

NEC NC603L
Cinema Laser Projector

Datasheet



Silent, sealed, sustainable

The NC603L digital cinema projector guarantees highest efficiency with the latest generation laser technology. Furthermore, its low noise level of less than 39dB makes it the quietest in its category and perfectly suited for boothless cinemas.

The projector is easy to install and suitable for ceiling, floor or mobile applications in smaller theatres with screen sizes of up to 11m wide, making it highly flexible.

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.

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 NC603L 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 NC603L
Product Group	Cinema Laser Projector
Order Code	NP-NC603L

Optical

Projection Method	3-chip DLP Cinema® Technology
Screen Size [m]	up to 11 in DCI colour (1.8 Gain screen)
Brightness	6000 Lumen
Contrast Ratio	1650:1
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	Circulating air cooling system

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: 7.4A @ 200V-240V
Power Consumption [W]	890 typ.
Heat Dissipation (BTU)	3037 typ.

Mechanical

External Dimensions (W x H x D) [mm]	680 x 333 x 860 (without lens and protrusions)
Weight [kg]	59 (without lens)
Fan Noise [dB (A)]	< 39

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

Oceania	IEC62368-1:3rd Edition, EN 55032:2015, (Marking RCM)
Laser / Lamp standard	IEC60825-1 Ed3 2014 Class1, IEC62471-5 Risk Group3

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.

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