BMFL Spot™

The BMFL™ – Bright Multi-Functional Luminaire – much anticipated new lighting fixture from Robe, brings a real game changer in the world of moving lights.

The BMFL Spot™ has a custom light source designed for Robe and produces a staggering powerful 250 000 lux at 5 metres – no other product currently on the market can equal this output! Despite its power and comprehensive feature set, it weighs just 36 Kgs… and has a compact body profile.

The lamp produces light at a CRI of 90, this combined with a refined optical system, 5–55 degree zoom, results in a crisp, high quality fat beam that is truly homogenised and without a hotspot. There are also two colour wheels which include filters that can be utilised to adjust colour temperature and improve the CRI of the white output in aging lamps. There are two rotating gobo wheels – each with six slot&lock gobo positions. There are also two Rotating Prisms. The Dual Graphic Wheels both focus within the same focal plane and the rotation and movement can be individually controlled and varied… to create ultra-cool, infinitely subtle special effects. The frost and dimming functions provide further effects.

Three grades of Frost are available and the dimmer is exceptionally smooth with no distortion, so the full beam width is visible right up to the point at which it disappears. The strobe effect is authentic with up to 10 flashes per second!

Aimed at long-throw applications, the newly patented Robe EMS™ (Electronic Motion Stabiliser) technology, enables the BMFL™ to absorb vibrations from audio outputs, truss movement, sprung or suspended floors, etc. The BMFL™ is a very powerful, feature packed luminaire that will provide a real signature light source for any project.

Source

- Lamp: Compact short-arc metal halide lamp
- Base: PGJX28
- Approved model: OSRAM Lok-it! HTI 1700/PS
- Lifetime: 750 hours @ 1700 W / 1500 W / Quiet mode
- CRI 90, Colour Temperature 6.000 K
- Control: Automatic and remote on/off
- Ballast: Electronic

Optical System

Fixture total lumen output:

- 40.000 lm at 1700 W
- 36.500 lm at 1500 W
- 32.000 lm at 1200 W (Quiet mode)
- 250.000 lux @ 5m, 2.500 lux @ 50m
- Dichroic glass reflector for maximising the light efficiency
- 11:1 Zoom optical system
- Beam angle: Zoom range 5° – 55°
- Output Lens diameter: 160 mm

Electromechanical Effects

- Cyan: 0 – 100 %
- Magenta: 0 – 100 %
- Yellow: 0 – 100 %
- Variable CTO: 2.700 – 6.000 K
- Colour wheel 1 with 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2 with 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, 9000 K CTB, minus half and minus green + white
- Dual Graphic Wheel with two animation discs, individual control of rotation of each disc
- Effects: 6-facet circular and 6-facet linear rotating and indexable prisms
- Rotating Gobo wheel 1:6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Rotating Gobo wheel 2:6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: variable Light, Medium and Heavy Frosts
- Dimmer: Optimized dual blade system for exceptional smooth dimming
- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out
- Motorized zoom and focus
- Pan: 540 °
- Tilt: 270 °
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)

Control and Programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- Wireless CRMX™ technology from Lumen Radio (on request)
- Control channels: 41, 33
- 2 DMX protocol modes
- 3-editable programs, each up to 100 steps
- Stand-alone operation
- QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC
- Pan/Tilt resolution: 16 bit
- Movement control: Tracking and vector
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Rotating Gobo Wheel positioning: 8 or 16 bit
- Gobo indexing & rotation: 8 or 16 bit
- Dual Graphic Wheel: 8 bit
- Effect Wheel indexing & rotation: 8 bit
- Iris: 8 or 16 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Focus: 8 or 16 bit
- Dimmer: 8 or 16 bit
- Ethernet port: Art-Net, MA Net, MA Net 2, sACN
- Data in/out: Locking 3-pin & 5-pin XLR
- Power in: Neutrik PowerCon
- Built-in analyser for easy fault finding

Rotating Gobos

- 12x Rotating Glass gobos on 2 wheels
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm

- Thickness: 1.1 mm
- Max. thickness: 4.0 mm
- High temperature borofloat or better glass

Thermal

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 100 °C (212 °F)

Electrical Specification

- Power supply: Electronic auto-ranging
- Input voltage range: 200–240 V, 50/60 Hz
- Power consumption: 2000 W at 230 V / 50 Hz

Mechanical Specification

- Height: 813 mm (32") – head in vertical position
- Width: 483 mm (19")
- Depth: 335 mm (13.2")
- Weight: 36 kg (79.4 lbs)
- Fixation option: Pan/Tilt-lock mechanism

Rigging

- Mounting points: 5 pairs of ¼-turn locks
- Universal operating position
- 3 mounting positions: 0°, 32° and 90°
- 2x Omega brackets with ¼-turn quick locks