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50mm Dia IR Ring Light 940nm

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CCS High-Angle LED Ring Lights

Stock **#21-840** **2 In Stock**

-

1

+

C\$1,477⁰⁰

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Volume Pricing	
Qty 1+	C\$1,477.00 each
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Note: This item requires accessories for use | [Learn More](#)

Product Downloads

General	
LDR2-50IR2-940	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:
940	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

Workpiece image

Electronic parts

LED Bar Light

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

LDR2-32RD2

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.