

# NC1700L Laser Projector

## Digital Cinema Projector Series

### DCI-compliant laser light source projector

The NC1700L features a built-in laser light source and is the ideal digital cinema projection solution for theaters with small and mid-sized screens or projection booths that are looking for high-quality cinema projection. This projector's reliability, maintenance-free operation and approximately 30,000\* 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 55.8 ft./17m\*\* in DCI color.



DIGITAL  
PICTURE BY  
**DLP**  
CINEMA  
TEXAS INSTRUMENTS

### Delivering Genuine Benefits

- Maintenance-free operation for a long period of time with approximately 30,000\* 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 NC1700L is suitable for floor and ceiling installation and versatile content playback

### 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 NC1700L projector.
- Enjoy lower TCO - up to 30,000\* 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 system features red and blue lasers paired with green 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

\*30,000hours @50% decrease from initial laser power@90%  
20,000hours @50% decrease from initial laser power @100%  
The life time may vary depending upon environmental conditions.

\*\* Assuming 1.8:1 gain screen

## UNIQUE FEATURES

**MINIMAL MAINTENANCE** Operation for approximately 30,000\* 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.

### NEC INTEGRATED MEDIA SERVER (IMS) (Optional)

As trouble free one-stop solution.

## ACCESSORIES

### Optional Lenses

NP-9LS12ZM1, NP-9LS13ZM1, NP-9LS16ZM1  
NP-9LS20ZM1, NP-9LS40ZM1

### Integrated Media Server

NP-90MS02-4K

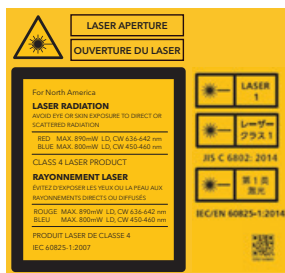
## ORDERING MODEL NUMBERS

- NP-NC1700L-BNDL  
1) Projector : NP-NC1700L  
2) Chiller : NP-17CU01  
3) Coolant for Chiller:NP-17AL01



This product has been equipped with a laser module and is classified as Class 4 of IEC60825-1 Edition2 2007 in USA  
LASER RADIATION –AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

This product has been equipped with a laser module and is classified as Class1 of IEC60825-1 Edition3 2014 and RG3 of IEC62471-5 Edition1 2015 in other territories.  
DO NOT LOOK DIRECTLY INTO THE BEAM.



\* This life time may vary depending upon environmental conditions

\*\* Without protrusions

		NC1700L
Optical		
Projection Method		3-chip DMD reflection method (DLP light Engine)
Light Source		Laser light source
Throw Ratio	NP-9LS12ZM1 w/lens memory	1.2 - 1.72:1
	NP-9LS13ZM1 w/lens memory	1.33 - 2.1:1
	NP-9LS16ZM1 w/lens memory	1.62 - 2.7:1
	NP-9LS20ZM1 w/lens memory	2.09 - 3.9:1
	NP-9LS40ZM1 w/lens memory	4.07 - 6.34
Lens Zoom / Focus		Motorized
F-number, f-number	NP-9LS12ZM1 w/lens memory	F=2.5, f= 18.6 - 26.7mm
	NP-9LS13ZM1 w/lens memory	F=2.5, f= 20.7 - 32.7mm
	NP-9LS16ZM1 w/lens memory	F=2.5, f= 25.2 - 42mm
	NP-9LS20ZM1 w/lens memory	F=2.5, f= 32.2 - 60.3mm
	NP-9LS40ZM1 w/lens memory	F=2.5, f= 62.1 - 97.8mm
Lens Shift		NP-9LS40ZM1 (motorized) -0.5 to +0.55 Vertical, +/- 0.11 Horizontal; ZM1 Series (motorized) -0.5 to +0.5 Vertical, +/-0.11 Horizontal
Resolution		2048 x 1080
Supported Screen Size (max)		Up to 55.8 ft/17m @ 14ft-L in DCI color (1.8 gain screen)
Tilt Angle		+10 to -15
Contrast Ratio		1750:1
Cooling Method	Projector	Air Cooled
	Laser/Phosphor	Liquid Cooled with external chiller
DMD Specifications		0.69" DMD chip
CONNECTIVITY with Required IMS		
Input Terminals	IMS	HDMI, 2 x 3GSDI, 1 x USB2, 2 x USB3, 1 x eSATA
Output Terminals (IMS)		2 x RJ45 (16-channel AES3-EBU Digital Audio) / 24 bits up to 96 KHz
External Control	IMS	1 x RJ45 (4 x GPI), 1 x RJ45 (6 x GPO) / 2 x RJ45, Gigabit Ethernet
	Projector	1xRJ45 100BASE-T / 1xSERIAL RS232C compliant(D-SUB 9pin female) / 1xGPIO (D-sub 37 pin female) / 1xGPIO (3D) (D-sub 15 pin female)
ELECTRICAL		
Power Requirements	Projector	220 - 240V AC, 50/60Hz Single Phase
	Chiller	200 - 240V AC, 50Hz Single Phase 220 - 240V AC, 60Hz Single Phase
Input Current	Projector	10.7A @ 200V AC
	Chiller	9.2A @ 200V AC at 50Hz 10.3A @ 220V AC at 60Hz
Power Consumption	Projector	1945W
	Chiller	1925W
MECHANICAL		
External Dimensions** (W x D x H)	Projector	27.56 x 36.61 x 12.83 in. / 700 x 930 x 326mm
	Chiller	27.56 x 25.59 x 22.64 in. / 700 x 650 x 575mm
Weight	Projector	151.0 lbs. / 68.5 kg
	Chiller	238.0 lbs. / 108.0 kg
Fan Noise	Projector	55dB
	Chiller	60dB
ENVIRONMENTAL		
Operating Temperature		50° - 95°F / 10° - 35°C
Humidity		10-85% non-condensing
Storage		14° - 122°F / 10° - 50°C
REGULATIONS		
U.S.	Projector	UL60950-1 / FCC Part15 Class A (Marking: UL)
	Chiller	UL1995 (Marking cTUVus)
Canada	Projector	CSA60950-1 / ICES-003 Class A (Marking: C-UL, DoC of Canada)
	Chiller	CSA-C22.2 No.236 (Marking cTUVus)
Latin America	Projector	IEC60950-1 / EN55022 Class A/EN55024/EN61000-3-2/ 3-3
	Chiller	IEC 60335-2-40/AMD 1 with IEC60335-1/AMD 1
Laser Safety	USA	IEC60825-1 Edition2 2007 : Class4 (*1) FDA(21 CFR 1040.10 and 1040.11)
	Others	IEC60825-1 Edition3 2014: Class1(*2) IEC62471-5 Edition1 2015: RG3(*2)
	Limited Warranty (parts & labor)	Registered owners receive a 2-year parts and labor warranty
IMS (NP-90MS02-4K)		Integrated Media Server: 2TB Integrated SMS Full HFR 3D Support (48 Hz/eye, 60 Hz/eye)

## Sharp NEC Display Solutions of America

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