

SRX-R510P

4K digital cinema
projection system
for small screens



Key Feature

True 4K images with premium-quality lens and integrated media block

The SRX-R510P with 4096 x 2160 pixel resolution that's four times the resolution of 2K and HD. The top-quality F2.5 large aperture lens employs ELD (Extra Low Dispersion) glass to create finely-detailed 4K images. Unlike other projection systems that combine a 2K lens and 4K media block, the SRX-R510P combines a set of 4K SXRD panels plus 4K lens and media block for true 4K images at the highest resolution.

Give audiences the immersive thrill of Sony 4K for small cinema screens.

Building on the success of the acclaimed SRX-R515P, the SRX-R510P brings a true Sony 4K digital cinematic experience to cost-conscious smaller theatres.

Teaming superb 4K picture quality with affordable running costs, the SRX-R510P shares the same compact body, integrated media block and SXRD optical engine as the SRX-R515P.

Also derived from the SRX-R515P, the resilient 4-lamp High Pressure Mercury (HPM) array delivers a 9,000 lumen light output from four individually-replaceable projection lamps.

There's a choice of high quality 2D projection lenses to suit different-sized auditoria. And it's simple upgrading to smooth, immersive 3D with the addition of an easy-to-fit 3D lens/filter option.

The easy-to-use projector features an intuitive 15-inch touch panel user interface, and can also be controlled remotely via a networked PC and web browser.



Features

Easy-on-the-eye 3D

Sony's unique dual lens system displays 3D movies at their native 2K resolution. Left and Right eye images are projected simultaneously to achieve crisp 3D images, without the problems associated with 'triple flash' image alternation systems.

High contrast for lifelike images

The SXRD optical engine of the SRX-R510P delivers an extremely high contrast ratio more than 4,000:1, assuring lifelike images with sparkling highlights and deep, dark blacks.

Cost-effective HPM lamp array offers safe, easy lamp replacement

An array of four High Pressure Mercury (HPM) lamps offers high brightness, resilience and durability. Projector operation is maintained even if a lamp fails during a performance. Lamp replacement is safe and easy, while contributing to reduced overall running costs.

High brightness projection on screens up to 10m wide

The SRX-R510P offers a generous brightness of 9,000 lumens (with 450W lamps), optimised for small cinema screens up to 10m wide (with 450W lamps, for 2D projection).

Convenient installation

The projector can be conveniently installed in smaller projection booths. The body structure also forms a security enclosure specifically developed to comply with the FIPS-140/2 physical security and anti-tamper requirements specified by the DCI.

High speed content ingest

The SRX-R510P features high network transfer speeds via USB 3.0, assisting with streamlined show scheduling for busy theatre managers.

Larger size GUI and remote control of screen management system software

The large 15-inch touch screen Graphical User Interface (GUI) is compatible with Sony's Theatre Management System that simplifies projector set-up, content management and creation of a complete show schedule. Remote operation is also supported via a networked PC and web browser.

Flexible 3D and alternative content via HDMI

Two standard HDMI inputs allow 3D playback, as well as simplifying projection of alternative content such as live video or Blu-ray Disc playback.

SRX-R510P

Give audiences the
immersive thrill of Sony 4K

SRX-R510P & Server



New touch panel monitor and
graphical user interface

New light source system
(4x high pressure mercury lamps)

New optical engine

New Integrated Media Block

New server

Specifications

| SRX-R510P | |
|--------------------------------------|---|
| Projector | |
| Display Device | 3 x 1.48 inch 4K SXRD |
| Lamp | 4 x 450W High Pressure Mercury (HPM) lamps or 4 x 330W High Pressure Mercury (HPM) lamps |
| Light output (Average) | 9,000 lm (centre) (450W lamp) / 6,600 lm (centre) (330W lamp) |
| Contrast ratio | more than 4,000:1 |
| Interface | |
| Video Input | HDMI x 2 |
| Audio Output | Unbalance 8ch 24bits, 48/96kHz, Linear PCM AES/EBU 16ch 24bits, 48/96kHz, Linear PCM |
| Ingest | USB 3.0 x 2 CRU Data Port Slot x 1 |
| System Control | GPIOs x 8 / GPOs x 16 USB 2.0 x 1 (for UPS control) RS-232C x 1 (for Audio Processor Control ^{*1}) |
| Network | Gigabit Ethernet x 2 |
| Storage and Playback | |
| Storage | 4TB Modified RAID6 |
| Playback (JPEG2000) | 4K 2D: 24P 2K 2D: 24/25 ² /29.97 ² /30 ² /48/60P 2K 3D: 24/29.97 ² /30 ² /48/60P |
| Playback (Others) | MPEG2 ³ MP@HL YUV4:2:0/4:2:2 8bit Bit rate 80Mbps (max) 1920 x 1080 23.09P/24P/25P |
| General – Projector | |
| Dimensions (WxHxD) | 548 x 634 x 1119 mm (21.5 x 24.9 x 44 inches) ⁴ |
| Mass | Approx. 145kg (319.6 lb) ⁵ |
| Power Requirement | AC 200 to 240V, 50-60Hz, Single-phase, 21.5A to 18A |
| Power Consumption | 450W lamp: Max. 4.3kW 330W lamp: Max. 3.2kW |
| Exhaust Airflow | 450-550CFM |
| General – Server | |
| Dimensions (WxHxD) | 482 x 131 x 560 mm (18.9 x 5.1 x 22 inches) |
| Mass | Approx. 24kg (52.9 lb) |
| Power Requirement | AC 100 to 240V, 50-60Hz, Single-phase, 2.2A to 1.0A |
| Power Consumption | Max. 240W |
| General – Touch panel monitor | |
| Dimensions (WxHxD) | 350 x 310 x 57 mm (13.7 x 12.2 x 2.2 inches) |
| Mass | Approx. 3.6 kg (7.9 lb) |
| Power Requirement | DC12V, 1A, Adaptor: AC 100 to 240V, 50-60Hz, Single-phase |
| Power Consumption | Max. 12W |
| General – Common | |
| Operating Temperature | 5°C to -35°C (41°F to 95°F) |
| Operating Humidity | 35% to 85% (no condensation) |
| Storage Temperature | -20°C to +60°C (12°F to 140°F) |
| Storage Humidity | 10 to 90% |
| Other | |
| Safety Regulation | Digital Cinema Projector SRX-R510P VCCI Class A, UL 60950-1, CSA C22.2 No.60950-1, FCC/IC Class A Digital Device, IEC 60950-1, EN 55022 Class A + EN 55024, EN 61000-3-11 + EN 61000-3-12, AS/NZS CISPR22 (EN 55022) Class A Digital Cinema Server XCT-S10 VCCI Class A, 電気通信事業法, UL 60950-1, CSA C22.2 No.60950-1, FCC/IC Class A Digital Device, IEC 60950-1, EN60950-1, EN 55022 Class A + EN 55024, EN 61000-3-2 + EN 61000-3-3, AS/NZS CISPR22 (EN 55022) Class A Touch Panel Monitor LKRA-007 VCCI Class A, FCC/IC Class A Digital Device, EN 55022 Class A + EN 55024, AS/NZS CISPR22 (EN 55022) Class A |
| Supplied Accessories | Digital Cinema Projector SRX-R510P Keys for removing panels (5), Safety regulations (1), TPC arm (1 set), Cable clasper (2) Digital Cinema Server XCT-S10 Feet (1 set), PCI express cable (2m) (1), Ethernet cable (2m) (1) Touch Panel Monitor LKRA-007 AC adaptor (1), VGA cable (1), USB cable (1) Sony supplies the first set up lamps with every Projector, this is included in the Projector price. |

| SRX-R510P | | | |
|--------------------|---|---|---|
| 2D Lens | LKRL-Z511 | LKRL-Z514 | LKRL-Z519 |
| Throw Ratio | 1.05-1.75 | 1.35-2.34 | 1.80-4.00 |
| V shift | +/- 35% | | |
| H shift | +/- 7% | | |
| Dimensions (WxHxD) | 256 x 315 x 429 mm (10 x 12.4 x 16.8 inches) | 256 x 315 x 454 mm (10 x 12.4 x 17.8 inches) | 256 x 315 x 413 mm (10 x 12.4 x 16.2 inches) |
| Mass | 14.5kg (31.9 lb) | 14kg (30.8 lb) | 13kg (28.6 lb) |
| Lamp | LKRM-U450 | LKRM-U330 | |
| Dimensions (WxHxD) | 89 x 122 x 148 mm (3.5 x 4.8 x 5.8 inches) | | |
| Mass | 510 g (1.1 lb) | | |

| Supported signals for HDMI inputs | | |
|-----------------------------------|--|---|
| Video | | |
| Resolution | Frame Rate | |
| 720 x 480 | 59.94P / 59.94I / 60I / 60P | |
| 720 x 576 | 50I / 50P | |
| 1280 x 720 | 50P / 59.94P / 60P | |
| 1920 x 1080 | 23.98P/24P / 50I / 50P / 59.94I / 60I / 59.94P / 60P | |
| 2048 x 1080 | 23.98P / 24P / 60P | |
| Computer | | |
| Resolution | Frame Rate | |
| VGA (640 x 480) | 60 | |
| XGA (1024 x 768) | 60 | |
| UXGA (1600 x 1200) | 60 | |
| WUXGA (1920 x 1200) | 60 | |
| 3D | | |
| 3D structure | Resolution | Frame Rate |
| Frame Packing | 1280 x 720 | 50P / 59.94P/60P |
| | 1920 x 1080 | 23.98P/24P |
| Top & Bottom | 1280 x 720 | 50P / 59.94P/60P |
| | 1920 x 1080 | 23.98P/24P / 50P / 59.94P/60P |
| Side by Side | 1280 x 720 | 50P / 59.94P/60P |
| | 1920 x 1080 | 50I / 50P / 59.94I / 59.94P/ 60I / 60P |
| Dual Input ^{*6} | 1280 x 720 | 50P / 59.94P/60P |
| | 1920 x 1080 | 23.98P/24P / 50I / 50P / 59.94I / 59.94P/ 60I / 60P |

*1 The tested audio processors are listed below.

Dolby CP650 (ver. 1.2.3.0, ver. 2.2.5.3, ver. 2.3.5.3, ver. 2.3.6.3, ver. 2.3.6.6)
Dolby CP750 (ver. 1.2.8.3) * You can also control the CP750 via network.

*2 We don't support watermarking on these frame rate.

*3 We don't support watermarking and handling subtitle file on MPEG2 content.

*4 It includes lens shift block and adjustable feet and excludes touch panel monitor and projecting parts of the unit such as status light and chimney.

*5 It excludes lamps, lens, and touch panel monitor.

*6 Each L and R image is separately fed to two HDMI input.

For full features visit www.pro.sony.eu/dcinema

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