

SHARP

NC2443ML/NC2043ML/NC1843ML 4K Laser Projectors Digital Cinema Projector Series

DCI-compliant laser light source projector

The NC2443ML/NC2043ML/NC1843ML 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 4K 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.



The NC2443ML/NC2043ML/NC1843ML

- offers exhibitors an affordable and flexible new cinema projection solution thanks to its interchangeable laser light sources in the projector head for the ultimate in versatility and future-proofing
 - Higher reliability
 - Lower running cost due to savings of:
 - (a) No lamp replacement
 - (b) No maintenance labor
 - (c) No need of Stocking Lamps
- Redundancy and virtually maintenance free
Quick laser replacement with easy slide-in for emergency -15 minutes!
Exhibitors can minimize downtime if the laser light source needs to be changed
- Modular Light Source
Exhibitors have the ability to protect their investment by being able to display different content for different sized auditoriums using the same projector with either of the two swappable laser light modules (24,000, 20,000 and 18,000 lumens).
- Flexible installation
The interchangeable laser light module can be purchased separately or leased for even more flexibility
- Highly flexible - as no exhaust system is required, the NC2443ML/NC2043ML/NC1843ML is suitable for floor and ceiling installation and versatile content playback
- Optimize cost of ownership
Take advantage of new financing structures: lease laser light engine and only pay for the light exhibitors use

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 NC2443ML/NC2043ML/NC1843ML 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 (NC2443ML/NC2043ML) 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

- NEC'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

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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, keypad layout and memory functions.

MANY LENS OPTIONS for easy installation.

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

ACCESSORIES

Optional Lenses
NC-60LS12Z, NC-60LS14Z, NC-60LS16Z,
NC-60LS19Z, NC-60LS24Z, NC-60LS39Z

ORDERING MODEL NUMBERS

NP-NC2443ML: Laser light module built-in projector
NP-NC2043ML: Laser light module built-in projector
NP-NC1843ML: Laser light module built-in projector
NP-42HD: Projector head without laser light module
NP-24LU03: 24,000 lm laser light module
NP-20LU03: 20,000 lm laser light module
NP-18LU03: 18,000 lm laser light module



Model Number			NP-NC2443ML	NP-NC2043ML	NP-NC1843ML
OPTICAL	Projection Method		3-Chip DLP Cinema		
	Light Source		RB Laser Light Source		B Laser Light Source
	DMD Specifications		0.98" 4K		
	Resolution	Native	4096 x 2160		
	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
		NC-60LS12Z	1.20 to 1.80:1 zoom		
		NC-60LS14Z	1.40 to 2.05:1 zoom		
		NC-60LS16Z	1.59 to 2.53:1 zoom		
		NC-60LS19Z	1.90 to 3.25:1 zoom		
		NC-60LS24Z	2.40 to 3.90:1 zoom		
		NC-60LS39Z	3.90 to 6.52:1 zoom		
	Tilt Angle		+/- 15° (Up / Down)		
	Zoom		Motorized		
	Focus		Motorized		
		Optional Lenses	NC-60LS12Z	F=2.5, f= 26.7 - 40.5mm	
NC-60LS14Z			F=2.5, f= 31.2 - 45.6mm		
NC-60LS16Z			F=2.5, f= 35.4 - 56.4mm		
NC-60LS19Z			F=2.5, f= 41.6 - 71.1mm		
NC-60LS24Z			F=2.5, f= 52.4 - 85.3mm		
NC-60LS39Z			F=2.5, f= 84.9 - 142.0mm		
Lens Shift**		+/-23% Vertical, +/-7% Horizontal			
Cooling Method		Liquid cooling inside, air cooling with dust-preventing			
CONNECTIVITY	Terminals		1 × GPIO (D-sub 37 pin female); 1 X USB Type-A, 1 × RJ45 1000Base-T, 1 X D-SUB 9-pin female-RS232C compliant 1x IMB Slot(Series2 IMB compatible)		
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		19.1A	19.1A	19.1A
	Power Consumption		3182	2947	3146
	Heat Load (max. power)		10,857 BTU	10,056 BTU	10735 BTU
MECHANICAL	Product Dimensions (WxDxH)****		27.4 x 43.1 x 20.1 in. (697 x 1095 x 510mm)		
	Net Weight		337 lbs. / 153 kg Excluding lens		317 lbs. / 144 kg Excluding lens
	Shipping Dimensions (WxDxH)		36.5 x 62.6 x 35.0 in. (926 x 1590 x 888 mm)		
	Gross Weight		584 lbs. (265 kg)		564 lbs. (256 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	0-9,144m / 0-30,000ft (above sea level)		
Regulations	USA		UL60950-1, 2nd Edition, 2014 / UL62368-1, 2nd Edition/ FCC Part15 Class A (ANSI C63.4.2014) (Marking: UL)		
	Canada		CAN/CSA C22.2, Np.60950-1-07, 2nd Edition, 2014, / ICES-003 Is-sue6 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/-3-11/-3-12 (Marking CE)		
	Laser Safety*****	USA	IEC60825-1 Ed.3:2014 Class 1, IEC62471-5 :2015 Risk Group 3, Laser Notice No. 57		
		Others	IEC60825-1 Ed.3:2014 Class 1, IEC62471-5 :2015 Risk Group 3		
Limited Warranty (Parts & Labor)			Registered owners receive a 2-year parts and labor 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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