

NEC NC1402L Cinema Laser Projector

Datasheet



Quietest projection performance for mid-sized screens

Built upon the latest Laser light source technology, the NC1402L digital cinema projector impresses audiences with crisp colours and premium quality imaging. At just 49dB in operation, the almost silent projector supports boothless cinema solutions.

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 14m 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 NC1402L 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

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|---------------|------------------------|
| Product Name | NEC NC1402L |
| Product Group | Cinema Laser Projector |
| Order Code | NP-NC1402L |

Optical

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|--------------------|---|
| Projection Method | 3-chip DLP Cinema® Technology |
| Screen Size [m] | up to 14 in DCI colour (1.8 Gain screen) |
| 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

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| 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

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|----------------------------|---------------------------|
| 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

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|------------------------|---|
| Power Supply | Built-in power supply Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase |
| Rated Input Current | Projector power: 9.5A @ 200V-240V |
| Power Consumption [W] | 1500 max. |
| Heat Dissipation (BTU) | 5118 max. |

Mechanical

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| External Dimensions (W x H x D) [mm] | 700 x 288 x 812 (without lens and protrusions) |
| Weight [kg] | 69 (without lens) |
| Fan Noise [dB (A)] | < 48 |

Additional Features

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|-------------------------|--|
| 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

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

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|-------------------|---|
| External Controls | 2 x RJ45 (4 GPI and 6 GPO); 2 x RJ45 Gigabit Ethernet |
| Input Terminals | 1 x USB Type 2.0; 2 x 3GSDI bidirectional (input and output); 2 x USB Type 3.0; eSATA; HDMI |

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|---------------------|--|
| 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

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|-------------------------|---|
| Australia / New Zealand | AS / NZS62368.1, AS / NZS CISPR 32 ClassA (Marking: RCM) |
| Laser / Lamp standard | IEC60825-1 Ed3 : 2014 Class1, IEC62471-5 Ed1 : 2015 Risk Group3 |

Warranty

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|--------------|---|
| 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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