



High power

Large aperture

High Speed

IP67

Easy-to-mount

**Adjustable
angle**



effiRING-LG

Ultra high-power logistic ring light

PART NUMBERING

STANDARD VERSION

| EFFI-RING-LG - ZZZ - WW - PP | | |
|--|---|---|
| Wavelength (nm) | Window | Lens position |
| <ul style="list-style-type: none"> ● 625 (Red) ○ 000 (White) | <ul style="list-style-type: none"> TR (Transparent) SD (Semi-diffuse) | <ul style="list-style-type: none"> P0 (90°) P1 (45°) P2 (25°) P3 (16°) P4 (13°) |

AVAILABLE OPTIONS

| OPTICS | |
|-------------------------------------|--|
| Kit with all diffuser tops | EFFI-RING-LG-ZZZ- KIT <i>Semi-diffusive and transparent tops and polarizers are included with the product. The product is assembled in default configuration semi-diffusive window and position P2.</i> |
| Light polarizer | EFFI-RING-LG-ZZZ-WW-PP- POL <i>Eliminates glares on reflective surfaces. The polarizer is a secondary window positioned under the top window. Specific setup for the semi-diffusive configurations see corresponding page.</i> |
| Light + Camera polarizer (analyzer) | EFFI-RING-LG-ZZZ-WW-PP- POLCAM <i>The full polarizer setup with a second polarizer playing the role of analyzer positioned on the clear aperture.</i> |
| Elliptical lens | EFFI-RING-LG-ZZZ-WW-PP- ELL <i>Optimized lens designed for 16:9 cameras (the light beam is shaped to be adjusted to the area covered by the sensor).</i> |
| Custom wavelength | EFFI-RING-LG- ZZZ -WW-PP <i>Other wavelengths upon request.</i> |
| ELECTRONICS | |
| Camera PoWered | EFFI-RING-LG-ZZZ-WW-PP- CPW <i>Two connectors to power the light by the camera and possibly add extra power with a power supply on the second connector.</i> |
| Customized software | EFFI-RING-LG-ZZZ-WW-PP- SW <i>Customize strobe length, frequency or other parameters upon request.</i> |
| MECHANIC | |
| Side connector | EFFI-RING-LG-ZZZ-WW-PP- SCXXX <i>Position the connector(s) on the side of the product to free the backside.</i> |

TECHNICAL SPECIFICATIONS



| | | |
|----------------------------------|---|---------------------|
| Illumination Mode | Ultra High-Power Strobe (<i>Strobe only</i>) | |
| Wavelengths | White (5500K ±500K) and 625nm - <i>Other wavelength upon request</i> | |
| Power Supply | 24V DC (+/- 10%) | |
| Connector(s) | STANDARD | M12 - 5pins (male) |
| | CPW | 2x M12-5pins (male) |
| Power Consumption | Average 49W Peak 55W | |
| Built-in driver version | MegaStrobe™ feature | |
| Response Time | 600ns (trigger response + rising time) | |
| Frequency | Internal Frequency protection: 150Hz Max - <i>Can be modified via customized software</i> | |
| Strobe duration | Internal Strobe length protection: 400µs Max - <i>Can be modified via customized software</i> | |
| PNP signal | PNP trigger input: Light ON: from 4V to 24V / Max. signal consumption: 2mA | |
| Weight | 1,8kg | |
| Dimensions | Length x width x thickness = (200 x 200 x 48,3) mm | |
| Material | Device body: Aluminum alloy / Window and caps: PMMA | |
| Fastener | 8x M3 holes and 4x M5 holes on the back | |
| IP rating | IP67 (Water and dust proof) | |
| Operation environment | Temperature: 0°C to 40°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m | |
| Storage environment | Temperature: -10° to 60°C - Humidity: 20 to 85%RH (with no condensation) | |
| Informations | Overvoltage category I - Protective class III - Pollution degree 3 | |
| Regulations & Marking | CE - UKCA - FCC - ICES-3/NMB-3 - cTÜVus (The supply of the device has to fulfill SELV and Limited Energy according IEC 61010-1 9.4) | |
| Environmental Standards | RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation | |
| Country of Origin | France | |

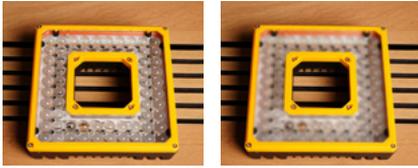
OPTICAL SPECIFICATIONS

MAXIMUM FLEXIBILITY

2 Diffusers

TR : Transparent

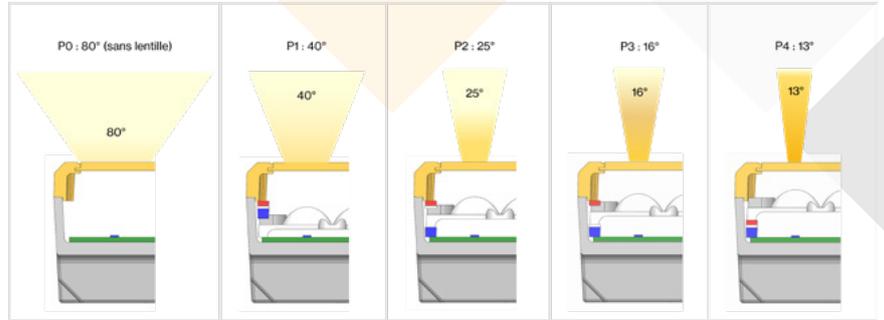
SD : Semi-diffuse



Depending on the uniformity/power ratio needed for the application, the user can easily change the diffuser to one that fulfills the application requirements.

Lens position

The EFFI-RING-LG is the most flexible ringlight of the market offering a perfect control over the beam angle. The lens position can be easily adjusted with our SmartShapes™ interchanging system.



Flexibility within reach

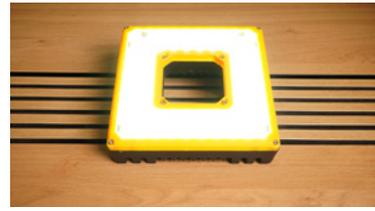
With the SmartShapes™ interchanging system, we have made it even easier to adjust the beam angle of the product and adapt it to your setup.



Unscrew the captive screws and take off the cap.



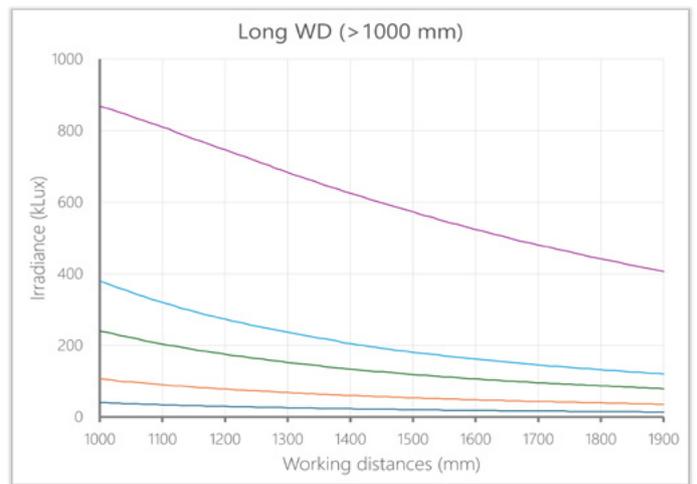
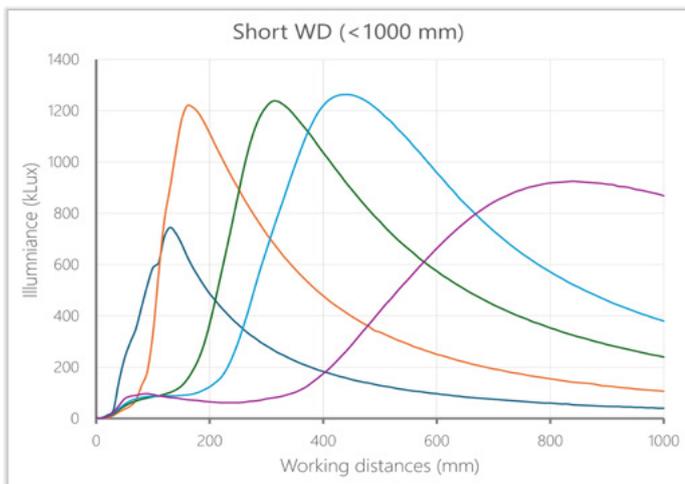
Choose the right cap and position the lens inbetween the right shapes.



Put everything back inside, and screw back the top.

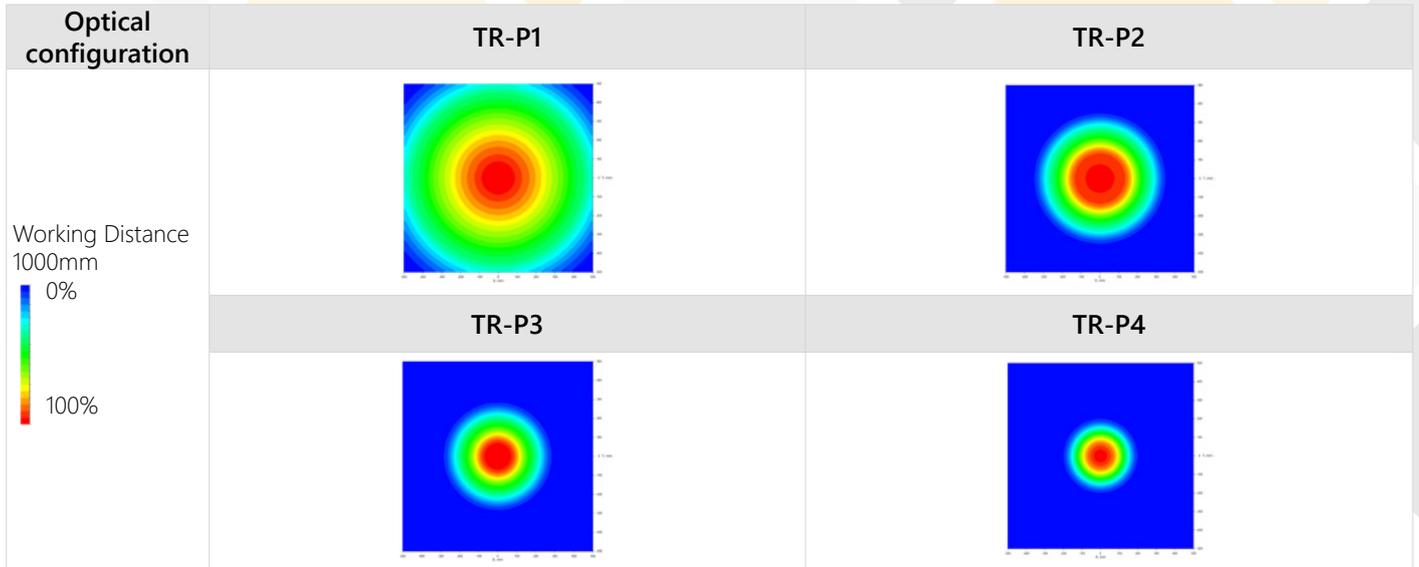
OPTICAL PERFORMANCES

Illuminance vs working distance



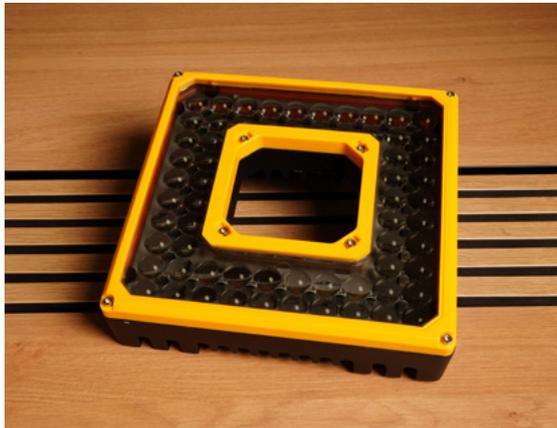
— P0 (no lens) — P1 — P2 — P3 — P4

Homogeneity



Note: Measurement done with a white light, TR cap

OPTION: POLARIZER ACCESSORY



Using polarizers, on the Efflux light and on the camera, it is possible to eliminate glare from your workpiece making it easier to acquire a suitable image for the application.

The user can insert directly the polarizer inside the EFFI-Flex-LG, under the window.



Without polarizer

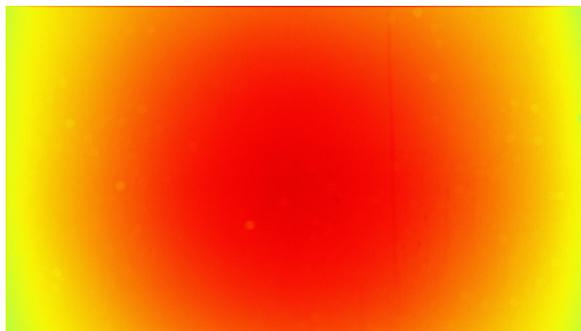


With polarizer

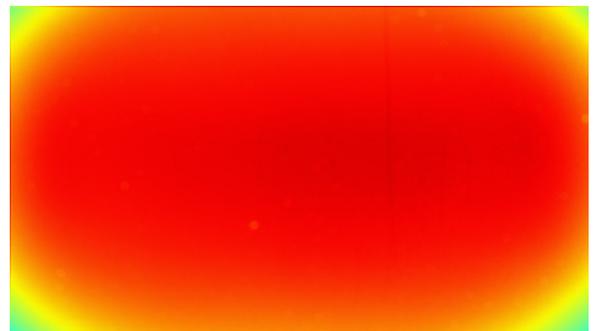
OPTION: ELLIPTICAL LENS

Made for 16:9 sensors and offering 15% more intensity

This lens has been specifically designed to match with the rectangular field of view of cameras.



Standard Lens



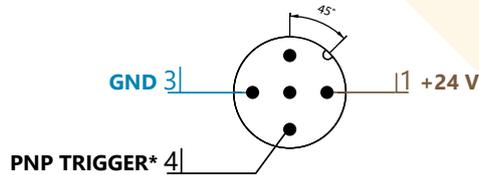
Elliptical Lens

ELECTRONICAL SPECIFICATIONS

WIRING LAYOUT - STANDARD CONNECTOR VERSION

- The EFFI-Flex-LG requires 24V DC input power.
- The trigger pin needs to be connected to a PNP trigger signal.
- If a continuous signal is applied to the PNP trigger pin, the output light is strobed by default at maximum Frequency and Strobe length (150 Hz - 400 μ s), although it appears continuous for human eye.

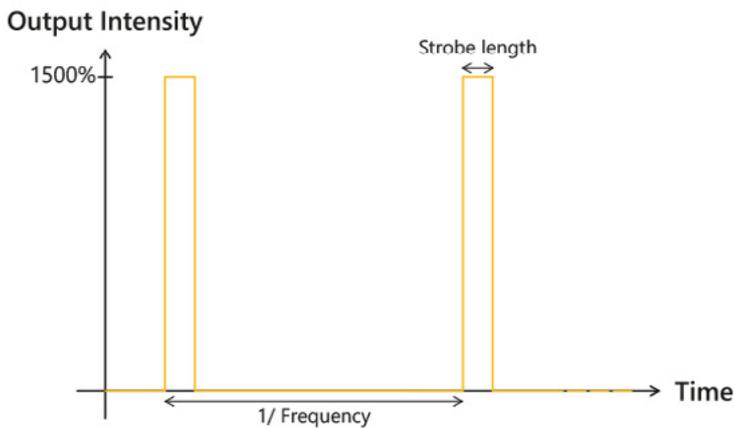
M12 5pins - 1 input



| Average power consumption | Peak power consumption |
|---------------------------|------------------------|
| 49W | 55W |

MEGASTROBE FEATURE

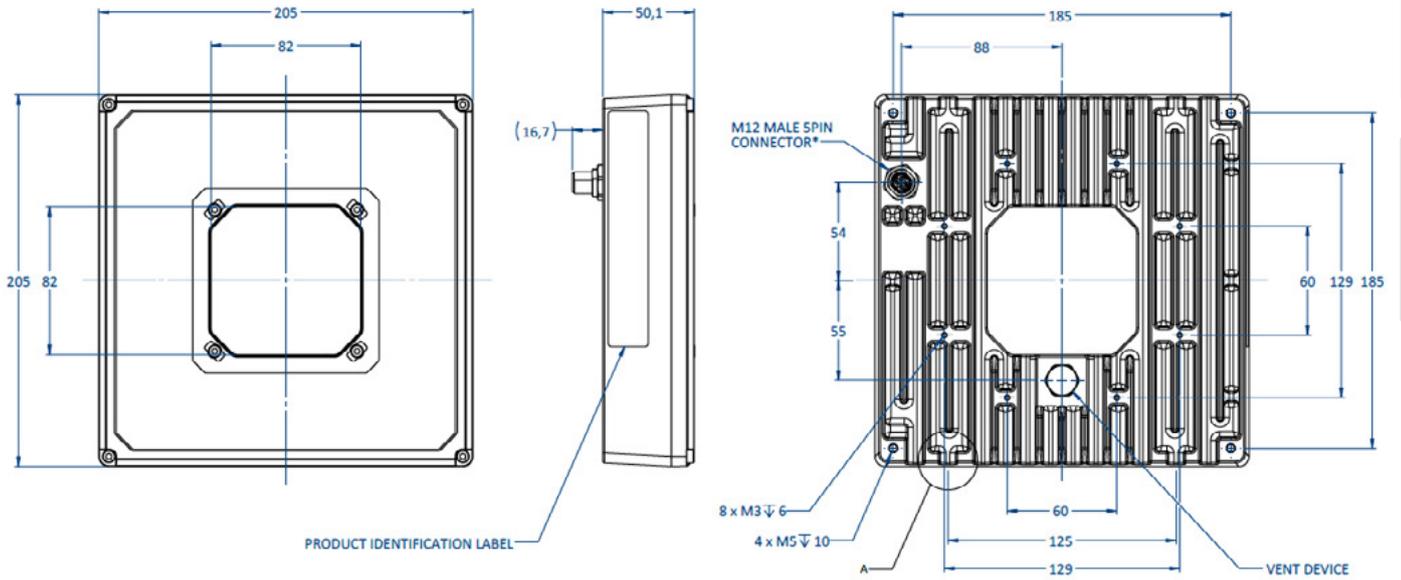
The integrated driver with MegaStrobe feature allows Ultra high-power strobes.



| Specifications | |
|--|-----------------|
| Strobing time (internal protection) | 400 μ s max |
| Frequency (internal protection) | 150Hz max |
| Total response time (trig response + rising) | 600 ns |
| Falling time | 1.2 μ s |

MECHANICAL SPECIFICATIONS

DIMENSIONS (in mm)



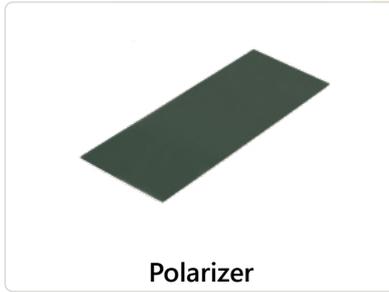
ACCESSORIES

Please refer to the specific documentation for additional information on the accessories of the EFFI-RING-LG.



Caps

Transparent: EFFO-RING-LG-TR
Semi-diffuse: EFFO-RING-LG-SD



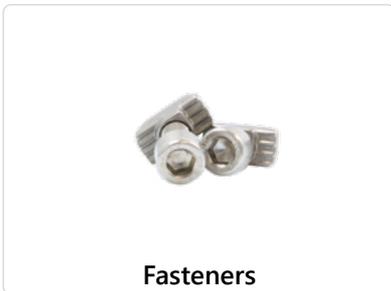
Polarizer

Transparent: EFFO-RING-LG-TR-POL
Semi-diffuse: EFFO-RING-LG-SD-POL
For camera: EFFO-RING-LG-POLCAM
Full kit : EFFO-RING-LG-KIT



Extension Cables

2meters: EFFC-CAB-M12-FM-5-DD-L2
5meters: EFFC-CAB-M12-FM-5-DD-L5
10meters: EFFC-CAB-M12-FM-5-DD-L10



Fasteners

T-Nut Kit: EFFV-BOLT-0011
Pivot joint Kit: EFFM-1-0002



Power supplies

Power supply: EFFI-PWR- ...
Compact power supply:
EFFI-SPWR-090W-24V-102-YY**



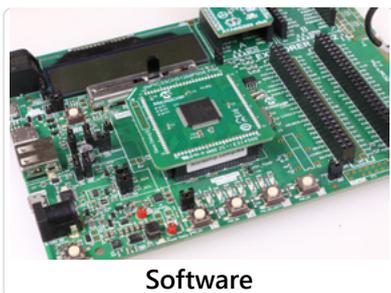
Camera Filters

EFFO-FLR-...

*YY = Type of outlet UK, CH, EU, US, ...

CUSTOMIZATION

Please ask your sales contact for a custom device.



Software

CONTACT INFORMATION

Please refer to the specific documentation (datasheet, user manual and drawing) for complementary information. Contents of this document are based on information available as of Jan-2026 and may be changed without prior notice.



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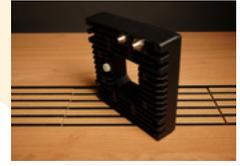
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ANNEX: CPW CONNECTOR VERSION

SMARTSENSE FUNCTION

The EFFI-RING-LG CPW version makes it possible to 2 operating modes and 2 M12 connectors. Depending on the wiring, the light can be used either with direct connection to the camera or with an additional external power supply for longer strobes.



A custom software is needed to define those two specific modes, depending on the camera and external power supply characteristics.

The EFFI-RING-LG CPW detects **automatically** the operating mode, Thanks to this function, the user can easily shift from standard mode to power mode (longer strobes) just by connecting the additional power supply:

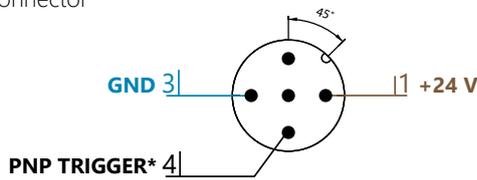
- **Mode 1** (Direct connection): Connect only the **Main connector** to the camera to allow a 100 μ s strobe with 1.5% duty cycle (6% standard version).
- **Mode 2** (Longer strobe pulse): Connect also the **Auxiliary connector** to an external power supply to allow a 200 μ s strobe with 3% duty cycle (6% standard version).

WIRING LAYOUT - EXTERNAL POWER SUPPLY CONNECTOR VERSION

The EFFI-RING-LG CPW requires 24V DC input power. Note the trigger pin needs to be connected to a PNP trigger signal.

M12 - 5 pins - MAIN CONNECTOR (camera)

male connector



M12 - 5 pins - AUXILIARY CONNECTOR

male connector

