Digital Cinema Projector Series

NC1803ML Laser Projector

DCI-compliant laser light source projector

The NC1803ML 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 63.3 ft./19m** in DCI color.

Newly designed laser light module

- The NC1803ML 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
  With a (18000 lumens) laser light module, 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 NC1803ML 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 NC1803ML 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.
- B laser system features blue lasers paired with yellow 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, 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-60LS12Z, NC-60LS14Z, NC-60LS16Z,
NC-60LS19Z, NC-60LS24Z, NC-60LS39Z

ORDERING MODEL NUMBERS

NP-NC1803ML: Laser light module built-in projector
NP-02HD: Projector head without laser light module
NP-18LU03: 18,000 lm laser light module

		NC1803ML
OPTICAL		
Projection Method		3-chip DMD reflection method (DLP Light Engine)
Light Source		B Laser Light Source
DMD Specifications		0.98" DMD chip, DC mini 2K
Resolution	Native	2048 x 1080
Contrast Ratio		2,000:1
Brightness (Lumens)		18,000
Light Source Life (up to)		50,000*hours
Supported Screen Size (width)***		Up to 62.3 ft. / 19m
Throw Ratio	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
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-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 electrostatic filter
CONNECTIVITY with Required IMS		
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
Power Consumption		2898W
Heat Load (max. power)		10,195BTU
MECHANICAL		
Product Dimensions (WxDxH)****		27.4 x 52.6 x 20.1 in. (697 x 1337 x 510mm)
Net Weight		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		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/-3-11/-3-12 (Marking CE)
Laser Safety*****	USA	IEC60825-1 Ed.3:2014 Class 1, IEC62471:2006 Risk Group 3
	Others	IEC60825-1 Ed3:2014 Class1, IEC62471-5 Ed1:2015 Risk Group3
Limited Warranty (Parts & Labor)		Registered owners receive a 2-year parts and labor warranty
Model Number		NC1803ML

* 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.