

# Area Flash Light LG1010FL - Technical data



- LED Area Light for flash operation
- light field 100 mm x 100 mm
- light guide technology with 10 laterally coupled Power LED
- highly diffused backlight or directed homogeneous collimated light
- integrated illumination controller
- brightness can be regulated internally (potentiometer) or externally with a VC analogue input
- adjustable flash times up to 220 µs
- extremely fast trigger inputs for synchronous and precise flash for parallel image acquisition
- robust industrial model, Aluminium casing, IP67
- 150 mm cable with an M16 12-pin plug
- drag chain connection cable with an M16 12-pin socket in different lengths available as accessory [↪ please note page 211 of the main product catalogue](#)

With the following table you can assemble your desired type of lighting:\*

\* A detailed product key explanation can be found on [↪ Page 4](#) of the main product catalogue.

Available illumination variants					
Model	Diffusing panel	Illumination colour	Brightness regulation	Trigger	Flash time
LG1010FL	DL, KOL	R IR850 W B (on request) G (on request)	Potentiometer, VC	SPS TTL	100 220

<b>Operation mode</b>	Flash	
<b>Operation voltage</b>	19...30 V DC	wide range voltage input
<b>Max. current</b>	0,5 A	at 24 V
<b>Trigger modes</b>	TTL / SPS	TTL: rising slope at trigger input, min. 3 V DC, max. 30 V DC SPS: rising slope at trigger input, min. 15 V DC, max. 30 V DC
<b>Flash times</b>	10 - 100 µs / 20 - 220 µs	adjustable with potentiometer, max. flash frequency 100 Hz or 35 Hz
<b>Brightness regulation</b>	Potentiometer / VC	Potentiometer: 0...100 % (deactivated with VC - models) or VC: 0 – 100 % with VC-analogue input 2...10 V DC VC-voltage > 1 VDC -> potentiometer deactivated automatically, recommendation: turn the potentiometer fully anti-clockwise (left)
<b>Ambient temperature</b>	5 - 45 °C / 37 - 113 °F	
<b>Weight</b>	0,8 kg	
<b>Protection class</b>	IP67	
<b>Connection</b>	M16 12-pin plug	150 mm drag chain cable with an M16 12-pin plug, IP67

Pin arrangement M16 plug			
A+K	white	GND	GND Operation voltage
B+L	brown	U <sub>B</sub>	Operation voltage
C	green	NC	NC
D	yellow	VC	Brightness regulation 2...10 V DC
E	grey	+Trigger TTL	Flash input TTL > 3 V DC, rising slope
F	pink	+Trigger SPS	Flash input SPS > 15 V DC, rising slope
G	blue	GND Trigger	GND trigger circuit
H	Shield	Shield	Shield connection
J	nc	NC	NC
M	nc	NC	NC

**LIFETIME  
75.000h+**

**x=0,31  
y=0,31**

850nm

625nm

528nm\*

470nm\*

\*on request

**IP 67**

**Strobe / Flash**

**CONTROLLER  
INSIDE**

*Price list: page 244 of the main product catalogue*

*T1-Adapter cable:  
starting on page 212 of the main product catalogue*

## Area Flash Light LG1010FL - Technical drawing

