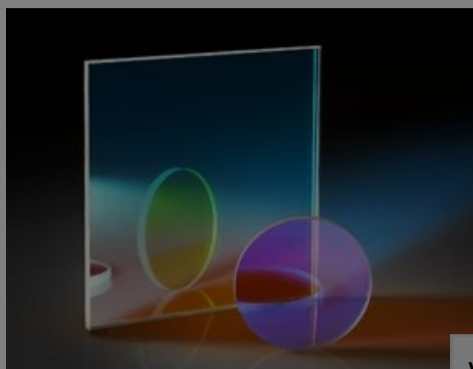


[All Products](#) / [Optics](#) / [Optical Filters](#) / [Additive and Subtractive Dichroic](#)

[See all 38 Products in Family](#)

50mm Square, Cyan



Additive and Subtractive Dichroic Color 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

€44^{,75}

ADD TO CART

Volume Pricing	
Qty 1-24	€44,75 each
Qty 25-49	€40,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Type: Dichroic Filter

Physical & Mechanical Properties

Dimensions (mm): 50.0 x 50.0

Length (mm): 50.00

Thickness (mm): 2.00 Nominal

Width (mm): 50.00

Dimensional Tolerance (mm): ±0.25

Clear Aperture (%): ≥85

Optical Properties

Angle of Incidence (°): 0

Cut-Off Wavelength (nm): 590.00

Substrate: [BOROFLOAT®](#)

Coating: Subtractive Color

Color: Cyan

Surface Quality: 80-50

Coating Specification: $T_{avg} > 80\%$ @ 400 - 550nm
 $T_{avg} < 1.0\%$ @ 640 - 740nm

Cut-Off Wavelength Tolerance (µm): 0.015

Environmental & Durability Factors

Operating Temperature (°C): <100

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Need different specifications?

Edmund Optics offers comprehensive custom manufacturing capabilities to meet your specific requirements. Whether in the prototyping phase or ready for production, 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](#).

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:

Application
s. Our experienced

Product Details

- High Saturation Dichroic Type
- Matrix of Sizes and Sets
- Precision Glass Substrate

Additive and Subtractive Dichroic Color Filters are dichroic filters ideal for machine vision and commonly used for color separation and contrast enhancement applications. Provided in unmounted versions, these filters are easily integrated into a variety of existing camera and illumination setups. In addition, dichroic filters provide wider fields of view not obtainable using narrow bandpass interference filters. Additive and Subtractive Dichroic Color Filters feature a precision glass substrate and are offered in a variety of sizes and sets. A complete set of these dichroic filters is available in a [Pre-Loaded filter wheel](#).

Typical applications include photo enlargers, beam separation, and placing filters in front of an imaging lens to selectively isolate spectral regions/colors.

Technical Information

Accessories

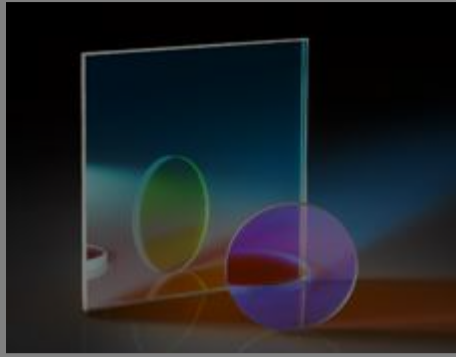
Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	Red, Green & Blue, 12.5mm Diameter, Dichroic Filter Set		#52-545	€68,00 Volume Pricing Request Quote	8 In Stock <input type="text" value="1"/>
MORE+	Cyan, Magenta & Yellow, 12.5mm Diameter, Dichroic Filter Set		#52-548	€68,00 Volume Pricing Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Red, Green & Blue, 25mm Diameter, Dichroic Filter Set		#52-546	€81,50 Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	Cyan, Magenta & Yellow, 25mm Diameter, Dichroic Filter Set		#52-549	€81,50 Volume Pricing Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	Cyan, Magenta & Yellow, 50mm Diameter, Dichroic Filter Set		#52-550	€115,00 Volume Pricing Request Quote	9 In Stock <input type="text" value="1"/>
MORE+	Red, Green & Blue, 50mm Diameter, Dichroic Filter Set		#52-547	€115,00 Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	Red, Green & Blue, 50mm Square, Dichroic Filter Set		#46-140	€115,00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Cyan, Magenta & Yellow, 50mm Square, Dichroic Filter Set		#46-141	€115,00 Volume Pricing Request Quote	2 In Stock <input type="text" value="1"/>

Frequently Purchased Together

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:



#30-635 - 50mm Square, Blue Dichroic Filter
€44,50



#30-634 - 50mm Square, Red Dichroic Filter
€44,50






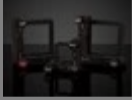



#01-307 - 25,400 Lines/Inch, 2" Square Card, 15/Pack, Holographic Diffraction Grating Film
€28,50



#23-083 - 15mm Dia. x 22.5mm FL, Commercial Grade, Plano-Convex Lens
€19,95

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	Spring Mount Filter Holder, Metric	Fixed		#55-531	€87,50 Request Quote	6 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
MORE+ 	40mm Sq., Fixed Filter Holder	Fixed		#54-997	€93,50 Request Quote	16 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
MORE+ 	Filter Kinematic Mount, 2-Screw	Adjustable - Tip-Tilt		#58-874	€122,00 Request Quote	20+ In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
MORE+ 	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	€126,00 Request Quote	20+ In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
MORE+ 	Filter Kinematic Mount, 3-Screw	Adjustable - Tip-Tilt		#58-875	€138,00 Request Quote	15 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
MORE+ 	50/50.8mm Sq. Kinematic Mount, 2 Screws	Adjustable - Tip-Tilt		#58-858	€143,00 Request Quote	20+ In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
MORE+ 	50/50.8mm Sq. Kinematic Mount, 3 Screws	Adjustable - Tip-Tilt		#58-861	€157,00 Request Quote	20+ In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>

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

Resources

Media Type

- Application Note
- Video

APPLICATION NOTE

The Importance of Optical Filter Orientation....

APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...

VIDEO

Optical Filters Review

- Published Article
- FAQ
- Glossary
- Trending in Optics

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:

Traditional a...

Applications

? FAQ

What type of material should I look for in a filter?

View More