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/ [UV-VIS Neutral Density \(ND\) Filter](#)

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TECHSPEC® 1.0 OD



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

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1

€229⁰⁰

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Volume Pricing

Qty 1-5	€229,00 each
Qty 6-25	€183,00 each
Qty 26-49	€171,75 each
Need More?	Request Quote

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 +0.00/-0.20

Thickness (mm): 5.00 ±0.10

Clear Aperture (%): 80.00

Parallelism (arcsec): <5

Optical Properties

Optical Density OD (Average): 1.0

Substrate: [Fused Silica](#) (Corning 7980)

Coating: Metallic Based ND

Surface Quality: 40-20

Transmission (%): 10.00

Blocking Wavelength Range (nm): 250 - 700

Transmitted Wavefront, P-V: λ/4

Optical Density Tolerance (%): ±10

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

REACH 241: [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
- High-precision surface quality and finishes
- Tight tolerances and complex geometries
- Scalable production—from prototyping to full-scale production

Learn more about our [custom manufacturing](#) services.

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Product Details

- Ideal for 250-700nm Sources
- Optical Densities Ranging from 0.3 to 3.0

TECHSPEC® UV-VIS Neutral Density (ND) Filters are spectrally flat from 250 to 700nm and feature outstanding parallelism and surface characteristics. This combination of high tolerance and broadband performance makes these filters ideal for attenuating a wide range of sources. The filters are suitable for low power laser applications and can be stacked to obtain a variety of optical densities. TECHSPEC UV-VIS Neutral Density (ND) should have their mirrored side oriented toward the source at a 0° angle of incidence. Optical Densities of 0.5, 1.0, 1.5, 2.0, 2.5 and 3.0 available in a [Pre-Loaded Filter Wheel](#).

Note: Due to supply chain issues, our kits may be delivered with an alternative packaging solution in place of a wooden box. For any questions, please contact kits@edmundoptics.com.

TECHSPEC® UV-VIS Reflective Neutral Density Filter Kit

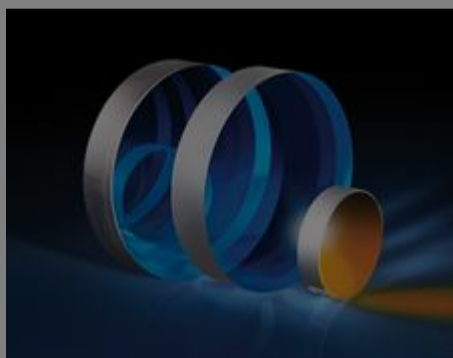
Each kit includes 8 filters in optical density values of 0.3, 0.5, 1.0, 1.3, 1.5, 2.0, 2.5, and 3.0. The kit is ideal for determining precise system optical density requirements. Custom densities are available for OEM applications.

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
MORE+	UV-VIS ND Filter Kit, 12.5mm Diameter Filters		#48-626	€655,00 Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	UV-VIS ND Filter Kit, 25mm Diameter Filters		#47-511	€840,00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	UV-VIS ND Filter Kit, 50mm Diameter Filters		#64-347	€1.475,00 Request Quote	1 In Stock <input type="text" value="1"/>

Frequently Purchased Together



#43-416-577 - 2" Dia. Protected Silver, λ/20 Flat Fused Silica
€425,00



#03-670 - 19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount
€114,00











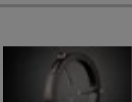





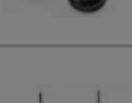



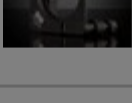













#31-417 - 17 x 23mm, 4-6λ Mirror
€21,25











#34-602 - 50mm Dia., 6mm Thick, Uncoated λ/10 Fused Silica Window
€280,00

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 50.0mm Optic Dia., Optic Mount				€49,25	2 In Stock <input type="text" value="1"/> 
MORE+	 50.0mm Optic Dia., Optic Mount					7 In Stock <input type="text" value="1"/> 
MORE+	 9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-867	€96,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	€114,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Optical Cell Assembly	Fixed		#36-465 CLEARANCE	€119,95 Request Quote	2 In Stock <input type="text" value="1"/> 
MORE+	 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-852	€135,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-855	€157,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-816	€246,00 Request Quote	12 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-819	€268,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 Request Quote	1 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-005	€361,00 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#56-326	€387,00 Request Quote	CONTACT US <input type="text" value="1"/> 

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	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	5.0 - 100.0mm Optic Dia., 50.0mm Centering J Clamp				€410,00	CONTACT US 1 
MORE+ 	50.0/50.8mm Optic Dia., Precision G Mount					7 In Stock 1 
MORE+ 	50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	€605,00 Request Quote	20+ In Stock 1 
MORE+ 	50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	€840,00 Request Quote	10 In Stock 1 

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

Resources

Media Type

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

📄 SCIENTIFIC PAPER

Ultraviolet fatigue testing of laser optics

📄 APPLICATION NOTE

UV Optics: Tighter Tolerances and Different...

📄 APPLICATION NOTE

Why Laser Damage Testing is Critical for UV...

? FAQ

Can BK7 be used for UV applications?

📖 GLOSSARY

Ultraviolet (UV) Spectrum

📄 APPLICATION NOTE

Understanding Neutral Density Filters

[View More](#)