

# BMFL™ WashBeam

The strong-arm of the BMFL™ family - the superbly powerful BMFL WashBeam comes with extra bright output and an abundance of great features, e.g newly developed framing shutters, super wide front lens and animation wheel.

**Light source**

1700 W OSRAM Lok-it! HTI 1700/PS

**Light output**

41.000 lm, 300.000 lx @ 5 m, 3.000 lx @ 50 m

**Zoom range**

5° - 45°

**Effects**framing shutters, rotating gobo wheel,  
interchangeable frost

The BMFL WashBeam will enhance any show with its large beam produced through wide 180 mm front lens. With custom light source designed for Robe it produces an astounding 300.000 lux at 5 metres! Rotating gobo wheel with carefully selected gobos ensure many combinations of in air animations, but can also produce nice spot-like projections on surfaces. Four fast shutter blades with smooth and precise movement offer individually angled positions within a frame - which itself can rotate through 90 degrees, providing a sharp or soft, precisely repeatable frame for the projected image. Fast movement of the framing system also allows unique in air beam effects. Adding frost filters can enhance the projection by adding smooth touches to the beam's edge.

# Technical Specification

## 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 92+
- Colour temperature: 6.000 K
- Control: Automatic and remote on/off
- Ballast: Electronic

## Optical system

- Robe's proprietary optical design
- High - efficiency zoom optical system, ratio 9:1
- Zoom range: 5° - 45°
- Output lens diameter: 180 mm
- Dichroic glass reflector for maximising the light efficiency
- High efficient component optics
  - 41.000 lm @ 1700 W
  - 38.130 lm @ 1500 W
  - 33.620 lm @ 1200 W (Quiet mode)
- Light output: 300.000 lx @ 5 m, 3.000 lx @ 50 m

## Dynamic Effects and Features

- Cyan: 0-100 %
- Magenta: 0-100 %
- Yellow: 0-100 %
- Variable CTO: 2.700-6.000 K
- Colour wheel 1: 6 fixed dichroic colours - deep red, deep blue, orange, green, magenta, congo blue + white
- Colour wheel 2: 6 replaceable "SLOT&LOCK" dichroic colours - pink, lavender, laser green, 9.000 K CTB, minus half and minus green + white
- Framing shutters: 4 individually positionable blades plus rotation of the complete frame system +-45°
- Rotating gobo wheel: 6 rotating, indexable, replaceable "SLOT&LOCK" glass gobos + open
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: Variable Light, Medium plus replaceable Heavy (two another frosts included)
- Motorized zoom and focus
- Shutter: Separate dual blade system, Variable strobe effect up to 10 Hz, full black out
- Dimmer: Optimized dual blade system for exceptional smooth dimming

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding
- Protocols: USITT DMX-512, RDM, Art-Net, MA Net, MA Net2, sACN
- REAP™ - Robe Ethernet Access Portal
- Wireless version: CRMX™ technology from Lumen Radio
- DMX Protocol modes: 2
- Control channels: 48, 41
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Animation wheel: 8 bit
- Animation wheel 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

## Movement

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)
- Automatic Pan/Tilt position correction

## Rotating gobos

- 6x rotating glass gobos
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

## Effect wheel

- Single animation wheel
- Material: Aluminium
- Diameter: 109 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions at variable speed

## Framing shutters system

- Shutters: 4 Blades, each with separate movement and +- 25° rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Pre-programmed: Shape and blade sequences
- Rotation: 90° of the complete framing system

## Thermal specification

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 170 °C (338 °F)
- Minimum operating temperature: -5°C (23°F)
- Total heat dissipation: max. 5800 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 200-240 V, 50/60 Hz
- Power consumption: 2000 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

## Approvals

- cETLus Compliant
- CE Compliant

## Mechanical specification

- Height: 826 mm (32.5")
- Width: 483 mm (19.0")
- Depth: 335 mm (13.2")
- Weight: 38.4 kg (84.7 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locks
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON In connector

## Optional accessories

- Lamp Osram Lok-it HTI 1700/PS: 14080049
- BMFL Handles 2 pcs: 10980233
- BMFL Side Handle: 10980396
- Trigger Clamp Doughty: 17030386
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120163-02
- Dual Top Loader Case: 10120164-02
- Foam Shell: 20020218-01

## Legal

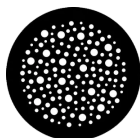
- BMFL™ is a trademark of Robe lighting s.r.o.
- BMFL™ WashBeam is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patent

## Gobos&Colours

### Rotating Gobo Wheel



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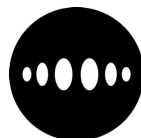
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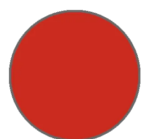


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### Colour Wheel 1



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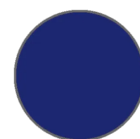
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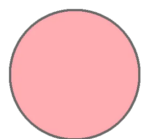


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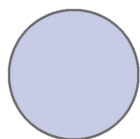


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### Colour Wheel 2



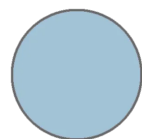
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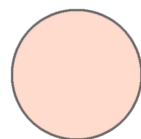
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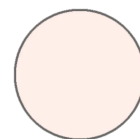
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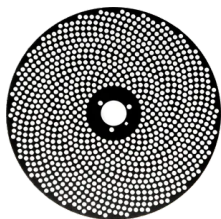


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### Animation Wheel



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