4K Cinema RB Laser Projector

NEC NC2443ML

Greater flexibility with modular cinema projection solutions

Joining Sharp's modular cinema projection solutions, the NC2443ML provides high flexibility and future-proof adaption. The modular concept allows for simple upgrade from 2K to 4K by changing only the projector head, or an increase in brightness by choosing from three different light modules (18K, 20K, 24K Lumen). In addition to the 2K projector head, the NC2443ML employs a 4K head and a 24K Lm laser module.

The NC2443ML is based on RB laser technology, generating exceptional image quality with very natural looking colours yet at a low operational cost. RB laser technology is almost entirely speckle-free allowing high gain screens to be used achieving higher brightness levels especially for 3D.

The Sharp modular solution is opening opportunities for leasing structures which greatly appeal to theatre operators to better manage their budgets. The innovative NC2443ML brings compelling benefits in lowering operating costs and increasing efficiencies whilst delivering exceptional viewing experiences in medium-sized venues.

Benefits

Modular Light Source – achieve the light output which is perfectly adjusted to your requirements with exchangeable light modules (24,500lm, 20,000lm, 18,000lm) for different brightness demands.

Protect your investment – save on new lenses by reutilising the NEC NC2000 series lens family.

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
NEC NC2443ML

Product Group
4K Cinema RB Laser Projector

Components
Projector Head NP-42HD (60005139),
Laser Light Source NP-24LU03 (100015660)

Order Code
40001392

Optical

Projection Method
3-chip 0.98“ DC4K DMD

Screen Size [m]
up to 22 in DCI colour (1.8 Gain screen)

Brightness
Up to 24000 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-60LS12Z:1.2-1.81:1; NC-60LS14Z:1.4-2.05:1; NC-60LS16Z:1.59-2.53:1; NC-60LS24Z:2.4-3.9:1; NC-60LS39Z:3.9-6.52:1

DMD Specifications
4096 x 2160

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: 19.1A @ 200V-240V

Power Consumption [W]
3182 typ.
Projector Power: 362
Laser Module Power: 2820 typ.

Heat Dissipation (BTU)
11673 max.

Mechanical

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

Weight [kg]
153 (without lens)

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

Additional Features

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 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

Regulations

Europe
CE; DCI 1.2; EN55024; EN55032 Class A (Marking TUV,CE); EN55035; EN61000-3-11; EN61000-3-12; EN61000-3-2; EN61000-3-3

Russia/Belarus/Kazakhstan
EAC; EN55024 1998; EN55032 1998, Class A; EN61000-3-2; EN61000-3-3

Warranty

Warranty
2 years, parts warranty

Light Source
2 years or 7500h (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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