

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

Operation mode	Flash	
Operation voltage	19...30 V DC	wide range voltage input
Max. current	0,5 A	at 24 V
Trigger modes	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
Flash times	10 - 100 µs / 20 - 220 µs	adjustable with potentiometer, max. flash frequency 100 Hz or 35 Hz
Brightness regulation	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)
Ambient temperature	5 - 45 °C / 37 - 113 °F	
Weight	0,8 kg	
Protection class	IP67	
Connection	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 _B	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

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

