

# iBOLT™

The time has come to replace your antiquated discharge sourced outdoor aerial effect luminaires with a new generation Searchlight and Skyflower fixture, to make outdoor lighting statements like never before!

**Light source**

LSW-5™ 500W White Laser Source

**Light output**

42.000 lx @ 100 m, 1.100.000 lx @ 20 m,  
16.500.000 lx @ 5 m

**Zoom range**

0.4° - 8.5° hard edge, up to 16° soft edge  
Zoom optical system: 40:1

**Effects**

Frost, Static gobo wheel, Rotating gobo wheel,  
colour wheel, continual PAN



With incisive solid, flat field beams, shapes and effects, the sky is your canvas. Highly and actively protected to operate in all environments, iBOLT™ projections are visible from kilometres away. Such brilliance demands attention!

Specifically designed to generate incredible power, and be perfectly safe to use, we developed the LSW-5™ engine. Its white 500W Phosphor Laser source produces an incoherent beam with an incredible intensity of 1.100.000 lx @ 20 m (42.000 lx @ 100 m). With such remarkable output, the iBOLT™ ensures ultimate contrast with the night sky for maximum impact.

Harnessing the power to deliver such presence, the large 300mm front lens in combination with the optical chain delivers ultimate, incisive beam definition. iBOLT™ has a zoom ratio of 40:1 with a zoom range of 0.4° - 8.5° hard edge, up to 16° soft edge, guaranteeing the creation of spell-binding aerial shafts of light.

Maximising colour options, iBOLT™ features a CMY colour mixing system and a colour wheel with 13 dichroic colours and an onboard DataSwatch™ colour library, including the most commonly used whites, you have the tools to cover everything from the dense saturates to the most refined pastel tones.

Far beyond the capabilities of a traditional searchlight, iBOLT™ offers an expansive effects suite, boasting static and rotating gobo wheels along with beam reducers tailored for in-air effects. Particularly remarkable is our proprietary SpektraBeam™ effects engine, a patented innovation that delivers a truly transformative lighting experience.

The inclusion of a CMY + Colour wheel, complemented by the DataSwatch™ library, grants access to an extensive palette of colours limited only by imagination. Within the comprehensive iBOLT™ effects package, you'll find gobo wheels and our patented MLP™ stackable multi-level prisms, which enable independent speed and direction control. Combined with continuous PAN rotation, this unlocks a plethora of effects previously deemed unattainable.

To swirl around the sky, iBOLT™ has a pan movement range of 540° with continuous rotation control. Our MAPS™ Motionless Absolute Positioning System removes the need for pre-use pan and tilt calibration movement, while EMS™ Electronic Motion Stabilizer technology negates fixture hysteresis, removing irritating beam shake often associated with larger fixtures.

For all environment operation, iBOLT™ has the most advanced, patented IP65 protection available. Our RAINS™ Robe Automatic Ingress Protection System not only prevents ingress, it actively manages the fixture's internal microclimate, removing internal moisture build-up automatically. The system even runs an ingenious Self Pressure Test, without specialised tools, to check internal pressure buildup, ensuring maximum protection.

For operation in extreme cold, the iBOLT™ has our innovative POLAR+™ technology. When activated, the POLAR+™ standby mode will automatically maintain an internal temperature level, allowing instant operability down to minus 50 degrees centigrade!

We take safety very seriously with such intense light levels. iBOLT™ has our patented, constantly scanning ScanGuard™ system which instantly reduces fixture output if someone gets within a direct, unsafe viewing distance.

Ideally suited for remote outdoor installations, iBOLT™ uses REAP™ Robe Ethernet Access Portal communication software, viewed as a web browser, giving real-time fixture monitoring of all parameters, including complete RAINS™ status information.

**It's time to dominate the sky, with iBOLT™**

# Technical Specification

## Source

- Light source type: LSW-5™ 500W White Laser Source
- Colour temperature: 10.000 K
- CRI: 70
- Typical lumen maintenance: L70 @ 12.000 hours

## Optical system

- Robe's proprietary optical design (Patent pending)
- Zoom optical system: 40:1
- Zoom range: 0.4° - 8.5° hard edge, up to 16° soft edge
- Output lens diameter: 300 mm
- Fixture total lumen output:
  - 26.800 lm (integrating sphere)
  - 21.500 lm (goniophotometer)
- Illuminance:
  - 16.500.000 lx @ 5 m
  - 1.100.000 lx @ 20 m
  - 42.000 lx @ 100 m

## Dynamic Effects and Features

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Colour Wheel: 13 dichroic filters + white
- Rotating gobo wheel: 9 rotating gobos + open, indexable and replaceable gobos
- Static gobo wheel: 14 gobos + open
- MLP™ - Patented Multi-Level Prisms allow multiple prisms to be "stacked" while retaining individual speed and direction control. With variable shape and size it creates unlimited dynamic, multi-level flower and beam effects: Innovative Effect Engine consisting of 6 prisms placed on two wheels, producing 12 various Beam and Flower effects
- SpektraBeam™ - Paradigm-shifting patented effects engine. See it to believe it. The true, monumental breakthrough in effects modules
- Pre-programmed random strobe & pulse effects
- Dimmer: 0 - 100%
- DataSwatch™ filters: pre-programmed 66 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K and 8.000K
- Motorised zoom and focus
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
- AirLOC™ (Less Optical Cleaning) technology greatly reduces the level of airborne particles drawn over the optical elements. This increases the overall performance, light quality and time between routine cleaning and maintenance.
- POLAR+™ for power saving and instant operation in extremely cold weather conditions
- ScanGuard™ - Constantly scanning safety feature with auto-cut to prevent risk of direct source viewing

## Control and programming

- Setting & Addressing: ROBE Navigation System 3 (RNS3)
- Display: QVGA Robe screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, built-in analyser for easy fault finding, NFC app controller
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- Wireless CRMX™ technology from Lumen Radio
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity
- REAP™ - Robe Ethernet Access Portal
- RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring to ensure peak performance
- DMX Protocol modes: 1
- Control channels: 37
- Pan & Tilt resolution: 16 bit
- Colour wheel positioning: 8 or 16 bit
- CMY: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Static gobo wheel positioning: 8 bit
- Prism indexing & rotation: 8 bit
- Focus: 8 or 16 bit
- Dimmer: 8 or 16 bit

## Movement

- Pan movement range 540° with continuous rotation control
- Tilt movement: 265°
- Movement control: Standard and Speed
- Controllable speed of Pan & Tilt movement
- Automatic Pan & Tilt position correction
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)
- MAPS™ - Motionless absolute positioning system for Pan and Tilt (Patented)

## Rotating gobos

- Glass gobos: 9 rotating gobos + open
- Outside diameter: 15.9 mm
- Image diameter: 12.5 mm
- Thickness: 1.1 mm
- High temperature borofloat or better glass
- Patented slot & lock system for easy replacement of gobos

## Static gobos

- Aluminium wheel with fixed gobos: 10 gobos & 4 beam reducers + open position

## Thermal specification

- Maximum ambient temperature: 50°C (122°F)
- Maximum surface temperature: 100°C (212°F)
- Minimum operating temperature: -50°C (-58°F)
- Total heat dissipation: max. 1790 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: max. 700 W
- Power connector in: IP65 Neutrik powerCON TRUE1
- DMX and RDM data in/out: IP65 Locking 5-pin XLR connectors
- Ethernet port in/out: IP65 RJ45, for Embedded Epass™ switch 10/100 Mbps

## Approvals

- CE Compliant
- cETLus Compliant (pending)

## Mechanical specification

- Height: 830 mm (32.7") - Head in vertical position
- Width: 542 mm (21.34") - Head in vertical position
- Depth: 392 mm (15.44")
- Weight: 54.4 kg (120 lbs)
- Ingress protection rating: IP65

## Rigging

- Mounting positions: Horizontally
- Universal operating position
- Mounting points: 2 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Pan & Tilt transport locks
- Safety cable attachment point

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs: 10980033
- Power cord including powerCON TRUE1 In connector:
  - US:13052277-01
  - EU:13052276-01
- Lens Cover: 10981075

## Optional accessories

- Doughty Trigger Clamp: 17030386
- Safety wire 100 kg: 99011964
- Single Top Loader Case: 10120341-02

## Legal

- iBOLT™ is a Trademark of Robe lighting s. r. o.
- iBOLT™ is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents

## Gobos&Colours

### Rotating Gobo Wheel



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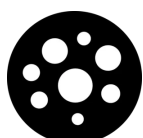


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### Fixed Gobo Wheel, Detail



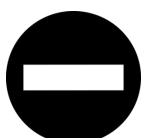
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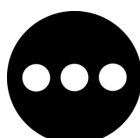
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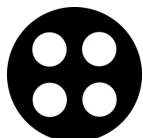
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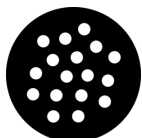
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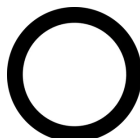
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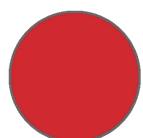


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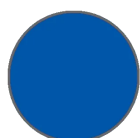


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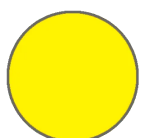
### Colour Wheel



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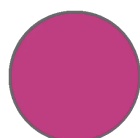
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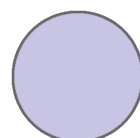
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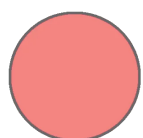
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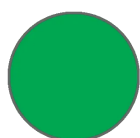
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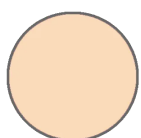
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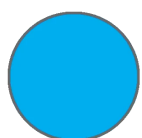
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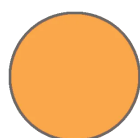
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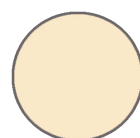
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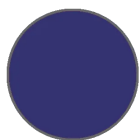
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