

# iBOLT™

The time has come to make outdoor lighting statements like never before. Now you can not only reach the sky, you can dominate it with the ultra-powerful Robe iBOLT™!

**Light source**

LSW-5™ 500W White Laser Source

**Light output**

120.000 lx @ 100 m

**Zoom range**

0.4° - 8.5°

**Effects**

Iris, 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 with this phosphor-laser sourced luminaire. Highly and actively protected to operate in all environments, iBOLT™ projections are visible from kilometres away. Such brilliance demands attention!

Generating such incredible power, the perfectly safe LSW-5™ engine, with its white 500W Phosphor Laser source, emits an incoherent beam light with an intensity of 120.000 lux @ 100 m. With such remarkable output, iBOLT™ ensures ultimate contrast with the night sky for maximum impact.

With a large 300mm front lens creating such presence, the optics deliver ultimate, incisive beam definition. iBOLT™ has a zoom ratio of 21:1 with a zoom range of 0.4° - 8.5°, guaranteeing the creation of spell-binding aerial shafts of light.

To maximise colour options, iBOLT™ features a CMY colour mixing system and a colour wheel containing 13 dichroic colours. With the onboard DataSwatch™ colour library containing 66 pre-programmed colours, including the most common 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. Combined with 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.

To swirl around the sky iBOLT™ features a 540° pan indexing range that can be easily switched to a continuous PAN rotation unlocking a plethora of effects previously deemed unattainable.

The MAPS™ Motionless Absolute Positioning System removes the need for pre-use pan and tilt calibration movement. EMS™ Electronic Motion Stabilizer technology negates fixture hysteresis and enables instant stopping, removing irritating beam shake often associated with larger fixtures, giving total control of your skyward projections.

Ensuring operation in all environments, iBOLT™ contains the most advanced, patented IP65 protection available. At the heart of the protection is RAINS™ Robe Automatic Ingress Protection System. This highly advanced patented technology not only prevents ingress, it actively manages the fixture's internal microclimate, removing internal moisture build-up caused by constant heating and cooling to provide maximum protection for electronics.

The luminaire runs an ingenious Self Pressure Test to check internal pressure. Requiring no special tools and taking under 3 minutes, the test provides an error message where gaskets and covers were not replaced correctly or locking screws incorrectly tightened, ensuring maximum protection.

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

With such power, the intense light levels of iBOLT™ require additional safety measures. Our patented, constantly scanning ScanGuard™ system instantly reduces fixture output if someone gets within an unsafe viewing distance.

Ideally suited for remote outdoor installations, REAP™ Robe Ethernet Access Portal communication software, viewed as a web browser, shows realtime fixture monitoring of all parameters, including complete RAINS™ status information such as pressure and internal saturation levels.

By including NFC Near-Field Communication technology, you can access setup, diagnostic and performance features, even without power, directly from your mobile device using the Robe Com app.

## **iBOLT™ - Dominate the sky**

# Technical Specification

## Source

- Light source type: LSW-5™ 500W White Laser Source

## Optical system

- Robe's proprietary optical design (Patent pending)
- Zoom optical system: 21:1
- Zoom range: 0.4° - 8.5°
- Output lens diameter: 300 mm
- Fixture total lumen output: TBD lm
- Illuminance: 120.000 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
- SpecktraBeam™ - 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
- MAPS™ - Motionless absolute positioning system for Pan & Tilt (Patented)
- ScanGuard™ - Constantly scanning safety feature with auto-cut to prevent risk of direct source viewing

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- 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
- Power cord including powerCON TRUE1 In connector:
  - US:13052277-01
  - EU:13052276-01

## Optional accessories

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

## 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