

NC1440L Laser Projector

Datasheet



The future starts now with the new NEC NC1440L 4K RGB laser projector. Delivering outstanding resolution and for the first time on any projection system, colours beyond the DCI or Adobe RGB specifications.

Your pictures will appear more vibrant and stunning than ever before, thanks to the increased colour gamut of the laser. Pictures will appear in more detail, due to the 4K resolution and the accuracy of the RGB laser light.

The NEC NC1440L is a premium solution for Cinemas, Post Production, Rental/Staging, Virtual Reality and Industrial Design.

Benefits

Enjoy a Lower TCO – highest reliability, maintenance free operation, low power consumption and up to 20000 hours life; the Laser light source results in a significantly lower total cost of ownership.

Flexible Installation – the small projector head connected by a fibre tube to the laser source offers maximum flexibility as it can be positioned independently from the light source.

Premium Solution with the light source of the future – for creation of outstanding images on screens up to 13.5 m.

4K Resolution – with the latest Media and 4K DLP® Cinema Technology from Texas Instruments. This projector faithfully reproduces Digital Cinema and 4K high-definition input sources requiring superior colour reproduction by utilising the wider colour gamut of the Laser Light Source.

Highest Picture Quality – full 4K resolution (4096 x 2160 pixel) and an unrivalled colour space delivers unprecedented image quality facilitating both distance and proximity viewing in the most demanding Cinema, Graphics or Theme Park applications.

High reliability – the Solid Light Source provides up to 20000 hours of expected life, delivering adjustable brightness levels over a long period of time without any lamp exchange.

Product Information

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|---------------|-----------------|
| Product Name | NC1440L |
| Product Group | Laser Projector |
| Order Code | 60003664 |

Optical

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|--------------------|--|
| Projection Method | 3-chip DMD reflection method |
| Screen Size [m] | up to 13.5 in DCI colour (1.8 Gain screen) |
| Brightness | 10000 Lumen by using two Laser Source modules |
| Contrast Ratio | 2000:1 (full on/off) |
| Lamp | Lamp free design; Laser Light Source, Expected Life: 20000 h ¹ |
| Lens | Zoom / Focus / Shift: Motorized Shift: Horizontal/Vertical Motorized Other: Dowser (light shutter); Lens memory stores lens setting (shift/zoom/focus); Range of shift is dependent on lens Primary Lenses: 1.13 to 1.66:1 zoom; 1.3 to 1.85:1 zoom; 1.44 to 2.16:1 zoom; 1.63 to 2.71:1 zoom; 1.95 to 3.26:1 zoom; 2.71 to 3.89:1 zoom |
| Light Source | External Laser Light source connected by 2m (or 12m as option) fiber tube |
| DMD Specifications | 4096 x 2160 Chip: 1.38" DLP Tilt Angle [°]: 12 |
| Cooling Method | Liquid: Cooling inside, air cooling with dust-preventing electrostatic filter |

Connectivity

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|-------------------|---|
| External Controls | 1 x D-Sub 37 pin (GPIO); 1 x D-Sub 15-pin (3D); 1 x D-Sub 9 pin (RS-232); 1 x D-Sub 9-pin; 1 x Remote control connector; 1 x RJ45; 1 x USB port (TypeA) |
| Input Terminals | 2 x DVI-D (optional); 3 x USB; 4 x 3GSDI (BNC) (optional) |

Electrical

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|-----------------------|--|
| Power Supply | Projector Power Supply Unit: 100 to 240V AC, 50/60Hz, single phase Laser Unit: 200 to 240V, 50/60Hz, single phase |
| Power Consumption [W] | Projector Power: 400 Laser Module Power: 2x 1300 typ. |

Environmental Conditions

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|----------------------------|---------------------------------|
| Operating Temperature [°C] | 10 to 35; Recommended: 10 to 25 |
| Operating Humidity [%] | 10 to 85 - non-condensing |
| Storage Temperature [°C] | -10 to 50 |

Mechanical

| | |
|--------------------------------------|---|
| External Dimensions (W x H x D) [mm] | Projector Head ² : 666 x 364 x 737 Laser module: 780 x 652 x 450 |
| Weight [kg] | Projector Head: 51 Laser module: 2x 73 |
| Fan Noise [dB (A)] | < 54 |
| Regulations Europe | EN55022 1998, Class A; EN55024 1998; EN61000-3-11; EN61000-3-12; EN61000-3-2; EN61000-3-3 |

Additional Features

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|-------------------------|---|
| Special Characteristics | Flexible installation with separated laser source; High 4K resolution; Laser Light System; Low TCO; Up to 20000 h expected life time without lamp exchange; Wide laser colour space |
|-------------------------|---|

Optional Accessories

Optional Accessories 4K SIB input board option; Air filter; IMS option

Warranty

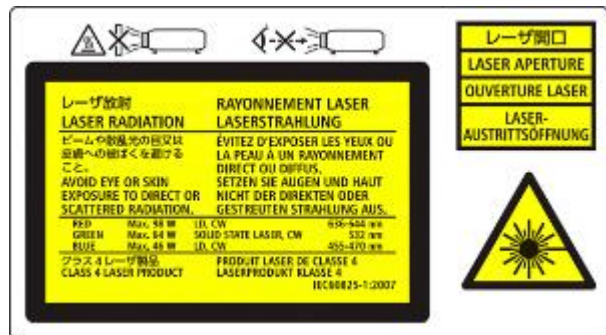
Warranty 2 years, parts warranty

Green Features

Ecological Materials Eliminate waste and landfill implications associated with 35mm media; Laser technology reduces power usage and reduces replacement materials required

¹ 50% of initial brightness at the end of specified laser life time.

² Excluding lens and lens hood



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