

Digital Cinema Projector Series

NC2443ML 4K Laser Projector

DCI-compliant laser light source projector

The NC2443ML 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.

Epoch-making newly designed laser light module

- The NC2443ML 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
 - At 24,000 lumens exhibitors can protect their investment by being able to display
- different content for different sized auditoriums with the same projector.
- 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 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 without any risk of black screen -No downtime while exhibition of contents with Laser Light Source, with which brightness may slightly decrease
- Longevity and lower maintenance provide for greater customer satisfaction with the introduction of the laser light source NC2443ML 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) 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

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-42HD : Projector head without laser light module
 NP-24LU03 : 24,000 lm laser light module



MODEL		NC2443ML	
OPTICAL	Projection Method	3-Chip DLP Cinema	
	Light Source	RB Laser Light Source	
	DMD Specifications	0.98" 4K	
	Resolution	Native 4096 x 2160	
	Contrast Ratio	2,000:1	
	Brightness (Lumens)	24,000	
	Light Source Life (up to)	50,000* hours	
	Supported Screen Size (width)***	Up to 72 ft. / 22m	
	Optional Lenses	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 x GPIO (3D) (D-sub 15 pin female); 1 x GPIO (D-sub 37 pin female); 1 X USB Type-A, 1 x 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	
	Power Consumption	3182W	
	Heat Load (max. power)	10,857 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	
	Shipping Dimensions (WxDxH)	36.5 x 62.6 x 35.0 in. (926 x 1590 x 888 mm)	
	Gross Weight	584 lbs. (265 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 Issue6 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	
IMS (NP-90MS02-4K)		Integrated Media Server: 2 TB (DCP, RAID5) Integrated SMS Full HFR 3D Support (48 Hz/eye, 60 Hz/eye) NAS Support	

* 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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