SONY

Sony Large Venue Projector

SRX-R110/R105

Preliminary

The SRX-R110 and SRX-R105 are Sony's all-new large-venue projectors, tailored with stunning features and picture performance to address the quality-critical demands in Digital Cinema applications and other large-venue systems. Combining the highest-resolution "4K" SXRD imaging device with contrast ratio of 2000:1, the SRX-R110 and SRX-R105 achieve high-quality images with rich and precise color tonal reproduction. In addition to this high performance, these projectors are designed to be small and lightweight enabling ease of installation in almost any type of facility. Equally important, their HD-SDI input – which provides an encrypted connection when – combined with an optional "media-block"*1, enables digital contents to be securely projected onto screens with absolutely no compromise in the "4K" quality.

The SRX-R110 is a 10,000 ANSI lumen*2 model for larger theater screens, while the SRX-R105 is an affordable 5,000 ANSI lumen model addressing smaller installations. The 4K-SXRD imaging panel used in both projectors can be driven at single-mode, dual-mode, and quad-mode projection. In quad mode, four screens of full HD images (1920 x 1080 pixels) can be projected from the 4K-SXRD panel simultaneously. In single mode, the industry's long-desired 4096 x 2160-pixel images are no longer imagined – they are a true reality.

*1 The optional media-block is a peripheral that incorporates the functions specified by the DCI (Digital Cinema Initiative) for secure projection of contents and co-operability with SMS (Screen Management System) etc.

*2 ANSI lumens is a measuring method of the American National Standards Institute IT 7.228. Since there is no uniform method of measuring brightness, specifications will vary among manufacturers.

SPECIFICATIONS

SRX-R110/R105			
Optical			
Projection system	3-SXRD panel, prism color integrated system		
Imaging device	SXRD, 1.55-inch (diagonal), 4096 x 2160-pixels on each chip		
Lamp	2 kW Xenon lamp x 2 (SRX-R110) 1 kW Xenon lamp x 2 (SRX-R105)		
Screen coverage	200-inch to 700-inch (viewable area, measured diagnally)		
Light output	10,000 ANSI lumen* (SRX-R110) 5,000 ANSI lumen (SRX-R105)		
General			
Colorimetry	Xenon Color Primaries		
	Encoding Primaries	x	y
	R	0.6800	0.3200
	G	0.2650	0.6900
	B	0.1400	0.0700
White reference	Xenon White Reference		
		x	y
	White reference	0.3140	0.3510
Contrast	2000:1		
Resolution	4096 x 2160 pixels (RGB) 2048 x 1080 pixels (DC-SDI input, enhanced SMPTE-292M) 1920 x 1080 pixels (HD-SDI input, SMPTE-292M) 600 TV lines (SDI input/SMPTE-259M)		
Signal specifications	VIDEO Component (YCb,Cr), HD (G,B,R/ Y,Pb,Pr) VGA ~ UXGA		
Power requirements	AC 200 to 240V, 50/60Hz (SRX-R110) AC 100 to 240V, 50/60Hz (SRX-R105)		
Power consumption	Approx. 1.5 kW to 4.5 kW (SRX-R110) 1.0 kW to 2.5 kW (SRX-R105)		
Operating temperature	50 °F to 90 °F (10 °C to 35 °C)		
Storage temperature	12 °F to 90 °F (-20 °C to 35 °C)		
Operating humidity	35 % to 85 % (Without condensation)		
Storage humidity	10 % to 90 %		
Dimensions (W x H x D)	26 1/16 x 15 1/8 x 31 11/16 inches (740 x 430 x 900 mm)		
Weight	Approx. 187.23 lb. (85 kg)		
Input/Output			
Input A	Open for optional signal interface boards		
Input B	Open for optional signal interface boards		
Input C	Open for optional signal interface boards		
Input D	Open for optional signal interface boards		
Remote interface	D-sub 9-pin (female) x 1, Ethernet terminal x 1		
Input boards			
LKRI-001 Analog input board	BNC x 5, HD/SD analog input, RGB/Y · Pb · Pr/Y · R-Y · B-Y selectable		
	Standard Definition [RGB]		
	R	0.7 Vp-p ±2 dB positive, 75 Ω	
	G	0.7 Vp-p ±2 dB positive, 75 Ω	
	B	0.7 Vp-p ±2 dB positive, 75 Ω	
	G with sync	1.0 Vp-p ±2 dB sync negative, 75 Ω	
	Standard Definition [Y · R-Y · B-Y]		
	Y	1.0 Vp-p ±2 dB sync negative, 75 Ω	
	R-Y	0.7 Vp-p ±2 dB positive, 75 Ω	
	B-Y	0.7 Vp-p ±2 dB positive, 75 Ω	
	High Definition [RGB]		
	R	0.7 Vp-p ±2 dB positive, 75 Ω	
	G with sync	1.0 Vp-p ±2 dB, 75 Ω Tri-level sync: ±0.3 Vp-p / Bi-level sync: 0.3 Vp-p	
	B	0.7 Vp-p ±2 dB positive, 75 Ω	
	High Definition [Y · Pb · Pr]		
	Y	1.0 Vp-p ±2 dB positive, 75Ω Tri-level sync: ±0.3 Vp-p / Bi-level sync: 0.3 Vp-p	
	Pb	±0.35 Vp-p ±2 dB positive, 75 Ω	
	Pr	±0.35 Vp-p ±2 dB positive, 75 Ω	
	Sync		
	Composite sync	0.6 to 8.0 Vp-p, high impedance, sync positive/negative	
	HD Horizontal sync	0.6 to 8.0 Vp-p, high impedance, sync positive/negative	
	HD Vertical sync	0.6 to 8.0 Vp-p, high impedance, sync positive/negative	
LKRI-002 HDSDI input board	BNC x 4, HD-SDI/Dual-link HD-SDI selectable SMPTE-292M/BTA-S004/ITU-R BT.709/SMPTE 372M		
Safety regulations	UL60950 listed, cUL60950, FCC Class A, IC Class A, VCCI Class A, EN60950, CE Class A, C-tick, GB4943, GB9254, K60950, CISPR22, CISPR24		
Supplied accessories	Remote controller x 1 CD-ROM x 1 (Remote control software application for Windows® PC) Dry cell (AA size) x 2 AC power cord x 1 Operation instructions x 1 Installation manual x 1		
Optional accessories	LKRL-Z115: 1.5x zoom lens LKRL-Z120: 2.0x zoom lens LKRL-Z125: 2.5x zoom lens LKRL-Z140: 4.0x zoom lens LKRI-001: Analog input board LKRI-002: HD-SDI input board LKRI-003: 4K base-band interface board (tentative) LKRX-105: 1 kW Xenon lamp bulb for replacement LKRX-B105: 1 kW Xenon lamp house unit for replacement LKRX-110: 2 kW Xenon lamp bulb for replacement LKRX-B110: 2 kW Xenon lamp house unit for replacement RCC-5G/10G/30G: 9-pin remote cable for RS-422A		

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