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# 132mm Low Angle IR Ring Light 940nm

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CCS Low-Angle LED Ring Lights

Stock #21-842 **1 In Stock**

- 1 + €3.200<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €3.200,00 each                |
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ⓘ Prices shown are exclusive of VAT/local taxes

**Note:** This item requires accessories for use | [Learn More](#)

## Product Downloads

### General

LDR2-132IR2-940-LA **Model Number:**

LED Illuminator **Type of Illumination:**

CCS **Manufacturer:**

|   |                                    |
|---|------------------------------------|
| Low-Angle Ring Light  | <b>Geometry:</b>                   |
| Constant  | <b>Illumination Mode:</b>          |
| <b>Physical &amp; Mechanical Properties</b>   |                                    |
| OD: 132 , ID: 96 , Height 22  | <b>Dimensions (mm):</b>            |
| 270   | <b>Weight (g):</b>                 |
| <b>Optical Properties</b>   |                                    |
| IR  | <b>Color:</b>                      |
| 940   | <b>Wavelength (nm):</b>            |
| <b>Electrical</b>   |                                    |
| 16  | <b>Power Consumption (W):</b>      |
| <b>Hardware &amp; Interface Connectivity</b>  |                                    |
| 24  | <b>Input Voltage (V):</b>          |
| <b>Power Supply:</b><br>Power Supply Required and Sold Separately.<br>USA: <a href="#">#73-491</a><br>Europe: <a href="#">#73-491</a><br>Japan: <a href="#">#89-513</a><br>Korea: <a href="#">#33-773</a><br>China: <a href="#">#73-491</a> |                                    |
| <b>Regulatory Compliance</b>  |                                    |
| <a href="#">Exempt</a>  | <b>RoHS 2015:</b>                  |
| <a href="#">Contains SVHC(s)</a>  | <b>Reach 224:</b>                  |
| <a href="#">View</a>  | <b>Certificate of Conformance:</b> |

## Product Details

- Low 30° LED Mounting Angle
- Designed for Constant Output Power for Prolonged Use
- Ideal for Darkfield Illumination

CCS Low-Angle LED Ring Lights feature a low 30° LED mounting angle for darkfield illumination applications. By mounting a flexible circuit board at a steep slope, these ring lights are able to effectively concentrate light at small working distances. These low-angle LED ring lights are designed to maintain constant output power over prolonged periods. CCS Low-Angle LED Ring Lights enable images that clearly emphasize characteristic features of an object and are ideal for inspection of engraving, damage, or stains on metal surfaces, edge detection, inspection for contaminants, and other manufacturing and industrial 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

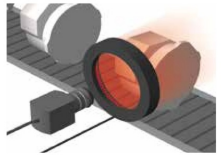
### Imaging example : Text on tablets, exterior imaging



|                       |  |
|-----------------------|--|
| Description           | Text, visual inspection                  |
| Workpiece             | Tablet                                   |
| Conventional lighting | Interior lamp                            |
| New lighting          | LDR2-170RD2-LA                           |
| Result                | Emphasizes text and edge of the exterior |



➤ Imaging example : Imaging of engraved text on a metal block (stain finishing)



|                       |                                 |
|-----------------------|---------------------------------|
| Description           | Character recognition           |
| Workpiece             | Metal block                     |
| Conventional lighting | LED Dome Light                  |
| New lighting          | LDR2-132RD2-LA                  |
| Result                | Extracts only the engraved text |

Workpiece image



Metal block (stain finishing)

LED Dome Light



The whole thing is illuminated, making it difficult to emphasize only the characters.



LDR2-132RD2-LA



Reduces effects from the stain finishing, making it possible to emphasize the characters.