# HY B-Eye K15 Aqua

## Shield Family (IP66)

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The HY B-Eye K15 Aqua represents a significant upgrade from the latest HY B-Eye K15, setting innovation and light output standards while maintaining an unmatched IP66 rating. An original optical unit is at its heart that improves uniformity and light output efficiency. The patented pending **Advanced Layer Management** system is a new innovation that seamlessly blends three different layers at once. HY B-Eye K15 Aqua is reliable and effective, whatever the weather! The rotating front lens and individual LED control unleash a mesmerizing world of kaleidoscopic projections and captivating eye-candy effects. This innovation simplifies complex macro effects, making it an all-in-one lighting solution: a powerful LED wash, a flawless beam, and a jaw-dropping visual effects projector – all in a single fixture. The 40W RGBW LED engine delivers unbeatable performance, ensuring a brilliant display, even on the largest venues. HY B-EYE K15 Aqua is more powerful, efficient, intelligent, versatile, and weatherproof than ever before! Discover the HY B-EYE K15 Aqua, where power, precision, and performance come together to deliver unforgettable lighting experiences in any weather! What makes the HY B-Eye K15 Aqua stand out? **Dynamic Precision**: featuring a bi-directional rotating front lens and individual LED control, the HY B-Eye K15 Aqua simplifies complex effects creation with an advanced engine for mesmerizing visual displays. **Enhanced Effects**: our Advanced Multi-Layer Management system enables the simultaneous creation of multiple effects, elevating show dynamics through seamless management of three different layers (background, built-in macros, external video contents). **Optimized Efficiency**: custom-made lenses optimize light collection, seamlessly blending LEDs to deliver efficient and sustainable illumination, setting new standards in brightness and energy efficiency. **IP66 Certified**: Claypaky's Shield Family, including the HY B-Eye K15 Aqua, offers weather- and dust-resistant lighting solutions with IP66 certification, ensuring durability and minimal maintenance.

## Specifications

- **Light Source**
  19 x RGBW LED driven at 40W

- **Zoom range**

4.7°-46°

- **Effects**
  Three operating modes: wash, beam, FX (Kaleido effects); Bi-directional Rotating Front Lens; Digital Wash-Beam Framing effect; Beam edge softening control (in Wash mode); Pixel Patterning Macros with enhanced control; White CT Emulation 2500-8000K; Automatic adjustment of RGBW mixing to simulate light sources with color temperatures; Tungsten Lamp Emulation; Control of each single LED (Pixel Mapping)

## Light Source Type

**Source type**

RGBW LEDs

**Power**

40W (x19)

**CRI**

Up to 70

**Color temperature**

2400 to 9500 K

**LED life expectancy**

50000 hrs L70*

*It may vary depending on various factors, as type of use and environment

## Photometric Data

**Zoom range**

4.7° – 46°

**Lumen Output**

13500 (Integrating sphere)

**Optical system**

Patented 19 lens system

## Noise Level

**Controled by**

Able to control linearly the speed of the fans

**Fixed presets**

- Auto mode: 42.3 dB
- Silent Mode: 39.4 dB
- Constant Mode: 44.7dB
- Theatre mode: 39.3 dB

## Control and Connections

**Personalities**

- Basic engine: 21/22/35/36/37
- Pixel engine: 57/76

**Control protocol**

DMX, Art-Net, RDM, sACN, CRMX lumen radio

**Connectors**

Locking 5 pin XLR IN/THRU

**Ethernet port**

RJ45 IN

**Power connector**

PowerCon True1 IN/OUT

**Web Server**

Built In

**CloudIO**

- Fully compatible
- On-field calibration for color consistency

## Dynamic Effects

**Colors**

- Built-in macros with enhanced pixel control
- Preset colors
- Dedicated channel for color temperature setting
- White CT Emulation 2500-8000K
- RGBW auto-tuning to lamp CT Emulation
- Tungsten Lamp Emulation

**Rotating Effects**

Bi-directional rotating front lenses

**Movement**

- Tilt: 248° (16 bit)
- Pan: 540° (16 bit)
- Automatic repositioning
- Mechanical Pan/Tilt lock for safe transportation and maintenance

**Beam**

Beam edge softening control (in wash mode)

**Dimmer/Shutter**

- 0-100% linear electronic dimmer
- Adjustable speed stop/strobe effect with instantaneous blackout
- Slow strobe: 1 flash/sec
- Fast strobe: 25 flash/sec
- High resolution electronic dimmer – 24 bit, 4 curves

## Hardware and Software

- Long life self-charging battery
- Display graphic LCD backlit B/W display
- Firmware upload from another fixture
- Firmware upgrade via Web Server
- Diagnostic
- DMX monitoring

- Remote access through RDM

## Housing

- Aluminium and steel structure with plastic covers
- Two side handles for transportation
- IP66 protection rate
- Working in any position
- Hanging system: with fast-lock Omega clamps (1/4 turn) on the base
- Optional safety chain
- Marine grade protection

## Electrical

**Operating Voltage**

100-240V, 50/60 Hz

**Power Supply**

Electronic auto range with active PFC

**Max Power consumption**

680W

## Thermal Specification

**Max ambient temperature**

45°C (113°F)

**Min ambient temperature**

-20°C (-4°F)

**Max temperature of the external surface**

90°C (194°F)

**Total heat dissipation**

2596 BTU/hr ±10% / 2736 kJ/hr ±10%

## Saftey Specs

| | |
|---|---|
| **Minimum distance of illuminated objects** | 0.2 m (8'') |
| **Minimum distance from flammable materials** | 0.2 meters (8") |
| | 5×20 delayed fuse |
| | Thermally protected power supply (overheating and cooling failure) |
| | Forced ventilation with axial fans |

## Compliance

| | |
|---|---|
| **CE Marking (in conformity to the following)** | • 2014/53/EU – Radio Equipment Directive (RED)<br>• 2011/65/EU – Restriction of the use of certain hazardous substances (RoHS)<br>• 2009/125/EC – EcoDesign requirements for Energy-related Products (ErP) |
| **UKCA conforms to UK regulations** | • S.I. 2017 N.1206<br>• S.I. 2012 N.3032<br>• S.I. 2021 N.745 |
| **cMETus LISTED** | • UL1573<br>• CSA C22.2 N. 166:15 |

## Packaging

| | |
|---|---|
| **Carton box + Polystyrene** | |

**Carton box + Foam shell**

**Flight case + Foam shell (4 position)**

## Weight - Size

**Weight**

- 27,8 Kg
- 61,3 lbs

**Base dimensions**

- 295 x 390 mm
- 11.61 x 15,35 in

**Height with vertical head (h)**

- 573 mm
- 22,56 in

**Distance between two fixtures**

600 mm

## Accessories

**Omega clamps**

2×183102/805 (Included)

**ETL Power**

CAB02B/802 (Included)

**Foam shell**

F21342/001 (Optional)

**Flight case (4 positions) + Foam shell**

CF1026F (Optional)

**CRMX antenna extension**

ANT004 (Optional)

**Safety Chain**

105041/001 (Optional)

**Clamp**

C21070 (Optional)