



NC-2424M/NC-2024M/NC-1824M Laser Projectors

Digital Cinema Projector Series

DCI-compliant laser light source projector

The NC-2424M/NC-2024M/NC-1824M features a built-in laser light source and is the ideal digital cinema projection solution for theaters with mid-sized screens or projection booths that are looking for high-quality cinema projection. This projector's reliability, maintenance-free operation and approximately 50,000* hours of lifetime result in an overall lower total cost of ownership. The 2K DCI-compliant cinema quality means an outstanding image that is bright enough to display 14 ft-L on screens up to 72.0 ft./22m** in DCI color.



Delivering Genuine Benefits

- Maintenance-free operation for a long period of time with approximately 50,000* hours expected usage of the light source and DMD
 - Higher reliability
 - Lower running cost due to savings of:
 - (a) No lamp replacement
 - (b) No maintenance labor
 - (c) No need of Stocking Lamps
- Play captivating 3D content - take your establishment into the next generation and stay ahead of the competition with the latest digital content, an increasingly essential element of the latest movies and media
- Highly flexible - as no exhaust system is required, the NC-2424M, NC-2024M, and NC-1824M are suitable for floor and ceiling installation and versatile content playback

Outstanding Performance

Steady and reliable operation with lowered risk of black screen - Minimal downtime with the modular Laser Light Source.

- Longevity and lower maintenance provide for greater customer satisfaction with the introduction of the laser light source NC-2424M/NC-2024M/NC-1824M projector.
- Enjoy lower TCO - up to 50,000* hours of lifetime keeps costs to a minimum. You can enjoy better quality imaging while experiencing an overall lower cost of ownership. Brightness decreases in a linear fashion resulting in consistent image quality and greater satisfaction for your customers.
- RB laser (NC2403ML/NC2003ML) system features red and blue lasers paired with phosphor to produce a rich color spectrum with unsurpassed brightness for the ultimate cinema experience.

Super Dust Protection

- Sharp's unique cooling system includes separate independent cooling sections for dust protection in both the optical engine and light source offering the best overall performance while providing theatre owners piece of mind

*The life time may vary depending upon environmental conditions and does not constitute the warranty period.

** Assuming 1.8:1 gain screen

UNIQUE FEATURES

MINIMAL MAINTENANCE Operation for approximately 50,000* (under normal usage conditions) hours with long life of the light source.

SIMPLE OPERATION One touch operation, ergonomic keyboard layout and memory functions.

MANY LENS OPTIONS for easy installation.

HIGH FRAME RATE (HFR) CAPABILITY for outstanding picture quality.

ACCESSORIES

Optional Lenses NC-12ZSB1, NC-14ZSB1, NC-16ZSB1
NC-24ZSB1

ORDERING MODEL NUMBERS

NC-2424M

NC-2024M

NC-1824M



Model Number			NC-2424M	NC-2024M	NC-1824M
OPTICAL	Projection Method		3-chip DMD reflection method (DLP Light Engine)		
	Light Source		RB Laser Light Source		B Laser Light Source
	DMD Specifications		0.98" DMD chip, DC mini 2K		
	Resolution	Native	2048 x 1080		
	Brightness (Lumens)		24,000	20,000	18,000
	Light Source Life (up to)		50,000* hours		
	Supported Screen Size (width)***		Up to 72 ft. / 22m	Up to 65.6 ft. / 20m	Up to 62.3 ft. / 19m
	Throw Ratio	NC-12ZSB1	1.20 to 1.80:1 zoom		
		NC-14ZSB1	1.40 to 2.05:1 zoom		
		NC-16ZSB1	1.59 to 2.53:1 zoom		
		NC-24ZSB1	2.40 to 3.90:1 zoom		
	Projection Distance		2.9 - 35.9 ft. / 0.9 - 10.9 m		
	Tilt Angle		+/- 15° (Up / Down)		
	Zoom		Motorized		
	Focus		Motorized		
F-number, f-number	NC-12ZSB1	F=2.5, f= 26.7 - 40.5mm			
	NC-14ZSB1	F=2.5, f= 31.2 - 45.6mm			
	NC-16ZSB1	F=2.5, f= 35.4 - 56.4mm			
	NC-24ZSB1	F=2.5, f= 52.4 - 85.3mm			
Lens Shift**		+/-23% Vertical, +/-7% Horizontal			
Cooling Method		Liquid cooling inside, air cooling with dust-preventing electrostatic filter			
CONNECTIVITY	External Control	Projector	1 × GPIO (3D) (D-sub 15 pin female); 1 × GPIO (D-sub 37 pin female); 1 X USB Type-A, 1 × RJ45 100Base-T, 1 X D-SUB 9-pin female-RS232C compliant		
ELECTRICAL	Power Requirements		100 – 240V AC, 50/60Hz Single Phase for Projector head 220 - 240V AC, 50/60Hz Single Phase for Light source		
	Input Current		18.1A	18.1A	18.1A
	Power Consumption		3070	2792	2988
	Heat Load (max. power)		10475	9526	10195
	MECHANICAL				
	Product Dimensions (WxDxH)****		27.4 x 43.1 x 20.1 in. (697 x 1095 x 510mm)		
	Net Weight		330.8 lbs. / 150 kg Excluding lens		310.9 lbs. / 141 kg Excluding lens
	Shipping Dimensions (WxDxH)		36.5 x 62.6 x 35.0 in. (926 x 1590 x 888 mm)		
	Gross Weight		600 lbs. (272 kg)		580 lbs. (263 kg)
Fan Noise		50dB			
ENVIRONMENTAL	Operating	Temperature	50-96°F / 10-35°C		
		Humidity	10 to 85% Humidity (Non-Condensing)		
		Altitude	0 to 3000 m (9,800 ft)		
	Storage	Temperature	14-122°F / -10 50°C		
		Humidity	10% - 85% (non-condensing)		
		Altitude	0-12,000m / 0-39,370ft (above sea level)		
REGULATIONS	USA		UL60950-1, FCC Part15 ClassA (Marking: UL)		
	Canada		CAN/CSA C22.2, ICES-003 ClassA (Marking CAN ICES-3(A)/NMB-3(A))		
	Latin America		EN60950-1, EN55022 Class A, EN55032 CLASS A, EN55024, EN61000-3-2/-3-3/-11/-12 (Marking CE)		
	Laser Safety*****	USA	FDA 21 CFR 1040.10 and 1040.11, *Risk Group 3 according to Laser Notice 50		
		Others	IEC60825-1 Ed3 2014 Class1, IEC62471-5 Risk Group3		
Limited Warranty		Registered owners receive a 3-year limited warranty.			

* The lifetime may vary depending upon environmental conditions and does not constitute the warranty period.

** Lens Shift slightly varies depending on each lens.

*** Screen width may vary depending upon environmental conditions.

**** Without protrusions.

***** This product complies with performance standards for laser products under 21 CFR Part 1040 except with respect to those characteristics authorized by Variance Number 2015-V-3435 effective on April 7, 2016.

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