inputs (4 Optical and 3 Coaxial)
- 7 Analog Audio Inputs and 1 Output, Phono Input
- Color-Coded, 7.1 Multichannel Inputs
- Color-Coded, 9.2 Multichannel Pre-Outs (Including 2 Independent Subwoofer Pre-Outs)
- Dual IR Inputs with Common Output
- 12 V Trigger Outs (A, B, and C), RS232 Port

OTHER FEATURES

- Overlaid Graphical On-Screen Display (OSD) and GUI Navigation via HDMI
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Dolby® Volume for Reference-Quality Listening at Any Volume
- 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 in 5 ms Steps)
- Tone Control (Bass/Treble) for All Channels
- Light Dimming (Display: Normal/Dim/Dimmer; Volume Knob LED: On/Off)*
- RDS (PS/RT/PTY/TP), 40 FM/AM Random Presets
- Certified with Windows® 7 and DLNA Version 1.5
- RIHD (Remote Interactive over HDMI) for System Control
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control with On-Screen Setup, Mode-Key LEDs, and Macro Presets for Four Activities

**Note: Volume knob LED is always off when display is dimmed.*

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Onkyo Remote Apps for iPod touch/iPhone and Android

The Onkyo Remote App for iPod touch/iPhone*[1] and the Onkyo Remote App for Android*[2] both provide an intuitive way to operate Onkyo network A/V receivers. At your fingertips, you have the ability to control input sources, adjust settings, and enjoy your content more seamlessly than ever. The two Remote Apps are available separately as free downloads.

**1 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. *2 Requires Android OS 2.1 or later.*

Separate Panel Construction

The PR-SC5509 features separate aluminum panels for the sides and front to reduce unwanted vibrations caused by internal resonance. Compared to a one-piece chassis design, this construction method offers greater rigidity and improved noise reduction.

Network Capability Delivers Internet Radio and Network Audio Streaming via Ethernet

Linking directly to the internet or to a media server or home PC via a local network, the PR-SC5509 takes streaming audio and internet radio to a whole new level. MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, and LPCM audio files can now be played back through your main system with unprecedented power and fidelity.

The PR-SC5509 also brings to life a huge array of internet radio channels from Last.fm and vTuner, plus on-demand music streaming from Spotify, and AUPEO!*. As well as being compatible with earlier platforms, the receiver is compatible with Microsoft's Windows® 7 platform, which includes the DLNA 1.5-specified "Play To" media-streaming feature. The PR-SC5509's internet connectivity has the added benefit of making firmware updates simpler than ever.

**Availability of internet radio and music streaming services depends on region.*

THX® Ultra2 Plus™ Certified

The ultimate benchmark for home audio performance, THX Ultra2 Plus is specified for rooms where the screen-to-seat viewing distance is more than 4 meters and the room volume is 85 cubic meters or greater. To achieve THX Ultra2 Plus certification, the PR-SC5509 must meet the world's most demanding standards for home cinema audio quality and performance, and must play at reference volume levels with minimal distortion.

High-Quality Video Processing with HQV® Vida™ VHD1900

The sophisticated HQV Vida VHD1900 processor enhances the quality of both standard-definition and high-definition video sources. The chip employs multi-cadence tracking, expanded 12-bit color processing, and four-field motion-adaptive de-interlacing to optimize video quality and detail. Two new HQV technologies are incorporated into the VHD1900: Auto HQV™, which automatically enhances the incoming image; and HQV StreamClean™, which cleans up compressed video in real time by eliminating mosquito and block noise from lower-quality sources such as online video sites.

4K Video Upscaling

The PR-SC5509 employs Qdeo technology from Marvell to achieve full 4K (3840 x 2160) upscaling of 1080p video sources—even sources that have been upscaled to 1080p from lower resolutions by on-board HQV Vida technology. Played back on a compatible wide-screen display, your Blu-ray Discs and other high-def content will look more detailed and cinematic than ever.

ISF Video Calibration for Accurate Video Reproduction

The PR-SC5509 is equipped with industry-leading ISF (Imaging Science Foundation) video calibration to dramatically improve your home cinema by enabling you to adjust the brightness, hue, contrast, saturation, and gamma levels on all video inputs. Transforming your A/V controller into a video hub, this function ensures that every video source is independently calibrated for your connected high-definition display. What's more, ISF video calibration has been shown to improve energy savings in displays and projectors by up to 50%.

VLSC™ (Vector Linear Shaping Circuitry)

Onkyo's VLSC employs a unique digital-to-analog conversion circuit to mitigate the effects of signal noise. Data is converted between discrete sampling points, which are then joined with analog vectors in real-time to produce a continuous output wave form. The result—a noiseless, smooth analog signal based on the digital source.

DTS Neo:X™ Adds Extra Dimensions to Surround Sound

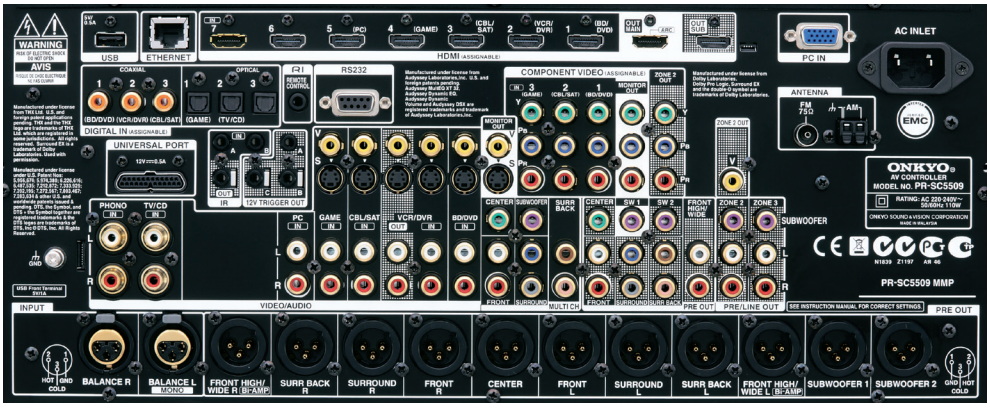
The PR-SC5509 is one of the first receivers in the world to feature DTS Neo:X, a new technology that offers a multitude of ways to set up the speakers in a 9.1-channel home cinema system. A basic 5.1-channel set-up can be complemented by one of three different arrangements: (1) You can add surround back and front-height speakers to bring out ambient, non-directional sounds; (2) You can add surround back and front-wide speakers to provide a more expansive soundstage; or (3) You can add front-height and front-width speakers to create an immersive space without needing to install rear speakers.

SPECIFICATIONS

Controller Section	
THD+N (Total Harmonic Distortion + Noise)	0.05% (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	1.0 V/470 Ω (Pre out)
Maximum RCA Output Level and Impedance	5.5 V/470 Ω (Pre out)
Rated XLR Output Level and Impedance	2.0 V/470 Ω (Pre out)
Maximum XLR Output Level and Impedance	11.0 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 and S-Video Y) 0.7 Vp–p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp–p/75 Ω (S-Video C) 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 220–240 V~, 50/60 Hz
Power Consumption	110 W
Dimensions (W x H x D)	435 x 198.5 x 453.5 mm
Weight	14.0 kg
CARTON	
Dimensions (W x H x D)	634 x 369 x 610 mm
Weight	18.5 kg

Supplied Accessories

Indoor FM antenna AM loop antenna Speaker cable labels
Speaker set-up microphone Instruction manual
Quick set-up guide Remote controller AA (R6) batteries x 2



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