# Datasheet



**Modular Cinema Projection – a new standard in adaptable screening**

The world's first cinema projector 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 NC2403ML 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 22m.

## Benefits

**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.

**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.

## Product Information

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| Product Name | NEC NC2403ML |
| Product Group | Laser Projector |
| Components | Projector Head NP-02HD (60004880), Laser Light Source NP-24LU03 (100015660) |
| Order Code | 40001532 |

## Optical

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| Projection Method | 3-chip DLP Cinema® Technology |
| Screen Size [m] | up to 22 in DCI colour (1.8 Gain screen) |
| Brightness | Up to 24500 Lumen |
| Contrast Ratio | 2000:1 |
| Light Source | Laser Light Source, expected life: up to 50000 h [1] |
| Lens | Zoom / Focus / Shift: Motorized<br>Other: Range of shift is dependent on lens<br>Primary Lenses: NC-60LS12Z:1.2-1.81:1; NC-60LS14Z:1.4-2.05:1; NC-60LS16Z:1.59-2.53:1; NC-60LS19Z:1.9-3.25:1; NC-60LS24Z:2.4-3.9:1; NC-60LS39Z:3.9-6.52:1 |
| DMD Specifications | 2048 x 1080<br>Chip: 0.98" S2K, DLP Cinema® Technology |
| Cooling Method | Circulating air cooling system<br>Liquid: Cooling inside, no chiller required |

## Connectivity Projector

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| 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

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|---|---|
| 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

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| Power Supply | Built-in power supply<br>Projector Power Supply Unit: 200 to 240V AC, 50/60Hz, single phase |
| Rated Input Current | Projector power: 18.1A @ 200V-240V |
| Power Consumption [W] | 3257 max. |
| Heat Dissipation (BTU) | 11113 |

## Mechanical

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| External Dimensions (W x H x D) [mm] | 697 x 509.5 x 1,337 |
| Weight [kg] | 150 (without lens) |
| Fan Noise [dB (A)] | < 50 |

## Additional Features

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|---|---|
| Special Characteristics | Built-in IMS (IMS3000, optional); Compact model; Dust sealed optical engine; Laser Light System; Latest digital technology; Low TCO; Metal filter; RB laser light source; Reduced costs |

## Green Features

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

## Interfaces: Dolby IMS3000 (optional)

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| 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

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| Europe | CE; DCI 1.2; EN55024; EN55032 Class A (Marking TUV,CE); 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

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|---|---|
| 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.