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880nm, Strobed, Brightfield/Darkfield LED Ring Light w/ Barrel Mount

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Stock #83-251 [CONTACT US](#)

⊖ 1 ⊕ A\$2,360⁰⁰

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

Product Downloads

General

RL5064B-880-IS	Model Number:
50,000	LED Lifetime (hours):
64.00	Number of LEDs:
LED Illuminator	Type of Illumination:

Note:
This product requires a 24V power supply, [#66-855](#).
The European version of the required power supply is [#35-200](#).

Manufacturer:
Advanced Illumination

Geometry:
Ring Light

Illumination Mode:
Strobed

Physical & Mechanical Properties

Diameter (mm):
100.00

Height (mm):
33.7

Inner Diameter (mm):
55.5

Outer Diameter (mm):
100.00

Optical Properties

Color:
IR

Wavelength (nm):
880

Working Distance (mm):
6 - 64

Electrical

Maximum Trigger Frequency (Hz):
30.00

Strobe Duration (µs):
30 - 300

Hardware & Interface Connectivity

Connector:
Flying Leads

Power Supply:
Power Supply Required and Sold Separately:
USA: [#66-855](#)
Europe: [#66-855](#)
Japan: [#89-513](#)
Korea: [#33-773](#)
China: [#66-855](#)

Threading & Mounting

Mount:
Barrel Mount

Mounting Threads:
M4 x4

Environmental & Durability Factors

Operating Temperature (°C):
0-65

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Product Details

For more information on Darkfield Illumination, click [here](#).

- Hybrid Diffuse Brightfield and Darkfield Illumination
- Can Be Used Independently or Simultaneously
- Fixed Intensity or Strobed Options

Advanced Illumination Brightfield/Darkfield LED Ring Lights offer a level of versatility not previously available. Two independently powered rings of LEDs provide darkfield and brightfield illumination. 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. The trigger input signal of the Advanced Illumination Brightfield/Darkfield LED Ring Light is CMOS/TTL compatible. The maximum trigger frequency is 30 Hz.

Note: Required 24V power supply [#66-855](#). [Accessories for Advanced Illumination products](#) are available and sold separately.



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 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

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Video

Assembly of 3D Printed Mounts for Common Illumination Geometries

[Watch](#)