

## 50mm Dia IR Ring Light 850nm

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CCS High-Angle LED Ring Lights

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

A\$1,688<sup>00</sup>

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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

**Model Number:**  
LDR2-50IR2-850

**Type of Illumination:**  
LED Illuminator

**Manufacturer:**  
CCS

**Geometry:**  
High-Angle Ring Light

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 ¼-20" 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](#)



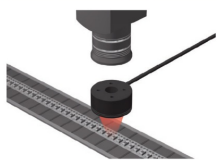
Video

Assembly of 3D Printed Mounts for Common Illumination Geometries

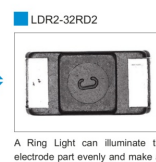
[Watch](#)

## Technical Information

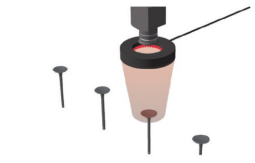
### Imaging Example: Imaging Electrodes of Electronic Parts



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.