

[See all 13 Products in Family](#)

## 50mm, Red 625nm, MicroBrite Diffuse Darkfield Ring Lights

See More by [Advanced Illumination](#)



Advanced Illumination MicroBrite Diffuse Darkfield Ring Lights

Stock **#18-558** [CONTACT US](#)

⊖ 1 ⊕ MRP ₹72,747

**1** Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1+	₹72,747 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

DF198-050625IC **Model Number:**

50,000 **LED Lifetime (hours):**

LED Illuminator **Type of Illumination:**

**Note:**  
Optional Manual Intensity Adjustment [#86-887](#) and [#89-555](#) are Available

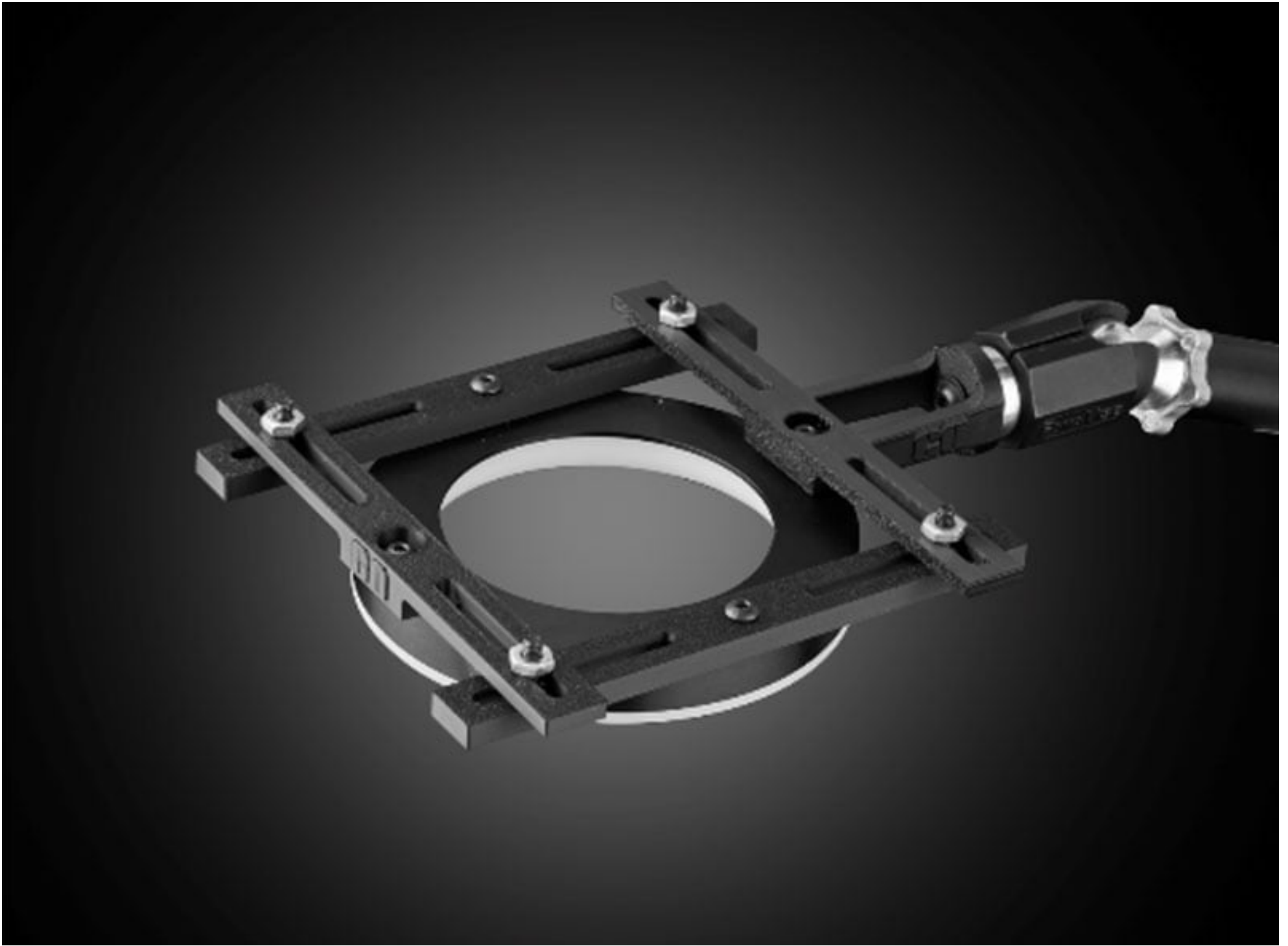
Advanced Illumination	<b>Manufacturer:</b>
Ring Light	<b>Geometry:</b>
Constant	<b>Illumination Mode:</b>
<b>Physical &amp; Mechanical Properties</b>	
14.1	<b>Height (mm):</b>
18.3	<b>Inner Diameter (mm):</b>
50	<b>Outer Diameter (mm):</b>
50.0 x 18.3 x 14.1	<b>Dimensions (mm):</b>
61.7	<b>Weight (g):</b>
<b>Optical Properties</b>	
Red	<b>Color:</b>
625	<b>Wavelength (nm):</b>
<b>Electrical</b>	
0.13A	<b>Maximum Input Current:</b>
<b>Hardware &amp; Interface Connectivity</b>	
Flying Leads	<b>Connector:</b>
24V	<b>Input Voltage (V):</b>
<b>Power Supply:</b> Power Supply Required and Sold Separately. USA: <a href="#">#66-855</a> Europe: <a href="#">#66-855</a> Japan: <a href="#">#89-513</a> Korea: <a href="#">#33-773</a> China: <a href="#">#66-855</a>	
<b>Threading &amp; Mounting</b>	
M4 x4	<b>Mounting Threads:</b>
<b>Environmental &amp; Durability Factors</b>	
0 - 60	<b>Operating Temperature (°C):</b>
IP40	<b>Environmental Rating:</b>
<b>Regulatory Compliance</b>	
<a href="#">Exempt</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Contains SVHC(s)</a>	<b>Reach 233:</b>
United States	<b>Country of Origin:</b>
<b>Imported By:</b> Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	

## Product Details

- Ideal for Visually Enhancing Surface Defects
- High Light Output up to 47,000 Lux
- Multiple Working Distances Between Darkfield and Brightfield
- Required Power Supply and Optional Manual Intensity Adjustment Sold Separately

Advanced Illumination MicroBrite Diffuse Darkfield Ring Lights provide high performance diffuse illumination at narrow angles in a compact form factor. At short working distances, the curved, diffuse lens allows for darkfield illumination while longer working distances allow for both darkfield and brightfield illumination. These ring lights can be used with optional potentiometers to manually adjust LED intensity and can be used to produce a brightfield effect when the working distance is greater than the ring light's outer diameter. Advanced Illumination MicroBrite Diffuse Darkfield Ring Lights are available in multiple sizes and are ideal for applications requiring visual enhancements of surface defects.

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](#)