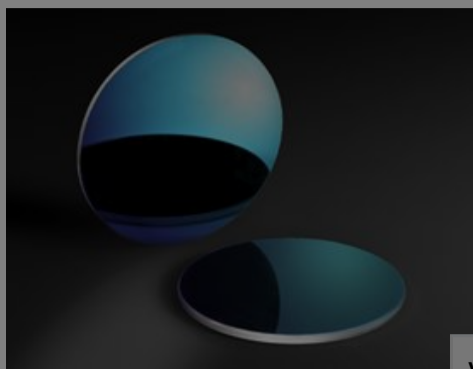


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# 0.5 OD, 50mm D



Infrared (IR) Neutral Density (ND) Filters

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit

1

€1.250<sup>,00</sup>

ADD TO CART

### Volume Pricing

Qty	€1.250,00
1+	each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

### Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

## General

**Type:** Neutral Density Filter

## Physical & Mechanical Properties

**Diameter (mm):** 50.00 ±0.2

**Thickness (mm):** 1.00 ±0.2

**Parallelism (arcmin):** <10

**Clear Aperture (%):** 90

## Optical Properties

**Optical Density OD (Average):** 0.5

**Substrate:** Germanium (Ge)

**Coating:** Metallic Based ND

**Surface Quality:** 80-50

**Transmission (%):** 31.6

**Transmission Tolerance (%):** ±2.0

**Blocking Wavelength Range (nm):** 2000 - 14,000

**Wavelength Range (µm):** 2 - 14

**Surface Flatness (P-V):** 3 - 5λ

## Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

REACH 241: **Compliant**

## Product Details

- Spectrally Flat from 2µm to 14µm
- Precision Germanium Substrate
- **Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our customer service team.**

Infrared (IR) Neutral Density (ND) Filters feature excellent linearity over a wide spectral band of 2µm to 14µm. Ideal for thermal and medical imaging, the filters are available in a variety of densities and 2 size options. Attenuation is achieved by depositing a thin layer of germanium on a substrate to achieve the stated transmittance value.

Infrared (IR) Neutral Density (ND) Filters feature a wide range of optical densities and diameters. All 5 optical densities are available as part of our Neutral Density Filter Kits. Please contact our [Applications Engineering](#) team for more information on our products, dimensions and optical densities. All 5 optical densities are available as part of our Neutral Density Filter Kits.

Please contact our [Applications Engineering](#) team for more information on our products, dimensions and optical densities. All 5 optical densities are available as part of our Neutral Density Filter Kits.

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## Technical Information

### Special Handling

#### Germanium Optics Handling and Cleaning Guidelines

Germanium optics require special handling and cleaning procedures. Always wear gloves during handling to prevent contamination, and wash hands afterward. Avoid contact between Germanium dust and the eyes, skin, or clothing. When not in use, store optics sealed and covered at temperatures between 20°C and 25°C. Do not expose them to temperatures exceeding 100°C when in use.

##### Handling Guidelines

- Always wear **gloves** to prevent damage from skin oils.
- If Germanium dust is present, take the following precautions:
  - Wear safety glasses to protect eyes.
  - Use a dust mask or face mask to avoid inhalation.
  - Wear **gloves** to prevent skin contact.
- Maintain storage temperature between 20°C and 25°C with humidity below 30%.
- Wrap Germanium optics in a **lens cloth** or **pouch** and seal in a **container** when not in use.
- Germanium is brittle and heavy — always place it on soft surfaces and avoid dropping it.

##### Approved Cleaning Solvents

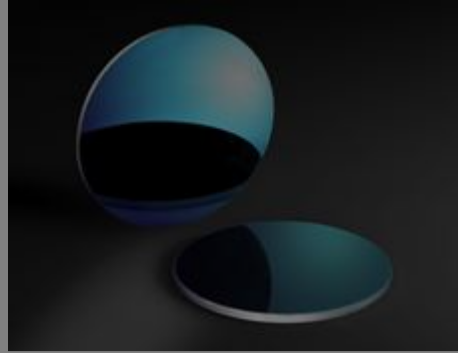
- Ethanol
- Isopropyl Alcohol
- Methanol
- Reagent-Grade Acetone
- Liquid CO<sub>2</sub>
- [Shop Now](#)

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

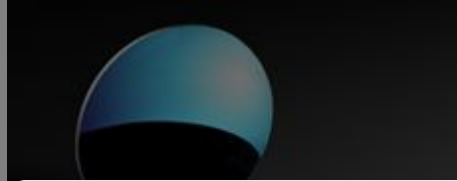
	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	0.3 - 3.0 OD, 12.5mm Dia., IR Neutral Density Filter Kit (9 Filters)		<b>#15-114</b>	<b>€3.400,00</b> <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1
<a href="#">MORE+</a>	IR Neutral Density Filter Kit, 50mm Diameter		<b>#64-364</b>	<b>€4.579,00</b> <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1
<a href="#">MORE+</a>	IR Neutral Density Filter Kit, 50mm Diameter		<b>#87-206</b>	<b>€8.669,00</b> <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1

## Frequently Purchased Together



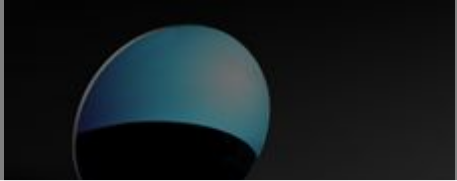
#64-360 - 1.0 OD, 50mm Dia., IR Neutral Density Filter  
€1.250,00

Qty



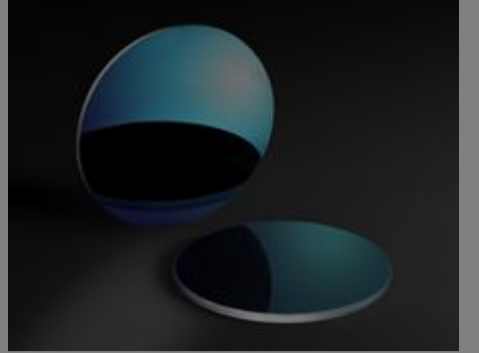
#64-360 - 1.0 OD, 50mm Dia., IR Neutral Density Filter  
€1.250,00

Qty



#64-356 - 2.0 OD, 25mm Dia., IR Neutral Density Filter  
€645,00

Qty



#64-356 - 2.0 OD, 25mm Dia., IR Neutral Density Filter  
€645,00

Qty

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## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	€49,25 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	€49,25 <a href="#">Request Quote</a>	8 In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., Optical Cell Assembly	Fixed		#36-465 <b>CLEARANCE</b>	€119,95 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 <a href="#">Request Quote</a>	3 In Stock <input type="text" value="1"/>
	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#55-000	€510,00 <a href="#">Request Quote</a>	7 In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	€605,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	€840,00 <a href="#">Request Quote</a>	10 In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

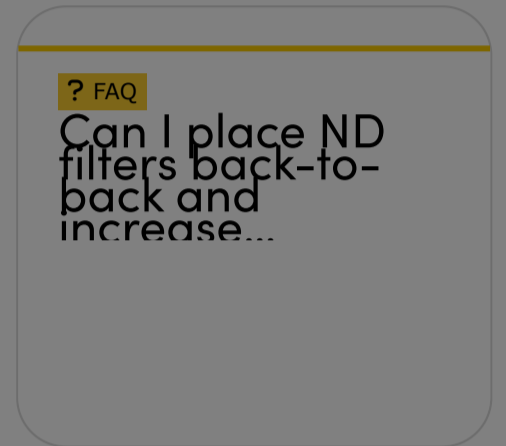
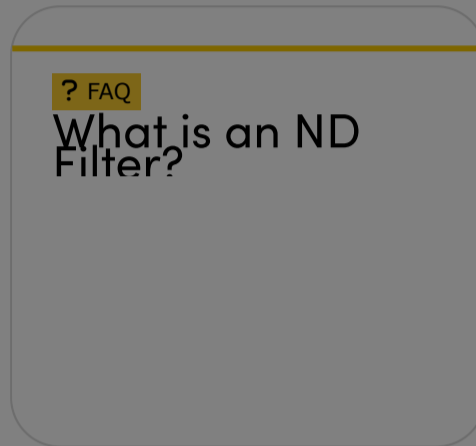
# Resources

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## Media Type

- Scientific Paper
- Video
- Glossary
- Application Note
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