

50mm Dia IR Ring Light 850nm

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CCS High-Angle LED Ring Lights

Stock **#21-839** **1 In Stock**

A\$1,688⁰⁰

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Volume Pricing	
Qty 1+	A\$1,688.00 each
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Note: This item requires accessories for use | [Learn More](#)

Product Downloads

General

LDR2-50IR2-850	Model Number:
LED Illuminator	Type of Illumination:
CCS	Manufacturer:
High-Angle Ring Light	Geometry:

Constant **Illumination Mode:**

Physical & Mechanical Properties

OD: 50, ID: 28, Height: 16 **Dimensions (mm):**

50 **Weight (g):**

Optical Properties

IR **Color:**

850 **Wavelength (nm):**

Electrical

3.8 **Power Consumption (W):**

Hardware & Interface Connectivity

24 **Input Voltage (V):**

Power Supply:
Power Supply Required and Sold Separately.
USA: [#73-491](#)
Europe: [#73-491](#)
Japan: [#89-513](#)
Korea: [#33-773](#)
China: [#73-491](#)

Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[Contains SVHC\(s\)](#) **Reach 224:**

[View](#) **Certificate of Conformance:**

Product Details

- High-Angle, Direct Lighting for Uniform Intensity
- Designed for Constant Output Power for Prolonged Use
- Ideal for Brightfield Illumination

CCS High-Angle LED Ring Lights provide illumination at a high angle of incidence for brightfield imaging applications. High density LED mounting and a flexible circuit board ensures uniform illumination intensity across all sizes of ring lights. These high-angle LED ring lights are designed to maintain constant output power over prolonged periods. CCS High-Angle LED Ring Lights alleviate the influence of slight differences in position or inclination of a sample for stable imaging and are ideal for industrial and manufacturing applications.

[3D-Printable Mount Files](#)



Ring Light Configuration

DOWNLOAD NOW

Designed for use with the [Articulating Arm Mounting Systems](#), these 3D-printed mounts allow easy positioning of lights in brightfield or darkfield setups. The design is based on mounting illumination to 1/4-20" breadboards or into 80/20 extrusion systems, but can be adapted based on user needs. Mounts are available for ring, bar, line, and inline spot lights.



Application Note

Illumination Mounts for Machine Vision Applications
[Read](#)

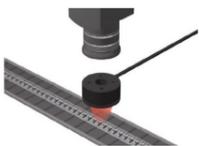


Video

Assembly of 3D Printed Mounts for Common Illumination Geometries
[Watch](#)

Technical Information

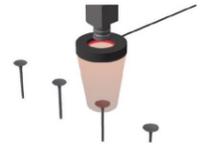
Imaging Example: Imaging Electrodes of Electronic Parts



Description	Visual inspection
Workpiece	Electronic parts
Conventional lighting	LED Bar Light
New lighting	LDR2-32RD2
Result	Improved uniformity



➤ Imaging Example: Imaging Text on Intake Valves



Description	Character recognition
Workpiece	Intake valves (automobile parts)
Conventional lighting	LED Ring Light
New lighting	LDR2-50RD2
Result	Emphasized characters

Workpiece image
Intake valves

LED Ring Light
It's difficult to clearly recognize the text due to the inner indentation.

LDR2-50RD2
Allows for image that makes the character edges stand out.