Technical specifications

**Measurements and weight**

All dimensions are given in millimetres.

Dimensions of the circular housing: 481 x 481 x 327 mm³

Total dimensions of the fixture (adjustable lyre included): 649 x 556 x 327 mm³

Weight: 16kg

**Housing / Construction**

Modular conception: conception subdivided into modules, which can be independently and quickly replaced.

Protection rating: IP20

Menu display: LCD colour screen

Low cleaning care: optical parts isolated from haze

**Light Source**

Class 3R laser product: extended source

Wavelength: 450nm, 520nm, 638nm

Colours: smooth RGB spectrum

Beam diameter (1/e) at scanning vertex: >14mm

Beam divergence: >1.5mrad

Scan rate: 330HZ

Distance from scanning vertex to closest point of human access (NPHA): 240mm

Maximum output: 23.2 μJ

Typical average power at 1m: <1mW

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LASER LIGHT - AVOID DIRECT EYE EXPOSURE - CLASS 3R LASER PRODUCT 450nm, 638nm, 520nm 330Hz, <23.2μJ EN/IEC 60825-1 ed. 3 2014
Technical specifications

Central scanning system
Scanning motor: extensive lifetime brushless motor
Scanning angle: 360°
Mirror: R>98%
Safeguard: certified failed-safe

Mirror output
Mirror side of the tilt: 11,5x5cm Plexiglas PMMA mirror
8 independent mirrors: producing independent 8 light planes
Aperture by mirror: 42° linear aperture by tilt
Operating angle: 180°
Motorization: 8 steps to steps motors – 16 bits non-linear resolution
Movement: very smooth at low speed and extremely reactive
Maximum speed: from mirror to frost side in 0,25sec

Frost output
Frost side of the tilt: 11,5x5cm frost filter
8 independent frost filter: producing 8 independent frosted outputs
Aperture by mirror: very wide
Operating angle: 180°
Motorization: 8 to steps motors – 16 bits non-linear resolution
Movement: very smooth at low speed and extremely reactive
Maximum speed: from mirror to frost side in 0,25sec
Output: 4 000 lux

Moving core output
Central circular frosted reflector: 5cm high, 24cm external diameter, 10cm internal diameter
Length of vertical movement: 6cm, 16 bits resolution
Speed: up to 6cm/sec in standard mode / up to 15cm/sec in fast mode
Output: 20 000 lux

DMX
Number of channels: 60
2 options: standard or fast mode
Update: by micro-SD card
Electronical gobos: 9 e-gobos
RGB control: independent RGB control per tilt (x8)
Dimmer control: independent dimmer control per tilt (x8)
Zoom parameter: control of the moving core position
Strobe: control over the frequency of the pulse and the duration of the pulse
Technical specifications

**Beam Control (e-gobos)**
Number of beams: 1 to 256
Control: intuitive gobo like system
Gobo type: number of beams
Gobo size: width of the beam
Gobo indexation: position of the beam
Gobo rotation: speed and direction of the beam

**Power supply**
Power supply unit: 100 to 240 Volts – 50/60Hz
Power: 200 Watt maximum

**Cooling system/Thermal**
Cooling: thermo electric cooling
Safety: protection against excessive temperatures
Nominal operating temperature of the laser source: 30°C

**Installation**
Adjustable mounting lyre: rigging clamps attachment point
Position: on a vertical rigging structure, adjustable mounting lyre horizontal to the ground
Safety: safety cable through the adjustable mounting lyre

**Operating parameters**
Maximum ambient temperature: 40°C (104°F)
Minimum ambient temperature: 0°C (32°F)

**Connections**
AC power input/output: Neutrik PowerCon True1
DMX data in/ou: 5-pin locking XLR

**Standards**
Safety:
- CB IEC60825-1:2014
- 21CFR 1040
- ANSI Z136.1 “Standard for Safe Use of Lasers”
- CB IEC62368

EMC:
- EN55032
- EN55035
- EN61000-3-2
- EN61000-3-3
- FCC Part15sDoc
- ICES-003
- AS/NZS CISPR32, 35