Cinema RB Laser Projector

Sharp NC-2024M

Modular Cinema Projection – a new standard in adaptable screening

The world's first cinema projector series offering a modular laser light system with projector head, all in one box. The modular concept allows you to plug-in the appropriate light modules based on the brightness you need. Protect your investment when migrating from 2D to 3D projection, or adapting your set-up to a wider screen.

The NC-2024M utilises RB laser technology which is almost speckle-free compared to RGB technology, providing similar benefits yet at a lower cost. Don't limit your venue's potential; go beyond cinema to increase your visitor numbers and maximise revenue. The modular light concept opens opportunities to screen alternative content for corporate presentations and gaming events.

You can expect a powerful modular projector that delivers compelling advantages when it comes to operation, efficiency and image quality. Ideally operating in medium-sized venues and with premium format cinema screens of up to 20m.

Benefits

Modular Light Source – achieve the light output which is perfectly adjusted to your requirements with exchangeable light modules 24.000lm, 20.000lm and 18.000lm for different brightness demands.

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.

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

Specifications

Product Information

Product Name
Sharp NC-2024M

Product Group
Cinema RB Laser Projector

Components
Projector Head NC-24HS(60006364),
Laser Light Source NC-20L4(100016533)

Order Code
NC2024M

Optical

Projection Method
3-chip DLP Cinema® Technology

Screen Size [m]
up to 20 in DCI colour (1.8 Gain screen)

Brightness
Up to 20000 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-12ZSB1 / NC-60LS12Z:1.2-1.81:1; NC-14ZSB1 / NC-60LS14Z:1.4-2.05:1; NC-16ZSB1/ NC-60LS16Z:1.59-2.53:1; NC-19ZSB1:1.9-3.25:1; NC-24ZSB1 / NC-60LS24Z:2.4-3.9:1; NC-39ZSB1 / NC-60LS39Z:3.9-6.52:1

DMD Specifications
2048 x 1080
Chip: 0.98" S2K, DLP Cinema® Technology

Cooling Method
Circulating air cooling system
Liquid: Cooling inside, no chiller required

Connectivity Projector

External Controls
1 x D-Sub 9 pin (RS-232); 1 x GPIO (3D) (D-sub 15 pin female); 1 x GPIO (D-sub 37 pin female); 1 x RJ45 100Base-T; 1 x USB port (TypeA)

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: 18.1A @ 200V-240V

Power Consumption [W]
2560 typ.

Heat Dissipation (BTU)
8735 max.

Mechanical

External Dimensions (W x H x D) [mm]
697 x 509.5 x 1,095

Weight [kg]
150 (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; Laser Light System; Latest digital technology; Low TCO; Metal filter; Modular Light Source; RB laser light source; Reduced costs

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); 3 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
CE; DCI 1.2; EN55024; EN55032 Class A (Marking TUV,CE); EN61000-3-11; EN61000-3-12; EN61000-3-2; EN61000-3-3

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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