

NEC NC2041L 4K Cinema RB 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

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 40000 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.

Product Information

Product Name	NEC NC2041L
Product Group	4K Cinema RB Laser Projector
Order Code	NP-NC2041L

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)
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

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

Environmental Conditions

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

Electrical

Power Supply	Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase
Power Consumption [W]	2225 max.
Heat Dissipation (BTU)	7592 max.

Mechanical

External Dimensions (W x H x D) [mm]	697 x 455 x 1,180
Weight [kg]	144 (without lens)
Fan Noise [dB (A)]	< 53

Additional Features

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

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

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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