

NEC NC1503L Cinema RB Laser Projector

Datasheet



Quietest projection performance for mid-sized screens

With the latest RB Laser light source technology which is almost entirely speckle-free, the NC1503L digital cinema projector can be used with a high gain screen, impressing audiences with exceptional brightness and premium quality imaging.

Highly flexible, without the need for a special exhaust system, the projector is easy to install and suitable for ceiling, floor or mobile applications in mid-sized theatres with screen sizes of up to 17m wide.

With maintenance-free operation including protection against dust ingress and a low, eco-friendly power consumption, theatre operators benefit from a reduced overall total cost of ownership (TCO) and therefore achieve a greater per seat revenue.

Treat your movie-goers to next generation digital cinema projection for immersive, out-of-this-world motion picture experiences.

Benefits

Compact, lightweight and quiet – easy installation in small projection booths, easy transportation for mobile cinemas and perfectly suited for boothless cinemas.

Sealed optical engine – minimising dust ingress, consistent performance is assured and no special maintenance is required.

Highly flexible – with no exhaust system required, the NC1503L is suitable for floor and ceiling installation and versatile content playback.

Virtually zero maintenance – no lamp and no filter replacement costs, no maintenance personnel costs and no lamp stock due to the innovative Laser Light engine.

Enjoy a Lower TCO – highest reliability, maintenance-free operation, low power consumption and up to 50000 hours life; the Laser light source results in a significantly lower total cost of ownership.

Product Information

Product Name	NEC NC1503L
Product Group	Cinema RB Laser Projector
Order Code	NP-NC1503L

Optical

Projection Method	3-chip DLP Cinema® Technology
Screen Size [m]	up to 17 in DCI colour (1.8 Gain screen)
Brightness	14000 Lumen
Contrast Ratio	1600:1
Light Source	Laser Light Source, expected life: up to 50000 h ¹
Lens	Zoom / Focus / Shift: Motorized Other: Range of shift is dependent on lens Primary Lenses: NP-9LS12ZM1: 1.2-1.72:1; NP-9LS13ZM1: 1.33-2.1:1; NP-9LS16ZM1: 1.62-2.7:1; NP-9LS20ZM1: 2.09-3.9:1
DMD Specifications	2048 x 1080 Chip: 0.69" S2K, DLP Cinema® Technology
Cooling Method	Liquid: Air and liquid cooling inside

Connectivity Projector

External Controls	1 x GPIO (3D) (D-sub 15 pin female); 1 x GPIO (D-sub 37 pin female); 1 x RJ45 100Base-T
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Environmental Conditions

Operating Temperature [°C]	10 to 35
Operating Humidity [%]	10 to 85 - non-condensing
Storage Temperature [°C]	-10 to 50
Storage Humidity [%]	10 to 85 - non-condensing

Electrical

Power Supply	Built-in power supply Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase
Rated Input Current	Projector power: 10.5A @ 200V-240V
Power Consumption [W]	1835 typ.
Heat Dissipation (BTU)	6268 typ.

Mechanical

External Dimensions (W x H x D) [mm]	700 x 288 x 812 (without lens and protrusions)
Weight [kg]	68 (without lens)
Fan Noise [dB (A)]	< 50

Additional Features

Special Characteristics	Built-in IMS (IMS3000, optional); Compact model; Dust sealed optical engine; Full HFR 3D support; Laser Light System; Latest digital technology; Low TCO; Metal filter
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Green Features

Ecological Materials	Laser technology reduces power usage and reduces replacement materials required
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Interfaces: Dolby IMS3000 (optional)

External Controls	2 x RJ45 (4 GPI and 6 GPO); 2 x RJ45 Gigabit Ethernet
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Input Terminals	1 x USB Type 2.0; 2 x 3GSDI bidirectional (input and output); 2 x USB Type 3.0; eSATA; HDMI
Output Terminals	2 x RJ45 (16-channel AES3-EBU Digital Audio)
Additional Features	HFR 3D Support (48 Hz/eye, 60 Hz/eye); Integrated SMS; Integrated Storage: 2 TB (DCP, RAID5); NAS support
Manufacturer	Dolby (The Dolby IMS3000 is not a NEC product. NEC shall not in any way be liable for any product specifications).

Regulations

Europe	IEC 62368-1:2014 2nd Edition, IEC 62368-1:2018 3rd Edition, IEC 62471-5:2015, IEC 60825-1:2014 Ed.3, EN 55032:2015, (Marking RCM)
Laser / Lamp standard	IEC60825-1 Ed.3:2014 Class 1, IEC62471-5 :2015 Risk Group 3, Laser Notice No. 57

Warranty

Warranty	2 years, parts warranty
Light Source	2 years or 7500h (whatever comes first)

¹ 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature, under normal usage condition, not covered by standard warranty

* This product has been equipped with a laser module and is classified as Class1 of IEC60825-1 Ed3 2014 and is classified as RG3 of IEC62471-5 Ed1 2015.

DO NOT LOOK DIRECTLY INTO THE BEAM.

For more information:

 www.sharp.net.au



VisualSolutions@sharp.net.au



[1300 135 022](tel:1300135022)

SHARP CORPORATION OF AUSTRALIA PTY LTD, P.O. Box 84, Macquarie Park, NSW, 2113: ABN 40 003 039 405

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