

SRX-R810P

4K digital cinema projection system with laser light source, for small screens



Overview

Bright, high-contrast pictures plus the quality and reliability of laser projection

The SRX-R810P is an HDR-ready 4K laser projection system for digital cinema applications. This high-performance projection system ensures an impressively immersive, true-to-life visual entertainment experience in 2D or 3D for movie audiences.

The SRX-R810P delivers outstandingly crisp, high-contrast images through the combination of precision optics and Sony's advanced 4K native Silicon X-tal Reflective Display (SXRD) panel technology.

An industry-leading contrast ratio of 10,000:1 combined with a brightness of 7,500 lumens allows stunning presentation of standard cinema content as well as High Dynamic Range (HDR) on suitably sized screens. The projector's reliable, long-lasting laser light source effectively eliminates the need for lamp replacement that's typically required with conventional cinema projectors.

Features

HDR ready with high 10,000:1 contrast ratio

The projector's optical engine can create extremely high contrast 10,000:1 images by reducing internal light leakage, giving a more lifelike picture with bright, sparkling highlights and very dark blacks. This makes the SRX-R810P ideal for presenting HDR (High Dynamic Range) content.

Easy-on-the-eye Sony 3D performance with no flashing

Sony's unique dual lens system displays 3D movies. The dual lens combined with 3D technology projects the Left and Right eye images simultaneously to achieve crisp 3D images, giving none of the flashing issues associated with systems that use 'triple flash' image alternation technology.

True 4K images in lens and integrated media block

The SRX-R810P offers true 4K projection that conforms to the DCI specification, with 4096 x 2160 pixels, four times the resolution of 2K and HD. The F2.5 large aperture lens is made from ELD (Extra Low Dispersion) glass to create super fine pitch 4K image. Unlike competitor systems that combine a 2K lens with a 4K media block, the SRX-R810P features a 4K SXRD panel and 4K lens for true 4K images at the highest resolution.

Long lasting laser light source

The SRX-R810P features a reliable, long-lasting laser light source. This effectively

eliminates the need for frequent lamp replacement that's typically required with conventional projectors.

High brightness on cinema screens up to 12.4 metres wide

The SRX-R810P offers a high brightness of 7,500 lumens - ideal for presentation on screens up to 12.4 metres wide.

High speed content ingest/transfer and high capacity storage

High network transfer speeds via USB 3.0 allow theatre managers to create flexible show scheduling. Storage capacity can be expanded from 4TB up to a maximum 8TB.

Larger size GUI and remote PC control of screen management system software

The SRX-R810P has a large 15-inch Graphical User Interface (GUI) that is consistent with the Sony Theatre Management System. This allows the operator to set up the projector, manage content and create a complete show-schedule. In addition, the system supports remote PC control to make theatre operation more effective.

Flexible alternative content input configuration

The projector is equipped with HDMI 2 inputs as standard for presentation of alternative content.

Specifications

Display system	
Display system	4K SXR D 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	Laser diode
Light output	
Light output	7,500 lm
Light source brightness stability *1	
Light source brightness stability	35,000H / 80% (25°C room temperature)
Contrast ratio *2	
Contrast ratio	10,000:1
INPUT OUTPUT	

Video input	HDMI (2) *3
Audio output	Unbalance, 8 channels, 24 bit, 48/96 kHz, linear PCM, D-sub 25-pin (female) (1) AES/EBU, 16 channels, 24 bit, 48/96 kHz, linear PCM, D-sub 25-pin (female) (1)

Playback format

JPEG 2000	4K 2D: 24p 2K 2D: 24p/25p*4/29.97p*4/30p*4/48p/60p 2K 3D: 24p/29.97p*4/30p*4/48p/60p
MPEG2*5	MP@HL, YUV420 /422 8 bit, 80 Mbps (max.) bitrate, 1920 × 1080, 23.98p/24p/25p

Operating temperature and humidity

Operating temperature / Operating humidity	Operating temperature: 5°C to 35°C (41°F to 95°F) / Operating humidity: 35% to 85% (no condensation)
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Storage temperature and humidity *6

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

Power requirements	AC 200 V to 240 V, 10.5 A to 8.8 A, 50/60 Hz, Single Phase (excluding chiller)
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Dimensions (W x H x D) *7

Dimensions (W x H x D)	544 x 827 x 1239 mm
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Mass

Mass	Approx. 205 kg (Excluding touch panel monitor, lamp and lens)
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Optional accessories

- Projection lenses (2D)
LKRL-Z511/LKRL-Z514
LKRL-Z519: For areas other than China
- Projection lenses (3D)
LKRL-A502/LKRL-A503
- 3D Lens Filter

Optional accessories	LKRA-005
	Lens Change Table LKRA-008
	Key for HDD Upgrade Kit LKRA-009/LKRA-009K
	Projector Auto Calibration Box LKRA-PCAB1/2: For areas other than China LKRA-PCAB1
	ATMOS License LSM-B1: For areas other than China LSM-B1C: For China
	LSM-D1: For areas other than China LSM-D1C: For China

Notes

*1	It is based only upon deterioration of light source (laser diode) at 25°C room temperature, and, does not take account on the effect of dust etc. Plus, the speed of deterioration varies by the environment of usage, and thus, it does not guarantee the life/brightness of the light source.
*2	The value is typical.
*3	Audio signals included in HDMI cannot be output from the audio output connector of this unit.
*4	Digital watermarking (Watermarking) is not supported.
*5	Digital watermarking (Watermarking) and playback of subtitle files are not supported.
*6	This product requires external chiller for cooling system. Please contact your Sony representative in your region. Cooling-liquid from the chiller must completely be drained/removed from the projector under 0°C (32°F) room temperature.
*7	Including lens shift block and feet. Excluding touch panel monitor and projection parts (Status lights, ducts, etc)

Gallery

