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**TECHSPEC® 50mm Dia. Protected Gold Coated, Reflective Diffuser**



Reflective Diffusers

Stock **#12-461** **5 In Stock**

⊖ 1 ⊕ A\$159<sup>00</sup>

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Volume Pricing	
Qty 1-10	A\$159.20 each
Qty 11-24	A\$127.20 each
Qty 25+	A\$120.00 each
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Product Downloads

**General**

Reflective Diffuser **Type:**

**Physical & Mechanical Properties**

50.00 ±0.25 **Diameter (mm):**

120 **Grit:**

1.60 (nominal)

Thickness (mm):

## Optical Properties

Protected Gold (700-10000nm) **Coating:**

**Coating Specification:**  
R<sub>avg</sub> >96% @ 700 - 2000nm  
R<sub>avg</sub> >96% @ 2000 - 10,000nm

Float Glass **Substrate:**

700 - 10000 **Wavelength Range (nm):**

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**Reach 247:**  
[Compliant](#)

## Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

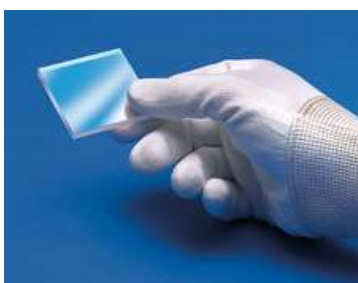
## Product Details

- Ideal for UV and IR Diffusing Applications
- Protected Aluminum or Protected Gold Coatings
- 120 Grit Sandblasted Surface

Reflective Diffusers are designed for ultraviolet (UV) and infrared (IR) diffusing applications, providing higher efficiency in the respective spectra than transmissive diffusers. These diffusers feature a sandblasted metallic coated surface that serves as a diffuse reflecting surface. Incident light reflected off this surface is transformed to have a diffuse intensity pattern. TECHSPEC Reflective Diffusers are coated with either Enhanced Aluminum or Protected Gold for high reflectivity in the UV or IR spectra, respectively. Standard sizes with diameters as small as 5mm are available.

## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

## Compatible Mounts