

NC2041L Laser Projector

Datasheet



The all-in-one RB laser projector for medium sized format screens

With the NEC NC2041L 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 20,000 lumen, this projector is a premium solution for medium-sized and premium format cinema screens of up to 20m. 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

Experience the real magic of cinema – enjoy the most vibrant and stunning colour reproduction for incredibly lifelike scenes thanks to innovative RB (red and blue) laser technology.

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.

Enjoy a Lower TCO – highest reliability, maintenance free operation, low power consumption and up to 30000 hours life; the Laser light source results in a significantly lower total cost of ownership.

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.

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 20000 lumen creates outstanding images on screen sizes of up to 20 m.

Immersive Cinema Experience – take your theatre to the next generation, stay ahead of the competition with premium movie quality and future proof your investment for upcoming cinema trends.

Product Information

Product Name	NC2041L
Product Group	Laser Projector
Order Code	60004090

Optical

Projection Method	3-chip 1.38" DC4K DMD
Screen Size [m]	up to 20
Brightness	20000 Lumen
Contrast Ratio	2000:1 (full on/off)
Lamp	Lamp free design; Laser Light Source, Expected Life: 30000 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

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

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

Electrical

Power Supply	Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase
Power Consumption [W]	2885 max.
Heat Dissipation (BTU)	9844

Environmental Conditions

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

Mechanical

External Dimensions (W x H x D) [mm]	697 x 1,180 x 455
Weight [kg]	144 (without lens)
Fan Noise [dB (A)]	< 53
Regulations Europe	EN55022 1998, Class A; EN55024; EN55024 1998; EN55032 Class A (Marking TUV,CE); EN60950-1; EN61000-3-2; EN61000-3-2/-3-3; EN61000-3-3; IEC60825-1 Ed3 2014; IEC60950-1; IEC60950-1 / EN55022 Class A (Marking EAC); IEC62471-5 Ed1 2015; TÜV-GS
Regulations Russia	EAC; IEC60825-1 Ed3 2014; IEC62471-5 Ed1 2015

Additional Features

Special Characteristics	High 4K resolution; Laser Light System; Low TCO; RB laser light source; Up to 30000 h expected life time without lamp exchange; Wide laser colour space
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Warranty

Warranty	2 years, parts warranty
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Green Features

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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¹ 50% brightness decrease (initial laser power of 90%). The expected life time may vary depending on environmental conditions.

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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