

## NC1700L Laser Projector

### Datasheet



#### Laser focused on a supreme cinematic experience for medium-sized venues

Designed for theatres with mid-sized screens of up to 17m wide, the NC1700L projector delivers an enhanced cinematic experience. Built upon the latest RB laser technology, this innovation using a red and blue laser light source goes beyond the colour and brightness output of traditional laser phosphor cinema projection systems. Delight your audience with vibrant crisp colours and exceptional image quality.

With high flexibility for easy installation, the NC1700L does not require a special exhaust system, thus supporting ceiling, floor and mobile applications. Additionally, the virtually maintenance free operation and low, eco-friendly power consumption, results in a reduced overall total cost of ownership (TCO) and therefore a greater per seat margin. Take your audience to the next generation of digital cinema, delivering a stunning visual experience for a brighter future.

### 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.

**Inspire your audience** - present perfect cinema quality with DCI compliant 2K resolution and precise colour processing for the best viewing 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.

**Hassle-free Installation** - wide zoom bayonet lens portfolio with motorised zoom, focus and lens shift enables customised installations and supports mobile use as well as easy replacement of current cinema projectors.

**High reliability** - the Solid Light Source provides up to 30000 hours of expected life, delivering adjustable brightness levels over a long period of time without any lamp exchange.

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

**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.

**All-in-one** - The Integrated Media Server (IMS) offers highest flexibility for content management as well as NAS-connectivity and Real-time Ingest whilst reducing the number of peripheral devices required.

## Product Information

|               |                 |
|---------------|-----------------|
| Product Name  | NC1700L         |
| Product Group | Laser Projector |
| Order Code    | 60004088        |

## Optical

|                    |   |
|--------------------|---|
| Projection Method  | 3-chip DLP™ Technology  |
| Screen Size [m]    | up to 17 in DCI colour (1.8 Gain screen)  |
| Contrast Ratio     | 1750:1  |
| Lamp               | Laser Light Source, Expected Life: 30000 h <sup>1</sup>   |
| Lens               | Zoom / Focus / Shift: Motorized<br>Other: Range of shift is dependent on lens<br>Primary Lenses: NP-9LS12ZM1: 1.2-1.72:1; NP-9LS13ZM1: 1.33-2.1:1; NP-9LS16ZM1: 1.62-2.7:1; NP-9LS20ZM1: 2.09-3.9:1; NP-9LS40ZM1: 4.07-6.34:1 |
| DMD Specifications | 2048 x 1080<br>Chip: 0.69" DC2K   |
| Cooling Method     | Circulating air cooling system<br>Liquid: Light source cooling by chiller   |

## Connectivity Projector

|                   |   |
|-------------------|---|
| External Controls | 1 x GPIO (3D) (D-sub 15 pin female); 1 x GPIO (D-sub 37 pin female); 1 x RJ45 100Base-T |
|-------------------|---|

## Interfaces IMS NP90MS02 (optional)

|                     |   |
|---------------------|---|
| 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 | HFR 3D Support (48 Hz/eye, 60 Hz/eye); Integrated SMS; Integrated Storage: 2 TB (DCP, RAID5); NAS support |

## Electrical

|                       |   |
|-----------------------|---|
| Power Supply          | Built-in power supply<br>Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase |
| Power Consumption [W] | Projector Power: 1945   |

## Environmental Conditions

|                            |                           |
|----------------------------|---------------------------|
| Operating Temperature [°C] | 10 to 35                  |
| Operating Humidity [%]     | 10 to 85 - non-condensing |

## Mechanical

|                                      |  |
|--------------------------------------|--|
| External Dimensions (W x H x D) [mm] | 700 x 326 x 930  |
| Weight [kg]                          | 68.5 (without lens)  |
| Fan Noise [dB (A)]                   | < 55   |
| Regulations Europe                   | CE; DCI 1.2; EN55022 1998, Class A; EN55024 1998; EN60950-1; EN61000-3-2; EN61000-3-3; IEC60825-1 Ed. 3: Class 1; IEC60825-1 Ed3 2014; IEC62471-5 Ed1 2015; TÜV-GS |
| Regulations Russia                   | EAC; EN55022 1998, Class A; EN55024 1998; EN61000-3-2; EN61000-3-3; IEC60825-1 Ed3 2014; IEC60950-1; IEC62471-5 Ed1 2015   |

## External Chiller

|                             |   |
|-----------------------------|---|
| Dimensions (W x H x D) [mm] | 700 x 575 x 650; Hose length: 2m and 5m |
| Weight [kg]                 | 108                                     |

|                       |   |
|-----------------------|---|
| Power Requirements    | 200-240 V, single phase, 10 A at 200 V AC |
| Power Consumption [W] | 1640 max.                                 |
| Noise Level [dB (A)]  | < 60                                      |

### Additional Features

|                         |   |
|-------------------------|---|
| Special Characteristics | Compact model; Dust sealed optical engine; Full HFR 3D support; Laser Light System; Latest digital technology; Low TCO; Metal filter; Play ingest |
|-------------------------|---|

### Warranty

|              |   |
|--------------|---|
| Warranty     | 2 years, parts warranty                 |
| Light Source | 2 years or 7500h (whatever comes first) |

### Green Features

|                      |   |
|----------------------|---|
| Ecological Materials | Laser technology reduces power usage and reduces replacement materials required |
|----------------------|---|

<sup>1</sup> 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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