

B M F L TM

BRIGHT MULTIFUNCTIONAL LUMINAIRE

Spot

ROBE[®]



YOU ASKED, WE LISTENED

The **BMFL - Bright Multi-Functional Luminaire** – is the result of Robe listening extensively to the wishes and needs of lighting designers, rental companies and technicians from every corner of the industry and all around the world. It is designed as an ultimate ‘signature’ fixture, hugely bright, highly innovative – a real ‘game changer’ – something special, different and truly unique.

It’s a big powerful light for large venues with a big, fat front lens, full of light. Because of the relatively small size and weight just 36 kg – it can be used for any application in TV, theatre or concert venue.

BMFL™ is using a brand new lamp from Osram, specifically designed for Robe. The lamp can be operated at 1700 W, 1500 W or 1200 Watts. The fixture produces an incredible 40,000 lumens and measures 250,000 lux at 5m and over 2,500 lux at 50m, there is no other product currently on the market in this class that can equal this output!

You kept telling us about your desire to produce both light-pastel as well as rich-saturated colours! With BMFL™ you got that. Colour changes are even and seamless without any colour bands. It is the best colour mixing system ever seen in a fixture!

All the effects you need are there. The Dual graphic wheel – a winner first introduced in our MMX™, a very fast Iris, 2 rotating gobo wheels – both with high definition glass Air-fx and breakup gobos, 3 variable frost elements and 2 rotating prisms.

Another wish from you guys – Zoom optics that are crystal clear with a huge 11:1 ratio. A tight 5 degrees – out to a massive 55 degrees, all in a split second – an effect on its own.

The dimmer is exceptionally smooth with no distortion, and the full beam width is visible right up to the point at which it disappears.

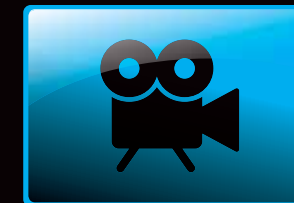
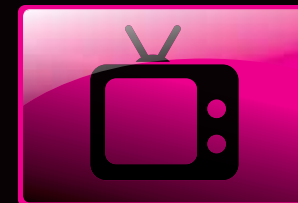
EMS™ – Electronic Motion Stabiliser. This is the latest innovation from Robe. The EMS™ is reducing the beam deviation caused by movement or vibration of the truss or set. The image stays right where you put it!

We have been working on this project for more than 3 years and we really believe we have created a fantastic product – a powerful ‘workhorse’ fixture that will deliver both good short and long-term returns on your investment.

Josef Valchar
General Manager, CEO

ROBE®

BROADCAST THEATRE FILM LIVE



GAME CHANGER



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. The new, high definition colour mixing technology can produce a full spectrum of colours. 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 @ 170W / 1500W / silent mode
- CRI 90, Colour Temperature 6.000K
- 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 silent 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

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

Mechanical Specification

- Height: 812 mm (32") – head in vertical position
- Width: 483 mm (19")
- Depth: 335 mm (13.2")
- Weight: 35.8 kg (78.9 lbs)
- Fixation option: Pan/Tilt-lock mechanism

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

Thermal

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 170 °C (338 °F)

Electromechanical Effects

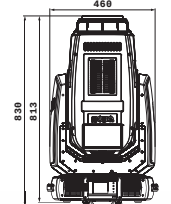
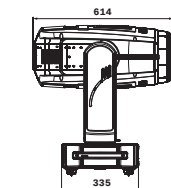
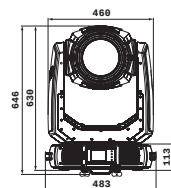
- Cyan: 0–100 %
- Magenta: 0–100 %
- Yellow: 0–100 %
- Variable CTO: 2.700–6.000K
- Colour wheel 1 with 6 fixed dichroic colours: deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2 with 6 replaceable "SLOT&LOCK" dichroic colours: pink, lavender, laser green, CTB, minus half 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 Stabiliser system for reducing beam deviation caused by truss movement or vibration

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 bit
- Gobo indexing & rotation: 8 or 16 bit
- Dual Graphic Wheel: 8 bit
- Dual Graphic 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

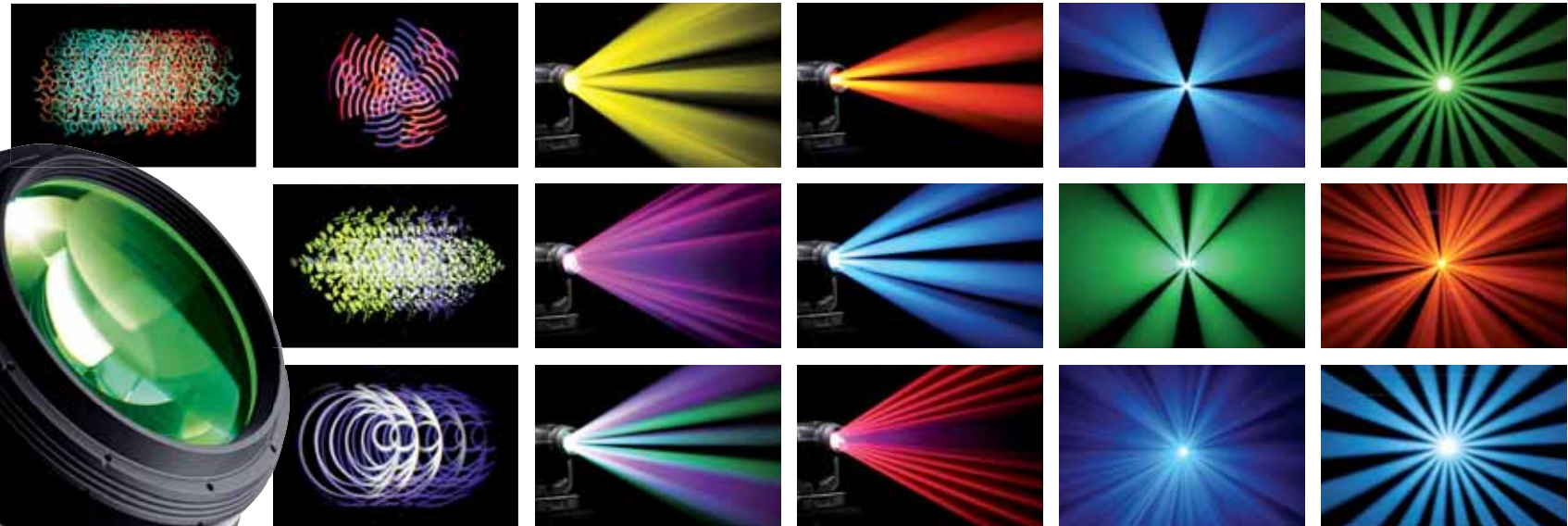
Rigging

- 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



Impressive Aerial and Graphic Effects

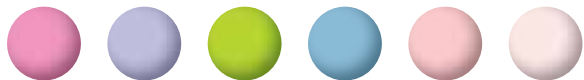
The BMFL™ Spot features two Rotating Gobo wheels - each with six slot&lock gobos and two Rotating Prisms - one a linear six-facet prism and the other a six-facet circular prism, both of which can be used for spectacular, detailed aerial effects and projection. Astonishing artistic animations and effects are possible to achieve thanks to the Dual Graphic Wheel. By its unique design it allows creation of interesting Kaleidoscopic effects, as well as effects like clouds, sky, water and transitions while morphing through several focal planes.



Colour Wheel 1



Colour Wheel 2



Rotating Gobo Wheel 1



Rotating Gobo Wheel 2







Packaging

The BMFL™ Spot is supplied in a cardboard box or in two different types of custom flight cases – Single Top Loader Case or Dual Top Loader Case. Both cases are equipped with a specially designed soft rubber insert for maximum protection of the light during transport and handling.

Cardboard for ROBIN BMFL™ Spot



630 x 630 x 1100 mm
(24.8" x 24.8" x 43.3")

Single Top Loader Case for ROBIN BMFL™ Spot



600 x 720 x 860 mm
(23.6" x 28.4" x 33.9")

Dual Top Loader Case for ROBIN BMFL™ Spot



1450 x 600 x 860 mm
(57.1" x 23.6" x 33.9")





COMMONWEALTH GAMES GLASGOW 2014 | DAVID GUETTA AT GLOBAL GATHERING FESTIVAL | TOMORROWLAND 2014



— YOU ASKED, WE DELIVERED —



BMFLTM

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