50mm Dia IR Ring Light 850nm

See More by **CCS**

CCS High-Angle LED Ring Lights

Stock **#21-839** [CONTACT US]

− 1 +   £844.⁰⁰

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Volume Pricing	
Qty 1+	**£844.00** each
Need More?	**Request Quote**

● Prices shown are exclusive of VAT/local taxes

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 | |

| | **Illumination Mode:** |
| Constant | |

Physical & Mechanical Properties

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

| | **Weight (g):** |
| 50 | |

Optical Properties

| | **Color:** |
| IR | |

| | **Wavelength (nm):** |
| 850 | |

Electrical

| | **Power Consumption (W):** |
| 3.8 | |

Hardware & Interface Connectivity

| | **Input Voltage (V):** |
| 24 | |

| | **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

| | **RoHS 2015:** |
| **Exempt** | |

| | **Reach 224:** |
| **Contains SVHC(s)** | |

| | **Certificate of Conformance:** |
| **View** | |

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

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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

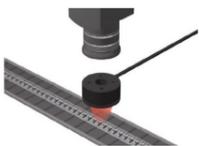Illumination Mounts for Machine Vision Applications
Read

Video
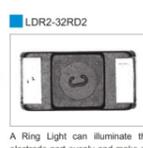
Assembly of 3D Printed Mounts for Common Illumination Geometries
Watch

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

■ Workpiece image
■ LED Bar Light
■ LDR2-32RD2

Electronic parts

It's difficult to make an image of the electrode part using a Bar Light.

A Ring Light can illuminate the electrode part evenly and make an image.

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.