

NEC NC3541L 4K Cinema RB Laser Projector

Datasheet



The first RB laser projector for premium and large format screens

With the NEC NC3541L 4K RB laser projector cinemas are taking advantage of both laser phosphor and RGB laser technologies resulting in a powerful projector which delivers compelling benefits in terms of cost, operational efficiency and immersive image quality. The use of a red and blue laser light source goes beyond the colour and brightness output of traditional laser phosphor cinema projection systems providing a brilliant image with high uniformity. The efficient light processing system has a low initial cost compared to RGB laser projectors and delivers huge savings in operational costs compared to Xenon based projection systems by avoiding lamp and filter replacements. Easy and space saving installations are supported through a single solution without external chillers, light sources or the need for exhaust ventilation.

Thanks to the high initial brightness level of 35,000 lumen, this projector is a premium solution for large and premium format cinema screens of up to 32m. It is also ideal for additional non-cinematic screenings such as company presentations or gaming events helping to increase usage and maximise revenue for cinema operators.

Benefits

Enjoy a Lower TCO - highest reliability, maintenance-free operation, low power consumption and up to 40000 hours life; the Laser light source results in a significantly lower total cost of ownership.

Brilliant for every purpose - The brightness output can be individually adjusted to provide crisp images whether enjoying 2D and 3D movie playback.

Big on brightness - the high brightness output of 35000 lumen creates outstanding images on screen sizes of up to 32 m.

Outstanding Picture Quality - full 4K resolution (4096 x 2160 pixel) and wide colour space combined with a homogeneous and contrast-rich laser image quality creates a unique immersive cinema experience.

One box solution - the projector is easy to handle and install as an all-in-one-device solution without the need for an external chiller, external laser light source or external exhaust system.

Product Information

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|---------------|------------------------------|
| Product Name | NEC NC3541L |
| Product Group | 4K Cinema RB Laser Projector |
| Order Code | NP-NC3541L |

Optical

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|--------------------|--|
| Projection Method | 3-chip 1.38" DC4K DMD |
| Screen Size [m] | up to 32 |
| Brightness | 35000 Lumen |
| Contrast Ratio | 2000:1 (full on/off) |
| Light Source | Lamp free design; Laser Light Source, Expected Life: 40000 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; 1.45 to 2.17:1 zoom; 1.63 to 2.71:1 zoom; 1.95 to 3.26:1 zoom; 2.71 to 3.89:1 zoom |
| DMD Specifications | 4096 x 2160 Chip: 1.38" DLP Tilt Angle [°]: 12 |
| Cooling Method | Liquid: Cooling inside, no chiller required |

Connectivity Projector

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| External Controls | 1 x GPIO (3D) (D-sub 15 pin female); 1 x GPIO (D-sub 0 pin female); 1 x RJ45 100Base-T |
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Connectivity IMS

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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 |
| Output Terminals | 2 x RJ45 (16-channel AES3-EBU Digital Audio) |
| Additional Features | Integrated SMS; Integrated Storage: 2 TB (DCP, RAID5); NAS support |

Environmental Conditions

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| Operating Temperature [°C] | 10 to 35 |
| Operating Humidity [%] | 10 to 80 - non-condensing |
| Storage Temperature [°C] | -10 to 50 |

Electrical

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| Power Supply | Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase |
| Power Consumption [W] | 4485 max. |
| Heat Dissipation (BTU) | 15303 max. |

Mechanical

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| External Dimensions (W x H x D) [mm] | 697 x 455 x 1,180 |
| Weight [kg] | 169 (without lens) |
| Fan Noise [dB (A)] | < 55 |

Additional Features

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| Special Characteristics | High 4K resolution; Laser Light System; Low TCO; RB laser light source; Wide laser colour space |
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Green Features

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

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| Oceania | IEC60950-1:2005+A1:2009+A2:2013, IEC62368-1:2nd Edition, AS/NZS CISPR32:2015, (Marking: RCM) |
| Laser/Lamp standard | IEC60825-1 Ed.3:2014 Class 1, IEC62471-5 :2015 Risk Group 3, Laser Notice No. 57 |

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.

* eSATA

* HDMI

* 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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