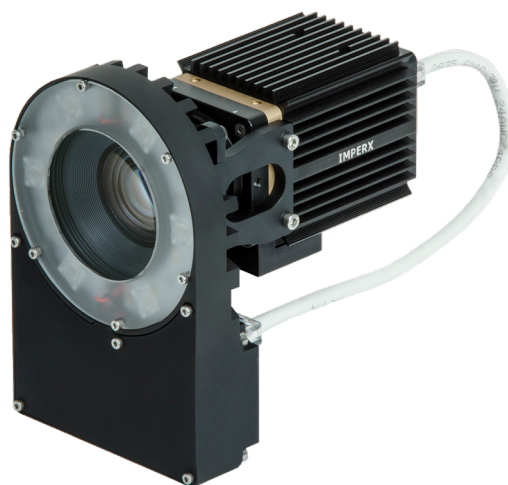# LED Ring Light
## Power over Ethernet (PoE)

## Imperx: *LED PoE Ring Light*

The LED Power over Ethernet (PoE) Ring Light is the latest innovation from IMPERX to simplify LED installation with minimal cabling. Using a patent-pending design, Ring Light power is derived from a PoE interface in which power and data are passed through to an adjoining PoE camera. While the LED PoE Ring Light can be used with any PoE camera, Imperx Cheetah and Bobcat cameras have a built-in pulse generator function that can be used to provide PWM intensity control.

## Specifications

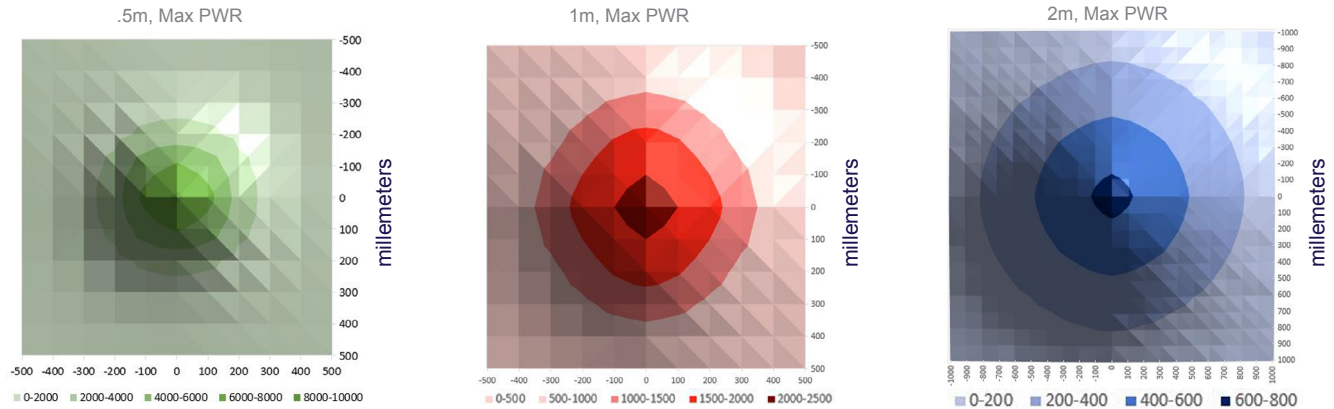| Feature | Description |
|---|---|
| General | LED Ring Light with PoE Pass Thru or DC Power input |
| Camera Power Output | 24/12Vdc; (6W to 12W) *(see table)* |
| Electrical Input | PoE, PoE+, EXT 24Vdc adapter |
| Strobe Input | TTL and open collector (NPN) compatible |
| Signal Compatibility | DC to 10kHz (PWM mode), active low (off) |
| Operating Modes | Continuous, strobe or PWM dimming |
| Camera Compatibility | Any Cheetah or Bobcat C-Mount GEV camera |
| Local Control | Rotary switch, adjustable from 20% to 100% (15 steps) |
| Remote Control | Strobe or PWM input for 0 to 100% dimming |
| Peak Light Intensity | 15,000 lux @ .3m, 10,000 lux @ .5m |
| Working Distance | .5m to 5m |
| Connectors | RJ45 for PoE connection and camera data, Weidmüller OMNIMATE B2L 3.50F 6-position connector for remote power and user-supplied external power supply (optional) |
| IP Rating | IP50 |
| Housing Material | Aluminum |
| Operation Temperature | -20°C to +50°C |
| Storage Temperature | +20°C to +70°C |
| Dimensions - Outside | 86.0 x 34.8 x 130.0 |
| Dimensions - Inside Opening | 50.0 mm diameter |
| Weight | 285g |
| Regulatory | CE, FCC |
| Available Lighting Colors | Standard: WHT-cool<br>Custom: Green, Blue, UV, IR, WHT-neutral, RED |

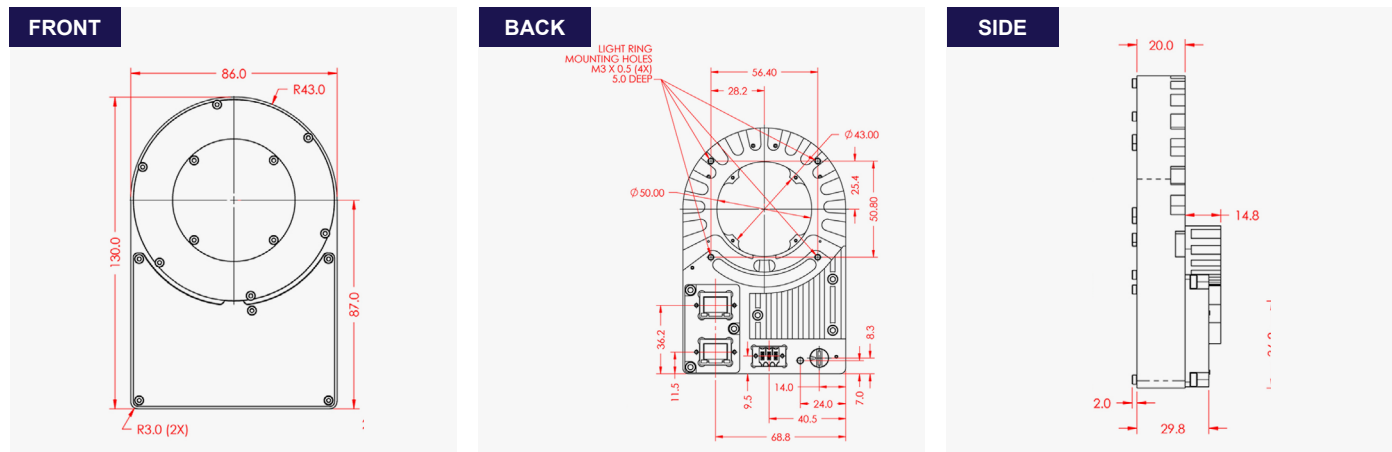### LED Ring Light Mounting Option with Camera

# Imperx: *LED PoE Ring Light: Applications*

Controlled light pattern ● illumination above the ambient level ● Special wavelength light ● Dynamic capability ● fast on/off or level changes ● Light synchronized to camera (strobe) ● Efficient light source (better than incandescent) ● Long life light source much higher MTBF than incandescent ● Compact light source ● More stable illumination (time and temperature) ● Infinitely variable output
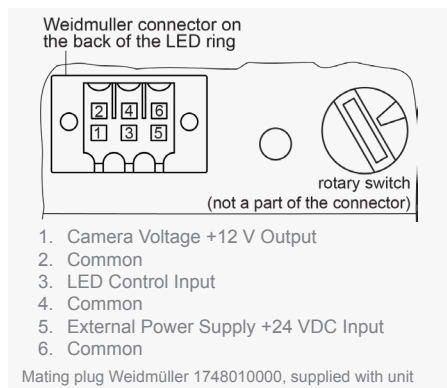
## Light Distribution



.5m, Max PWR

1m, Max PWR

2m, Max PWR

## Dimensions



**FRONT**

**BACK**

**SIDE**

## Weidmüller OMNIMATE B2L 3.50F 6-pin Connector



Weidmuller connector on the back of the LED ring

rotary switch (not a part of the connector)

1. Camera Voltage +12 V Output
2. Common
3. LED Control Input
4. Common
5. External Power Supply +24 VDC Input
6. Common

Mating plug Weidmüller 1748010000, supplied with unit

## Power Options

| Max PWR | LED | CAMERA | SYSTEM |
|---------|-----|--------|--------|
| PoE | 6W | 6W | 15W max |
| PoE + | 14W | 8W | 25W max |
| EXT | 16W | 12W | 30W max |

*Rev: led_ring_light_poe_r3_2022*

## Ordering Information

| Light Type |
|------------|
| LED |

| Body Type |
|-----------|
| Ring - (R) |

| Size |
|------|
| 90mm - (090) |

| LED Lens Angle |
|----------------|
| Medium (Standard) - M |
| Wide (No Lens) - W |

| Power and Control LED Light |
|-----------------------------|
| GEV PoE - (G) |

| Custom ID # |
|-------------|
| (00) IMPERX Assigned |

| Accessories |
|-------------|
| Kit-Mount-LRG - for Imperx Bobcat cameras |
| Kit-Mount-LRG1 - for Imperx Cheetah cameras |
| * All mounting kits include mounting brackets & screws. |
| ** Use with non-Imperx cameras requires modification. |

| LED Color/Spectrum |
|--------------------|
| White Cool (Standard) - 5600K - (WC) |
| White Neutral - 4100K (WN)* |
| Red - 627 nm (RR)* |
| Blue - 470.0 nm (BB)* |
| Green - 530.0 nm (GG)* |
| IR - 850.0 nm (IR)* (wide [no lens] only) |
| UV - 365.0 nm (UV)* (wide [no lens] only) |
| *custom lighting colors* |

| Diffuser |
|----------|
| Matte (Standard) - (0) |
| Clear - (1) |
| Matte/Clear Camera Protection Filter - (2) |
| Clear/Clear Camera Protection Filter - (3) |

**IMPERX**
Industrial Cameras & Imaging Systems