

# Standard ring lights

SRL Series

Innovative LED lighting  
for machine vision



Ring light illumination  
in three diameters and various colors

- ⇒ High light efficiency
- ⇒ LED controller inside
- ⇒ Easy-to-use
- ⇒ Cost saving

Ring lights are standard illumination lights for various applications. Mounted in front of the camera lenses compact inspection units are possible. The new flexible controller concept allows an easy adaptation to different operation modes.

# Ring lightings - SRL Series

## Easy-to-use for various applications

Ring lights can be used in many different ways. Mounted as direct illumination on non-reflective objects it creates high contrast images. Used at an ideal height and with a difusor it can provide light from all around the camera lens avoiding shadows on certain objects. It is ideal when the setup space is limited or for mounting it as inspection head together with the camera onto a movable robot arm.

All illuminations of the SRL series are designed for use in the automation industry: the LEDs are installed in a stable, black anodized aluminum housing, the radiation is emitted through a protective acrylic glass screen and the electrical connection is made via an M8 connector, which is widely used in the automation industry.

With the optional foil holder additional optical filters can easily be attached to the lighting. Available filters for ring lights are a wide diffusion and a polarization filter. With the matching light/camera mount compact inspection heads can be achieved.

MBJ offers white 5000K (CRI80), red, infrared, green, blue, and yellow LED colors in the standard program, with the white, red, and infrared LED being available from stock.



The SRL series is equipped with four threaded through holes for easy mounting. On the rear side of the light are fixing points for the optional light/camera mount and the filter holder. For all our lighting 2D and 3D files are available for download on our website.

### Specification

<b>Material</b>	Anodized aluminum housing	<b>Certifications</b>	CE, RoHS
<b>Connector</b>	M8 socket, male, 4 pin	<b>Degree of Protection</b>	IP54
<b>Supply voltage</b>	24 V DC +/- 5%	<b>Humidity</b>	30% to 70%
<b>Op. Temperature</b>	10° Celsius to 30° Celsius	<b>Accessories</b>	Mountings, Filterholder, Filters

Standard Model	Light field (D <sub>i</sub> -D <sub>A</sub> )	Dimension	LED color <sup>1</sup>	Steady power	Price from <sup>2</sup>
SRL-04	36 mm - 52 mm	60x60x12 mm	WT, RD, IR, GN, BE, YE	3.0 W	120 €
SRL-07	53 mm - 72 mm	80x92x12 mm	WT, RD, IR, GN, BE, YE	6.0 W	165 €
SRL-012	87 mm - 121 mm	130x141x14 mm	WT, RD, IR, GN, BE, YE	11.0 W	280 €

1) WT=white, RD= red, IR= infrared, GN=green, BE=blue, YE=yellow. Other LED colors on request

2) Price for a white LED, plus VAT and transportation costs

Operation Modes	Mode description
(-s) internal controller with 4 operation modes	24V steady light, dimmable steady light, triggered light and triggered flash light with up to 100% more intensity
(-x) no controller	External LED control is required

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MBJ Imaging GmbH  
Jochim-Klindt-Straße 7  
D-22926 Ahrensburg

Phone +49 410 277 890 30  
Email sales@mbj-imaging.com  
www.mbj-imaging.com