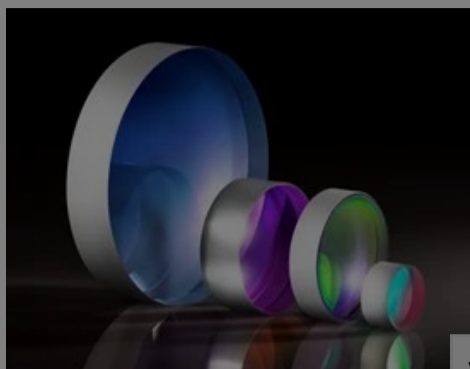


[All Products](#) / [Optics](#) / [Optical Mirrors](#) / [Yb:YAG Laser Line Mirrors](#)

[See all 76 Products in Family](#)

**TECHSPEC® 12.7mm**



TECHSPEC® Yb:YAG Laser Line Mirrors

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

€160<sup>00</sup>

ADD TO CART

Volume Pricing	
Qty 1-5	€160,00 each
Qty 6-25	€145,00 each
Qty 26-49	€128,00 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:easm
- EO Spec Sheet
- [Download All](#)

General

Type: Laser Mirror

Physical & Mechanical Properties

Parallelism (arcmin): <3

Clear Aperture (%): 90

Back Surface: Commercial Polish

Diameter (mm): 12.70 +0.00/-0.10

Thickness (mm): 6.35 ±0.2

Optical Properties

Surface Quality: 10-5

Reflection at DWL (%): 99.8

Coating Specification: R<sub>abs</sub> ≥99.8% @ 515nm

Wavelength Range (nm): 509 - 520

Surface Flatness (P-V): λ/10

Coating Type: Dielectric

Coating: Laser Mirror (515nm)

Design Wavelength DWL (nm): 515

Angle of Incidence (°): 0-45

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

Damage Threshold, By Design: 10 J/cm<sup>2</sup> @ 515nm, 20ns, 20Hz

Regulatory Compliance

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:**

## Need different specifications?

Edmund Optics offers comprehensive custom manufacturing capabilities for a wide range of applications and 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

- >99.8% Reflectivity at Yb:YAG Harmonic Frequencies
- Guaranteed High Laser Damage Thresholds
- 10-5 Surface Quality for Reduced Scatter in Laser Applications
- **TECHSPEC® Laser Mirror Substrates** and **TECHSPEC® Nd:YAG Laser Line Mirrors** Also Available

TECHSPEC® Yb:YAG Laser Line Mirrors are designed to meet the demanding requirements of Ytterbium doped fiber (Yb:doped fiber) and thin-disk laser systems. These mirrors feature laser grade substrates with  $\lambda/10$  surface flatness and 10-5 surface quality to minimize scattering effects. The durable dielectric coatings are designed for high reflectivity at their design wavelengths as well as high damage thresholds at both continuous wave and pulsed laser operating conditions. TECHSPEC Yb:YAG Laser Line Mirrors are ideal for laser applications that include laser ablation, welding, drilling, cutting, and sintering. Dielectric Yb:YAG mirror coatings for applications which require 343nm, 515nm, and 1030nm are available.

**Note:** Contact us for customizable wavelengths, sizes, and varying AOI versions.

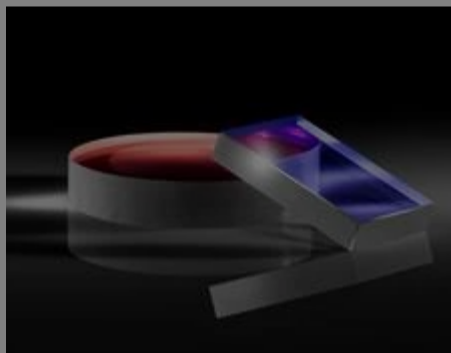
## Related Products



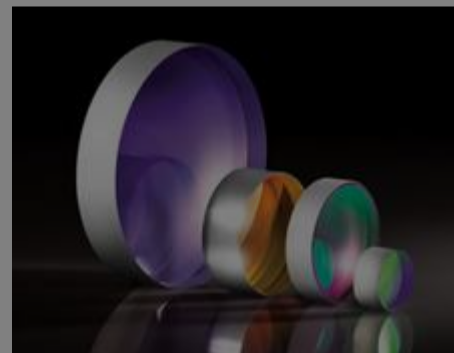
Kinematic Optical Mirror Mounts



Kinematic Square Optical Mounts



Laser Mirror Substrates



Nd:YAG Laser Line Mirrors

## Frequently Purchased Together



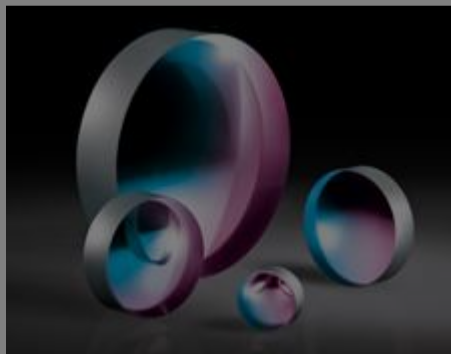
#34-299 - 350nm 25mm Dia., High Performance Longpass Filter  
€275,00

Qty



#34-302 - 375nm 25mm Dia., High Performance Longpass Filter  
€275,00

Qty



#48-318 - 25.0mm Dia. x -150 FL, Uncoated, UV Plano-Concave Lens  
€140,00





























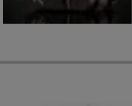

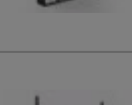

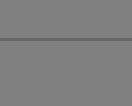

Qty



#48-319 - 25.0mm Dia. x -200 FL, Uncoated, UV Plano-Concave Lens  
€140,00











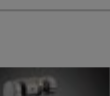

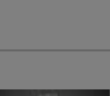



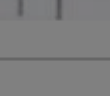

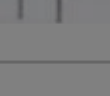



Qty

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	 12.7mm Optic Dia., Thin Mount, M4				€18,50	7 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.7mm Optic Dia., Thin Mount, 8-32					15 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	€19,50 <a href="#">Request Quote</a>	10 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	€19,50 <a href="#">Request Quote</a>	17 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.7mm Optic Dia., Optic Mount	Fixed		#64-556	€32,75 <a href="#">Request Quote</a>	11 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-865	€43,50 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	€59,00 <a href="#">Request Quote</a>	17 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	€59,00 <a href="#">Request Quote</a>	10 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	€63,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-850	€93,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	€96,50 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Compact Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#34-720	€101,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	€102,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-853	€104,00 <a href="#">Request Quote</a>	15 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	€106,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 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"/> 

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:**

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder				€116,00	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws					20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 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"/> 
<a href="#">MORE+</a>	 4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	€157,00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-814	€161,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-817	€182,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	€261,00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Top Adjust Kinematic Mount, Lead Screw	Adjustable - Tip-Tilt		#13-768	€270,00 <a href="#">Request Quote</a>	6 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., Top Adjust Kinematic Mount, Micrometer	Adjustable - Tip-Tilt		#13-769	€289,00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 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"/> 
<a href="#">MORE+</a>	 12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	€429,00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 

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:**

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

# Resources

## Media Type

- Application Note
- Technical Tool
- Trending in Optics
- Video
- Published Article
- FAQ

### APPLICATION NOTE

An Introduction to Optical Coatings

### TECHNICAL TOOL

Gaussian Beams Calculator

### APPLICATION NOTE

Effects of Laser Mirror Surface Flatness

Glossary

Scientific Paper

↑ TRENDING IN OPTICS

High  
Reflectivity

WEBINARS

High  
Reflectivity

APPLICATION NOTE

Highly  
Reflective  
Coatings

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:**

[View More](#)