

NEC NC3540LS Laser Projector

Datasheet





The Blockbuster Cinematic experience reaches a whole new level

With the NEC NC3540LS 4K RGB laser projector, cinema is now entering a new era of projection quality. 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. The increased colour gamut and the accuracy of the RGB laser light as well as detail-rich images thanks to the 4K resolution will create an unprecedented cinema experience. Equipped with the latest laser light source technology, cinemas benefit from a highly reliable operation providing both picture brilliance as well as highest operational safety to avoid downtime.

Thanks to the bright light output of 35,000 lumen and even 70,000 lumen when using two units in stacking installation for an outstanding 3D experience, this projector is a premium solution for larger and special Cinema screens, Theme Parks, Rental/Staging, Virtual Reality and Industrial Design.

Benefits

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.

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.

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.

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

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

Product Information

Product Name	NEC NC3540LS	
Product Group	Laser Projector	
Order Code	60004087	

Optical

Projection Method	3-chip DMD reflection method
Screen Size [m]	up to 28 in DCl colour (1.8 Gain screen)
Brightness	35000 Lumen by using one Laser Source modul
Contrast Ratio	2000:1 (full on/off)
Light Source	Lamp free design; Laser Light Source, Expected Life: 30000 h $^{\mathrm{1}}$
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 5m 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; Light source cooling by chiller

Connectivity

External Controls	$1 \times D$ -Sub 37 pin (GPIO); $1 \times D$ -Sub 15-pin (3D); $1 \times D$ -Sub 9 pin (RS-232); $1 \times D$ -Sub 9-pin; $1 \times D$ -
Input Terminals	2 x DVI-D (optional); 3 x USB; 4 x 3GSDI (BNC) (optional)

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; Recommended: 10 to 25
Operating Humidity [%]	10 to 85 - 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]	Projector Power: 320
	Laser Module Power: 4500 typ.

Mechanical

External Dimensions (W x H x D) [mm]	Projector Head: 666 x 364 x 737 (excluding lens) Laser module: 804 x 777 x 652
Weight [kg]	Projector Head: 51 Laser module: 150
Fan Noise [dB (A)]	< 55

Additional Features

Additional Leadines	
Special Characteristics	Built-in IMS (NP90MS02-4K, optional); Flexible installation with separated laser source; High
	4K resolution; Laser Light System; Low TCO; Up to 30000 h expected life time without lamp
	exchange; Wide laser colour space
Green Features	
Ecological Materials	Eliminate waste and landfill implications associated with 35mm media; Laser technology
	reduces power usage and reduces replacement materials required
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; IEC60950-1; IEC60950-1 /
	EN55022 Class A (Marking EAC)
Warranty	
Warranty	2 years, parts warranty
External Chiller	
Dimensions (W x H x D) [mm]	377 x 592 x 976
Weight [kg]	67
Power Requirements	200-230 V, single phase, 7 A at 230 V AC
Power Consumption [W]	1550 typ.
Noise Level [dB (A)]	< 66
Optional Accessories	
Optional Accessories	4K SIB input board option; Air filter

 $^{^{1}}$ 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature.

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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