Cinema RB Laser Projector

Sharp NC-1424

Quietest projection performance for mid-sized screens

With the latest RB laser light source technology which is almost entirely speckle-free, the NC-1424 cinema projector can be used with a high gain screen, impressing audiences with exceptional brightness and premium quality imaging.

Highly flexible, without the need for a special exhaust system, the projector is easy to install and suitable for ceiling, floor or mobile applications in mid-sized theatres with screen sizes of up to 17m wide.

With maintenance-free operation including protection against dust ingress and a low, eco-friendly power consumption, theatre operators benefit from a reduced overall total cost of ownership (TCO) and therefore achieve a greater per seat revenue.

Treat your movie-goers to next generation digital cinema projection for immersive, out-of-this-world motion picture experiences.

Benefits

Compact, lightweight and quiet – easy installation in small projection booths, easy transportation for mobile cinemas and perfectly suited for boothless cinemas.

Sealed optical engine – minimising dust ingress, consistent performance is assured and no special maintenance is required.

Highly flexible – with no exhaust system required, the NC-1424 is suitable for floor and ceiling installation and versatile content playback.

Virtually zero maintenance – no lamp and no filter replacement costs, no maintenance personnel costs and no lamp stock due to the innovative Laser Light engine.

Enjoy a Lower TCO – highest reliability, maintenance-free operation, low power consumption and up to 50000 hours life; the Laser light source results in a significantly lower total cost of ownership.

Specifications

Product Information

Product Name
Sharp NC-1424

Product Group
Cinema RB Laser Projector

Order Code
NC1424

Optical

Projection Method
3-chip DLP Cinema® Technology

Screen Size [m]
up to 17 in DCI colour (1.8 Gain screen)

Brightness
14000 Lumen

Light Source
Laser Light Source, expected life: up to 50000 h [1]

Lens
Zoom / Focus / Shift: Motorized
Other: Range of shift is dependent on lens
Primary Lenses: NC-12ZSA1 / NP-9LS12ZM1:1.2-1.72:1; NC-13ZSA1 / NP-9LS13ZM1:1.33-2.1:1; NC-16ZSA1 / NP-9LS16ZM1:1.62-2.7:1; NC-20ZSA1 / NP-9LS20ZM1:2.09-3.9:1; NP-9LS40ZM1: 4.31-6.77:1

DMD Specifications
2048 x 1080
Chip: 0.69" S2K, DLP Cinema® Technology

Cooling Method
Liquid: Air and liquid cooling inside

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

Environmental Conditions

Operating Temperature [°C]
10 to 35

Operating Humidity [%]
10 to 85 - non-condensing

Storage Temperature [°C]
-10 to 50

Storage Humidity [%]
10 to 85 - non-condensing

Electrical

Power Supply
Built-in power supply
Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase

Rated Input Current
Projector power: 10.5A @ 200V-240V

Power Consumption [W]
1837 typ.

Heat Dissipation (BTU)
6719 max.

Mechanical

External Dimensions (W x H x D) [mm]
700 x 288 x 812 (without lens and protrusions)

Weight [kg]
68 (without lens)

Fan Noise [dB (A)]
< 50 (ISO 9296)

Additional Features

Supported Cinema Media Servers
Dolby Integrated Media Server; GDC Integrated Media Block

Special Characteristics
Built-in IMS (IMS3000, optional); Compact model; DCI compliant; Dust sealed optical engine; Full HFR 3D support; Laser Light System; Latest digital technology; Low TCO; Metal filter

Green Features

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

Interfaces: Dolby IMS3000 (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 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

Manufacturer
Dolby (The Dolby IMS3000 is not a Sharp product. Sharp shall not in any way be liable for any product specifications).

Regulations

Europe
EN55035; EN61000-3-2/-3-3 (Marking: TUV, CE); EN62368-1/ EN55032 Class A

Laser / Lamp standard
EN60825-1 Ed3:2014 Class1; EN62471-5 Ed1:2015 Risk Group3; IEC60825-1 Ed3:2014 Class1; IEC62471-5 Ed1:2015 Risk Group3

Other EMEA
EN55024; EN55032 Class A; EN55035; EN60950-1; EN61000-3-2/-3-3 (Marking CE)

Warranty

Warranty
3 years, parts warranty

Light Source
3 years or 10000h (whatever comes first)

[1] 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature, under normal usage condition, not covered by standard warranty

* 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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