

SRX-R510P

Affordable 4K digital cinema projection system for small screens



Overview

Gives audiences the immersive thrill of Sony 4K for cinema screens up to 10 metres wide

Building on the success of the acclaimed SRX-R515P, the SRX-R510P brings a true Sony 4K digital cinematic experience to smaller theatres with limited budgets. Teaming superb true 4K picture quality with low running costs, the SRX-R510P shares many of the same features as the SRX-515P, including a compact body, integrated media block and SXR technology. Also derived from the SRX-R515P, the resilient High Pressure Mercury (HPM) array delivers a 9,000 lumen light output from four individually-replaceable projection lamps (compared to six lamps for the SRX-515P). There is a choice of high quality true 4K 2D projection lenses to suit different-sized auditoria. And it is simple to upgrade 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.

True 4K images

4096 x 2160 pixels, four times the resolution of 2K and HD.

High brightness projection on screens up to 10m wide

Brightness of 9,000 lumens (with 4x 450W lamps), optimised for small cinema screens up to 10m wide.

Features

High contrast images

High contrast ratio of more than 4,000:1.

Cost-effective HPM lamp array

Lamp replacement is safe and easy, while contributing to reduced overall running costs.

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

The SRX-R510P offers true 4K projection, with 4096 x 2160 pixels, 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.

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.*

* For extended headroom with future 3D brightness expectations, the SRX-515P, with two additional lamps, is to be considered alternatively depending on screen dimensions.

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

Brightness of 9,000 lumens (with 4x 450W lamps)/ 6,600 lm (centre) (330W lamp), optimised for small cinema screens up to 10m wide.

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 toughest physical security and anti-tamper requirements.

High speed content ingest

The SRX-R510P features high network transfer speeds, assisting with streamlined show scheduling for busy theatre managers. The system has 2x Gigabit Ethernet ports as well as 2x USB 3.0 ports and 1x CRU data port slot for SATA transfers, if required.

Larger size GUI and remote control of screen management system software

The large 15-inch touch screen Graphical User Interface (GUI) that makes it easy to control the projector. Remote operation of the projector is also supported via a networked PC and web browser.

Flexible 3D and alternative content via HDMI

Two standard HDMI inputs allow alternative content playback, such as live video or Blu-ray Disc playback, in both 2D and 3D.

Specifications

Display system

Display system

4K SXR projection system

Display device

Size of effective display area 1.48" x 3 SXR D

Number of pixels 26,542,080 (4096 x 2160 x 3) pixels

Light source

Type High-pressure mercury lamp

Wattage 450 W (4) or 330 W (4) type

Light output

450 W lamp 9000 lm

Contrast ratio *1

450 W lamp 8000:1

INPUT OUTPUT

Video input HDMI (1) *2

Unbalance, 8 channels, 24 bit,
48/96 kHz, linear PCM, D-sub 25-
pin (female) (1)

Audio output AES/EBU, 16 channels, 24 bit, 48/96 kHz, linear PCM, D-sub 25-pin (female) (1)

Playback format

JPEG 2000 4K 2D: 24/25p*3/30p*3
 2K 2D:
 24p/25p*3/29.97p*3/30p*3/48p/60p
 2K 3D: 24p/29.97p*3/30p*3/48p/60p

MPEG2*4 MP@HL, YUV420 /422 8 bit, 80 Mbps (max.) bitrate, 1920 × 1080, 23.98p/24p/25p

Operating temperature (Operating humidity)

Operating temperature (Operating humidity) 5°C to 35°C (41°F to 95°F) / 35% to 85% (no condensation)

Storage temperature (Storage humidity)

Storage temperature (Storage humidity) -20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)

Power requirements

Power requirements	AC 200 V to 240 V, 21.5 A to 18 A, 50/60 Hz, Single Phase
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Dimensions (W x H x D)

Dimensions (W x H x D)*5	W548 x H634 x D1119 mm
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Mass

Mass	Approx. 145 kg (Excluding touch panel monitor, lamp and lens)
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Optional accessories

Replacement lamp (6 pack)	LKRM-U450/LKRM-U330
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Projection lenses (2D)	LKRL-Z511/LKRL-Z514/LKRL-Z519
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Projection lenses (3D)	LKRL-A502 PACK/LKRL-A503 PACK/LKRL-A502/LKRL-A503
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3D Lens Filter	LKRA-005
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Lens Change Table	LKRA-008
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Notes

*1	The value is average.
*2	Audio signals included in HDMI cannot be output from the audio output connector of this unit.
*3	Digital watermarking (Watermarking) is not supported at these frame rates.
*4	Digital watermarking (Watermarking) and playback of subtitle files are not supported.
*5	Including lens shift block and feet. Excluding touch panel monitor and projection parts (Status lights, ducts, etc.)
Environmental notice for customers in the USA	Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see www.sony.com/mercury for additional information.

Gallery

