

SHARP

Sharp NC-624

Cinema Laser Projector



Silent, sealed, sustainable

The NC-624 digital cinema projector guarantees highest efficiency with the latest generation laser technology. Furthermore, its low noise level of less than 39dB makes it the quietest in its category and perfectly suited for boothless cinemas.

The projector is easy to install and suitable for ceiling, floor or mobile applications in smaller theatres with screen sizes of up to 11m wide, making it highly flexible.

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.

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-624 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-624

Product Group
Cinema Laser Projector

Order Code
NC624

Optical

Projection Method
3-chip DLP Cinema® Technology

Screen Size [m]
up to 11 in DCI colour (1.8 Gain screen)

Brightness
6000 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
Circulating air cooling system

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

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 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 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: 7.4A @ 200V-240V

Power Consumption [W]
890 typ.

Heat Dissipation (BTU)
3248 max.

Mechanical

External Dimensions (W x H x D) [mm]
680 x 333 x 860 (without lens and protrusions)

Weight [kg]
59 (without lens)

Fan Noise [dB (A)]
< 39 (ISO 9296)

Additional Features

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 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

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 (whichever 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

* 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.