



SRX-R220

4K resolution high brightness digital cinema projector

Redefining the digital cinema experience



The SRX-R220 enables exhibitors to project movies with on-screen resolution that ensures the best viewing experience available for cinema-goers. It is specifically designed to display DCI compliant cinema files and high definition 'alternative content' on screens up to 20 metres wide at the highest quality level defined by the DCI.

The SRX-R220 forms the basis for a complete digital cinema system which combines Sony's industry leading 4K projection technology with a new projector housing specifically engineered to meet FIPS 140/2 security requirements. The enclosure features built-in rack space for Sony's LMT-100 Media Block and attached RAID, or for a compatible server from another manufacturer.

The SRX-R220 will also fit in regular projection booths with standard window clearance, and can be operated in the same booth, side-by-side, with a film projector.

Features

Outstanding resolution of 4K (4096 H x 2160 V) pixels

4K movies bring the visual experience enjoyed by the director right to the cinema audience and keeps cinema ahead of HD home entertainment. 4K resolution is the highest quality standard defined in the DCI specification and is four times the resolution of 2K (2048 x 1080) and HD (1920 x 1080).

Outstanding picture quality

A high contrast ratio of greater than 2000:1, the pure light source provided by a Xenon lamp combined with industry standard colorimetry ensure that the SRX-R220 provides outstanding image quality

18,000 ANSI lumens brightness to deliver 14 ft-L on screens up to 20 metres wide

The single 4.2KW Xenon lamp delivers the SMPTE brightness level of 14 ft-L on screens up to 20 metres in width (gain 1.8)

Comprehensive security systems conforming to the demanding requirements of digital cinema

The SRX-R220 projector chassis forms a security enclosure specifically developed to comply with the physical security and anti-tamper requirements specified by the DCI.

High Definition and DVI-D inputs included as standard

The SRX-R220 is fitted with flexible alternative content inputs enabling the projector to accept 2K (2048 x 1080), dual-link HD-SDI (4:4:4) and HD-SDI (4:2:2) as well as DVI-D

Single Xenon lamp operation

A single Xenon lamp is used for cost effective operation. The 4.2 KW lamp achieves 14 ft-L on screens up to 20m (gain 1.8)

Lens memory function

Optical resizing is used to ensure there is no compromise in quality when moving between image formats. The built-in lens memory function can be used to automatically zoom the lens to provide perfect images every time

Integral projectionists terminal

6 inch colour touch screen provides local control of projector functions under control of the Screen Management Software

Flexible keystone masking

Keystone masking capability to handle both standard and curved screens

Sophisticated Screen Management System software

The Sony LSM-100 Screen Management System software functions include; ingest management, Key registration and management, show playlist management, show schedule management, playback control and log.

Benefits

Displays 4K, 2K cinema files and HD alternative content sources at the highest possible quality

The SRX-R220 digital cinema system has the flexibility to store and display both 4K and 2K DCI compliant cinema

files. 2K and HD alternative content is automatically up-converted by the projector to display a 4K image on-screen

Provides the highest resolution images on the largest screens

Developed to achieve the SMPTE brightness standard of 14 ft-L on the large screens of up to 20 metres in width* while delivering impact-full images that are free from visible pixel structure. (*for screen gain 1.8)

The complete digital cinema projection system from one supplier

Sony is uniquely the only supplier able to provided the complete digital cinema projection system comprising projector, server and highly integrated screen management system

The most future proof solution

4K cinema represents the next step in digital cinema and is endorsed by the DCI. An increasing number of new and restored movies are being released as 4K DCPs to bring the very finest detail of the original film right to the cinema audience

Technical Specifications

Main Specifications

Display device	SXRD - Silicon Crystal Reflective Display
Projection system	3-SXRD panel optical prism block system
Display device size	1.55 inches (diagonally)
Resolution (H x V)	4096 x 2160 pixels

General

Dimensions (W x H x D)	Approx. 740 x 1535 x 1395 mm
Projector light output	20 ft-L on 20 metre wide screen (gain 1.8)
Lamp	Single 4.2KW, Xenon
Contrast ratio	More than 2000:1
Power Consumption	3 phase 5.4KW for lamp Single-phase 1.2KW for electric circuits
Storage temperature	-20 to +60 degrees Centigrade
Operating temperature	+5 to +35 degrees Centigrade
Operating humidity	35 to 85% (without condensation)

Inputs/Outputs

Input A	DVI-D x 1, AUX x 1 XGA (1024x768), SXGA (1280x960), SXGA+(1400x1050), UXGA(1600x1200), WUXGA(1920x1200), HD(1920x1080), DC(2048x1080) at 60Hz
Input B	SMPTE 372M, Dual-link HD-SDI (4:4:4), SMPTE 292M, HD-SDI (4:2:2), Dual-link DC-SDI (RGB 4:4:4), DC-SDI (Y, Pb, Pr 4:2:2), 12 bit X'Y'Z'
Input C	Channel A, SLRV x 1 to connect to Sony LMT-100 Image Media Block Channel B, SLRV x 1 to connect to Sony LMT-100 Image Media Block
RS-232	D-sub 9 pin x 1
Ethernet	RJ-45 x 1, 10 Base-T/100 Base-TX