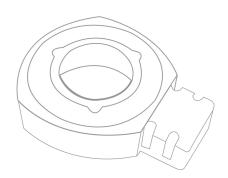
ADJUSTABLE BEAM ANGLE RING LIGHT

_ELR SERIES



The ELR is an high power ring light.

By changing the position of the lens in a very smart way, the user can focus more or less the light beam.

Thanks to the **autostrobe integrated driver**, the ELR can deliver up to 7 more illuminance during a short time duration before going to continuous mode.

DESCRIPTION

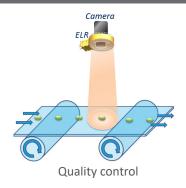
Very intense and uniform illuminated area Full range of color : from UV to IR, white Long lifetime and few maintenance Compatible with most objectives

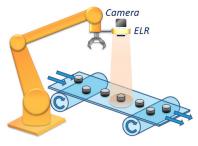
Flexible: Adjustable illumination angles (4 angles) & different windows



Electronics	Connector	M12 - 5 contacts	M8 - 4 contacts		
	Power supply	24V DC	Direct current (No driver = No protection)		
	Illumination mode	Strobe or continuous mode			
	Power consumption	72 W	Depending on your configuration		
Optics	Wavelength	White, UV, Blue, Green, Red, IR			
	Weight	400g			
Mechanics	Witdh x height	117 mm x 151 mm x 40 mm			
Mechanics	Fastener	M4 screw (4 on heat sink & 4 on outgrowth)			
	Material	Device body: Aluminum alloy & ABS; Window: PMMA			
	Working temperature	0° to 40° C			
Environment	IP code	IP65 For extended use with water please ensure to use a plastic cap on the unused connector (M8 or M12)			

APPLICATIONS





Pick & place

DIRECT ILLUMINATION

OPTICAL FLEXIBILITY

Window

The ELR offers different types of interchangeable windows to find a good compromise between power and homogeneity depending on the nature of the object to control.

Clear window (CW)

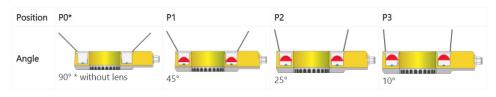




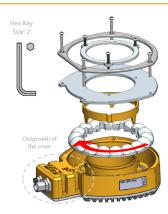
Lens Position

The ELR offers 4 lens configurations, manually adjustable to change the emission angle.





How to change the configuration of the ELR



The numbers 1, 2 and 3 are inscribed in the lens and correspond to the lens position. Match the number of the desired position lens with the outgrowth of the cover.



Example: Lens position P3

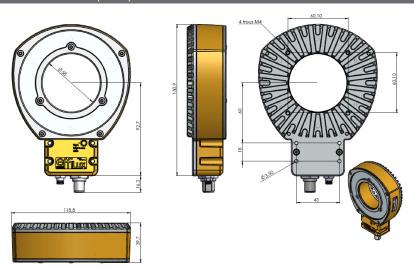
Optical options

The optical accessory *Polarizer* eliminates glare caused by the lighting on parts to control. The camera can then analyze the part, without being disturbed by the glow effects.





DIMENSIONS (MM)



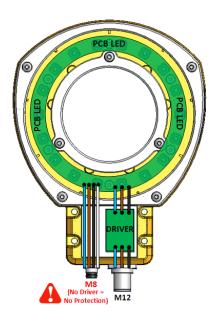
ELECTRONICAL CONSIDERATION

Contact arrangement

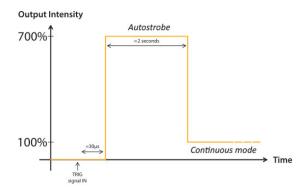
The ELR is supplied with a 24V constant voltage through the M12-5 contacts (male), the trigger contact needs to be connected and with a direct current through the M8-8 contacts (male).

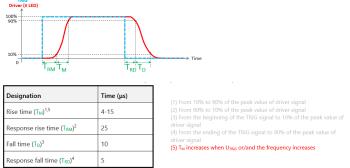
M12 connector - Smart control (Auto-strobe)					
Contact arrangement	Number	Color Contact	Designation		
→ 45°	1	Brown	+24V		
1	2	White	n.a.		
3 1	3	Blue	GND		
41	4	Black	PNP TRIGGER [trigger for rising edge] for Auto-strobe max 24V - Analog Voltage		
M12 male connector	5	Grey	n.a.		

M8 connector - Direct control					
Contact arrangement	Number	Color Contact	Designation		
	1	Brown	+V _{common}		
	2	White	GND1		
	3	Blue	GND2		
M8 male connector	4	Black	GND3		



Autostrobe feature (M12 connector)





Direct current (M8 connector)

	F (Hz)					
T pulse (μs)	1	5	10	15	20	
100 000	1.0 A					
50 000	1.2A					
10 000	1.5 A		1.0 A			
1000			2.0	Α		
100	2.5 A					

Be aware that the maximum current for a given frequency and a given $\mathsf{T}_{\text{pulse}}$ cannot be exceeded.

DIRECT ILLUMINATION

PRODUCT LINE UP - PACKAGES

The standard ELR is delivered in a package.

The package contains the ELR in the classic configuration with the SD window and the lenses at the position P2 and the other

windows (CW and DF):



Part Number

Series	Part Number	Color	Wavelength / Color Power Consum temperature Strobe	Power Consumption (with M12 connector)		Connectors	Weight
Series	r dre rediniser	20101		Strobe	Continuous	Connectors	110.01
ELR	ELR-100SW	White	5500 K ± 500 K	72	15	M12 & M8	400g
ELR	ELR-100UV	Ultraviolet	405nm	72	15	M12 & M8	400g
ELR	ELR-100BL	Blue	465nm	72	15	M12 & M8	400g
ELR	ELR-100GR	Green	525nm	72	15	M12 & M8	400g
ELR	ELR-100RD	Red	625nm	72	15	M12 & M8	400g
ELR	ELR-100IR	Infrared	850nm	72	15	M12 & M8	400g

OPTICAL ACCESSORIES

Polarizer				
PL-ELR-100	ELR-100			

For cables cf. the datasheet of the ECB cables series.

For fasteners and camera supports cf. the datasheet of the BK fasteners series.

CUSTOM - ON REQUEST

OPTIONS AVAILABLE ON REQUEST





EU DIRECTIVE



In accordance with EU machinery directive, EMC directive, and low voltage directive, machines and electronic devices not marked with the CE logo are subject to distribution restrictions within the EU. All EL Series products. These products will maintain the EU mandate compatibility of our customers' machinery and electronic devices.

ROHS DIRECTIVE

All products from the EL Series comply with the RoHS Directive.