

Cinema Projector - 4K - Laser

# Sharp NC1843ML



## Greater flexibility with modular cinema projection solutions

- Modular Light Source achieve the light output which is perfectly adjusted to your requirements with exchangeable light modules 24,500lm, 20,000lm and 18,000lm for different brightness demands.
- Optimise your cost ownership take advantage of new financing structures; lease your light engine and only pay for the light you use.
- 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

## General

|            |             |
|------------|-------------|
| Series     | [nc-series] |
| Order Code | 40001394    |

## Image

|                                            |                                                                                                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Brightness Up To (lm)                      | 18000                                                                                                             |
| Cooling Method                             | Circulating air cooling system                                                                                    |
| DMD Pixels                                 | 4096 x 2160                                                                                                       |
| DMD Chip                                   | 0.98" TRP 4K DLP                                                                                                  |
| Lens Other                                 | Range of shift is dependent on lens                                                                               |
| Primary Lenses                             | NC-60LS16Z:1.59-2.53:1, NC-60LS24Z:2.4-3.9:1, NC-60LS39Z:3.9-6.52:1, NC-60LS14Z:1.4-2.05:1, NC-60LS12Z:1.2-1.81:1 |
| Lens Zoom / Focus / Shift Motorized        | Yes                                                                                                               |
| Laser Light Source Expected Life Up To (h) | 50000                                                                                                             |
| Projection Method                          | 3-chip 0.98" DC4K DMD                                                                                             |
| Screen Size Up To (m)                      | 19                                                                                                                |

## Connectivity

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

## Electrical

|                                                  |                                                              |
|--------------------------------------------------|--------------------------------------------------------------|
| Heat Dissipation Max (BTU)                       | 11540                                                        |
| Power Consumption typ. (W)                       | 3146                                                         |
| Power Consumption Laser Module typ. (W)          | 2794                                                         |
| Power Consumption Projector (W)                  | 352                                                          |
| Power Supply                                     | 200 to 240V AC, 50/60Hz, single phase, Built-in power supply |
| Rated Input Current Projector Power 200-240V (A) | 19.1                                                         |

## Mechanical

|                                      |       |
|--------------------------------------|-------|
| External Width (mm)                  | 697   |
| External Height (mm)                 | 509.5 |
| External Depth (mm)                  | 1095  |
| Fan Noise less than (dB-A, ISO 9296) | 50    |
| Weight (kg)                          | 153   |

## Environmental Conditions

|                                       |           |
|---------------------------------------|-----------|
| Operating Humidity Non-condensing (%) | 10 - 85   |
| Operating Temperature (°C)            | 10 to 35  |
| Storage Humidity Non-condensing (%)   | 10 - 85   |
| Storage Temperature (°C)              | -10 to 50 |

## Regulatory

|                           |                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Europe                    | CE, DCI 1.2, EN55024, EN55032 Class A (Marking TUV,CE), EN61000-3-11, EN61000-3-12, EN61000-3-2, EN61000-3-3, EN62368-1: 2nd Edition |
| Russia/Belarus/Kazakhstan | EAC, EN55024 1998, EN61000-3-2, EN61000-3-3, EN55032 1998, Class A, EN62368-1: 2nd Edition                                           |
| Warranty Light Source     | 2 years or 7500h (whatever comes first)                                                                                              |
| Parts Warranty (years)    | 2                                                                                                                                    |

## Green Features

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

## Interfaces: Dolby IMS3000 (optional)

|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| Additional Features | Integrated SMS, Integrated Storage: 2 TB (net), NAS support                                 |
| Input Terminals     | 2 x 3GSDI bidirectional (input and output), HDMI, 2 x USB Type 3.0, 1 x USB Type 2.0, eSATA |
| Output Terminals    | 2 x RJ45 (16-channel AES3-EBU Digital Audio)                                                |

## Additional Features

|                         |                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special Characteristics | Built-in IMS (IMS3000, optional), Compact model, Dust sealed optical engine, Laser Light System, Latest digital technology, Low TCO, Metal filter, Modular Light Source, Reduced costs, DCI compliant |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

