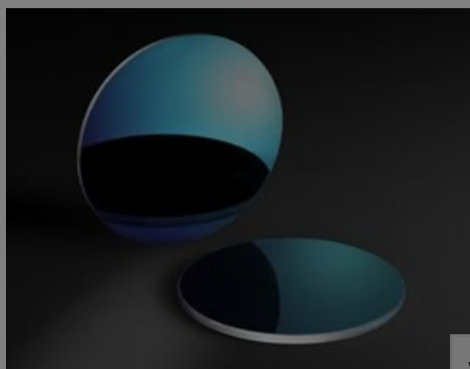


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# IR Neutral Density



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

€4.579<sup>,00</sup>

ADD TO CART

### Volume Pricing

Qty 1+ €4.579,00 each

Need More? [Request Quote](#)

Prices shown are exclusive of VAT/local taxes

### Product Downloads



Curve:pdf



PDF Drawing:pdf



[Download All](#)

## General

**Filters Included :** OD: **0.3, 0.5, 1.0, 2.0, 3.0**

**Type:** Neutral Density Filter

**Number of Filters:** 5.00

## Physical & Mechanical Properties

**Diameter (mm):** 50.00

## Optical Properties

**Substrate:** Germanium (Ge)

**Coating:** Metallic Based ND

**Surface Quality:** 80-50

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

**Wavelength Range (µm):** 2 - 14

**Surface Flatness (P-V):** 3 - 5λ

## Regulatory Compliance

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

## 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 a metal alloy coating, which employs a combination of absorption and reflection to achieve the stated transmittance value. Infrared (IR) Neutral Density (ND) Filters feature a germanium substrate and are available in 12.5, 25, and 50mm diameters with varying transmissions and optical densities. All 5 optical densities are available as part of our Neutral Density Filter Kits. The kits are ideal for integration with our filter wheels.

Please contact our [Applications Engineering Department](#) to discuss custom size and density options.

## Technical Information

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## 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)		<a href="#">#15-114</a>	<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		<a href="#">#64-364</a>	<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		<a href="#">#87-206</a>	<b>€8.669,00</b> <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> 1

## Frequently Purchased Together



#55-007 - 50mm, Multiple Filter Holder  
**€121,00**

Qty



#55-009 - 50mm, Mounting Cell  
**€27,25**

Qty



#58-970 - 25.4mm Length, M6 Thread, Post Holder  
**€13,50**

Qty



#59-757 - 25.4mm Length, M6 Stud, Steel Post  
**€8,95**

Qty



# Resources

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## Media Type

- Scientific Paper
- Video
- Glossary
- Application Note
- FAQ

Using engineered chalcogenide...

GLOSSARY  
Short Wave Infrared (SWIR)

APPLICATION NOTE  
Understanding Neutral Density Filters

? FAQ  
What is an ND Filter?

? FAQ  
Can I place ND filters back-to-back and increase...

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