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## 2.15" White, Strobed, LED Darkfield Illuminator

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Stock **#83-252** [CONTACT US](#)

-

1

+

€500<sup>00</sup>

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

Product Downloads

| General      |                       |
|--------------|-----------------------|
| RL2115-WHII3 | Model Number:         |
| 50,000       | LED Lifetime (hours): |
| 15.00        | Number of LEDs:       |
|              | Number of Channels:   |

|                                                                                                                                                                                                                                      |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1.00                                                                                                                                                                                                                                 |                                 |
| LED Illuminator                                                                                                                                                                                                                      | Type of Illumination:           |
| Optional Manual Intensity Adjustment <a href="#">#86-887</a> and <a href="#">#89-555</a> are Available                                                                                                                               | Note:                           |
|                                                                                                                                                                                                                                      |                                 |
| Advanced Illumination                                                                                                                                                                                                                | Manufacturer:                   |
| Ring Light                                                                                                                                                                                                                           | Geometry:                       |
| Strobed                                                                                                                                                                                                                              | Illumination Mode:              |
| Physical & Mechanical Properties                                                                                                                                                                                                     |                                 |
| 55.0                                                                                                                                                                                                                                 | Height (mm):                    |
| 19.0                                                                                                                                                                                                                                 | Inner Diameter (mm):            |
| 55.0                                                                                                                                                                                                                                 | Outer Diameter (mm):            |
| 6.4 - 12.7                                                                                                                                                                                                                           | Field Coverage (mm):            |
| Optical Properties                                                                                                                                                                                                                   |                                 |
| White                                                                                                                                                                                                                                | Color:                          |
| 19 - 25.4                                                                                                                                                                                                                            | Working Distance (mm):          |
| Electrical                                                                                                                                                                                                                           |                                 |
| 30.00                                                                                                                                                                                                                                | Maximum Trigger Frequency (Hz): |
| 30 - 300                                                                                                                                                                                                                             | Strobe Duration (µs):           |
| Hardware & Interface Connectivity                                                                                                                                                                                                    |                                 |
| Flying Leads                                                                                                                                                                                                                         | Connector:                      |
| Power Supply:<br>Power Supply Required and Sold Separately:<br>USA: <a href="#">#66-855</a><br>Europe: <a href="#">#66-855</a><br>Japan: <a href="#">#89-513</a><br>Korea: <a href="#">#33-773</a><br>China: <a href="#">#66-855</a> |                                 |
| Threading & Mounting                                                                                                                                                                                                                 |                                 |
| Standard                                                                                                                                                                                                                             | Mount:                          |
| M3 x2                                                                                                                                                                                                                                | Mounting Threads:               |
| Environmental & Durability Factors                                                                                                                                                                                                   |                                 |
| 0 to +65                                                                                                                                                                                                                             | Operating Temperature (°C):     |
| Regulatory Compliance                                                                                                                                                                                                                |                                 |
| <a href="#">Compliant</a>                                                                                                                                                                                                            | RoHS 2015:                      |
| <a href="#">View</a>                                                                                                                                                                                                                 | Certificate of Conformance:     |
| <a href="#">Contains SVHC(s)</a>                                                                                                                                                                                                     | Reach 233:                      |

## Product Details

- Ideal for Visually Enhancing Surface Defects
  - Useful for Front or Back Illumination
  - 5" Versions Have Variable Intensity
- Advanced Illumination Darkfield LED Illuminators are ideal for visually enhancing surface defects. LED intensity can be varied through the in line potentiometer. The 5" darkfield illuminator includes a mounting bracket for easy system integration.
- Note:** Required 24V power supply [#66-855](#). [Accessories for Advanced Illumination products](#) are available and sold separately.
- The strobed models' flash duration is dependent on a trigger signal or potentiometer setting. The duration of the strobe can be adjusted from 30 - 300µs via a knob located in the back of the unit. Trigger input signal is CMOS/TTL compatible. The maximum trigger frequency is 30Hz.



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  
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Video

Assembly of 3D Printed Mounts for Common Illumination Geometries  
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