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TECHSPEC® 50.0mm Dia. 193nm 45°, Excimer Laser Line Mirror



TECHSPEC Excimer Laser Line Mirrors

Stock **#48-931** [CONTACT US](#)

⊖ 1 ⊕ €426⁰⁰

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Volume Pricing	
Qty 1-5	€426,00 each
Qty 6+	€371,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Mirror **Type:**

Note:
Extended exposure to moisture can affect performance, please contact us for more specific handling instructions.

Physical & Mechanical Properties

Parallelism (arcmin):

<3	Clear Aperture (%):
>90	
	Back Surface:
Ground	
	Diameter (mm):
50.00 +0.0/-0.2	
	Thickness (mm):
10.00 ±0.2	
Optical Properties	
	Surface Quality:
10-5	
	Reflection at DWL (%):
97	
	Coating Specification:
R _{abs} >97% @ 193nm	
	Surface Flatness (P-V):
λ/10	
	Coating Type:
Dielectric	
	Coating:
Dielectric Mirror (193nm)	
	Design Wavelength DWL (nm):
193	
	Angle of Incidence (°):
45	
	Substrate: <input type="checkbox"/>
Fused Silica (Corning 7980)	
	Damage Threshold, By Design: <input type="checkbox"/>
1.5 J/cm ² @ 10ns	

Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	REACH 241:
Compliant	

Product Details

- High Damage Threshold of up to 1.5 J/cm²
- Low Loss Dielectric Coatings
- Designed for 193nm and 248nm Lasers

TECHSPEC® Excimer Laser Line Mirrors have been optimized for use with high power excimer lasers. The mirrors are ideal for the most demanding UV applications. A precision UV grade fused silica substrate provides excellent thermal stability and low wavefront distortion. TECHSPEC® Excimer Laser Line Mirrors are offered in 12.5, 25, and 50mm diameters, with thicknesses of 6 or 10mm. These mirrors are available with DWL of 193nm or 248nm. All mirrors are designed for a 45° angle of incidence and feature very low polarization dependence. [Contact us](#) for custom 0° angle of incidence versions.

Our line of [TECHSPEC® laser line mirrors](#) are specially designed for even the most demanding laser applications. Combining laser-quality substrates of up to 10-5 surface quality, with a dense reflective coating, and a damage threshold specific to the laser type and wavelength, these mirrors are ideal for a wide range of applications requiring precision reflectivity and incredible durability. All TECHSPEC® laser line mirrors are designed to minimize scatter loss and to be easily mounted into any optical system.



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

Custom

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, 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](#).

Compatible Mounts

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