

TECHSPEC®

600-1000nm, 25.4mm Dia. x 100mm EFL, Ultrafast-Enhanced Silver Concave Laser Mirror



TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock #13-065 **5 In Stock**

1 **£148^{.80}**

ADD TO CART

Volume Pricing	
Qty 1-5	£148.80 each
Qty 6-9	£131.20 each
Qty 10+	£116.80 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:	Concave Mirror			
Physical & Mechanical Properties				
Diameter (mm):	25.40 +0.00/-0.20	Clear Aperture (%) :	80	
Edge Thickness ET (mm):	6.35 ±0.10			
Optical Properties				
Coating Type:	Ultrafast-Enhanced Silver	Coating:	Ultrafast-Enhanced Silver (600-1000nm)	
Wavelength Range (nm):	600 - 1000		Effective Focal Length EFL (mm):	100.00
Substrate:	Fused Silica (Corning 7980)	Coating Specification:	R _{avg} >99% @ 600 - 1000nm, 0° R _s >99% @ 540 - 1000nm, 45° R _p >98.5% @ 730 - 870nm, 45°	
Surface Quality:	20-10		Damage Threshold, Reference:	0.3 J/cm ² @ 800nm, 48fs, 1 pulse (typical) 0.16 J/cm ² @ 800nm, 48fs, 100Hz, 1000 pulses (typical)

GDD Specification:	0 ±20fs ² @ 600 - 1050nm	Irregularity (P-V) @ 632.8nm:	λ/10
Radius of Curvature (mm):	200.00		

Regulatory Compliance

Certificate of Conformance: [View](#)

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, 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

- Ideal for Focusing Ti:sapphire and Yb:doped Laser Pulses
- Reflectivity >99% at 600 – 1000nm or 800 – 1150nm
- Low Group Delay Dispersion as Low as 0 ±20fs²
- Effective Focal Lengths from 25 to 500mm
- **TECHSPEC® Ultrafast-Enhanced Silver Laser Mirrors** Available

TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors feature silver coatings that are enhanced with a dielectric coating to provide increased reflectivity at 600 – 1000nm or 800 – 1150nm. These mirrors have an intrinsically low group delay dispersion (GDD) across their wavelength range, making them ideal for focusing or redirecting laser light from femtosecond lasers such as Ti:sapphire and Yb:doped lasers. Their broad wavelength range allows them to be used in applications that require a larger bandwidth than dielectric coated low GDD mirrors can provide. TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors are available in standard imperial sizes and with effective focal lengths up to 500mm.

Note: TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors can be designed with different wavelength ranges for other ultrafast laser types.

Technical Information

600-1000nm Ultrafast-Enhanced Silver

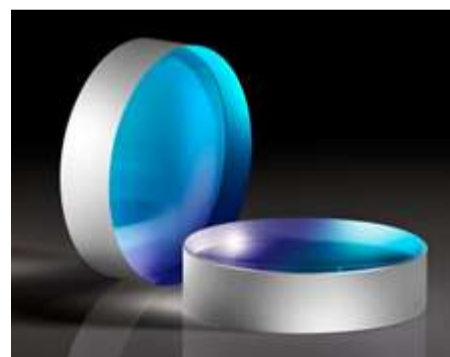
Related Products



Ultrafast Optics



Ultrafast-Enhanced Silver Laser Mirrors

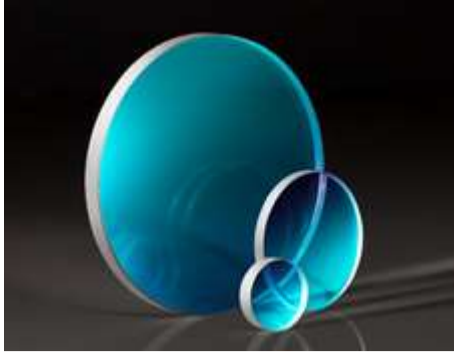


Concave Laser Line Mirrors



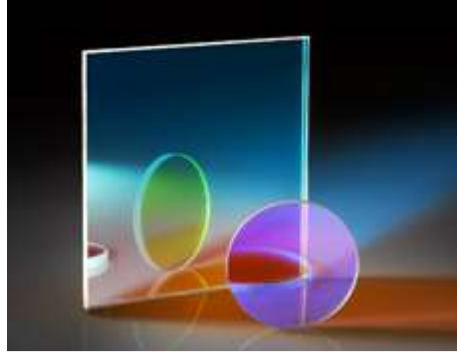
Uncoated Concave Laser Mirrors

Frequently Purchased Together



#34-242 - 25mm Dia., Uncoated, 30' Wedge, Fused Silica Wedged Window
£128.80

Qty



#52-535 - 50mm Diameter, Green Dichroic Filter
£35.80

Qty



#65-533 - 6.0mm Diameter x 30.0mm FL, 1064nm V-Coat, PCX Lens
£39.20

Qty



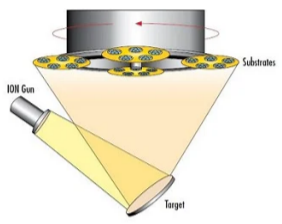
#69-590 - 6.0mm Diameter x 36.0mm FL, 1064nm V-Coat, PCX Lens
£39.60

Qty

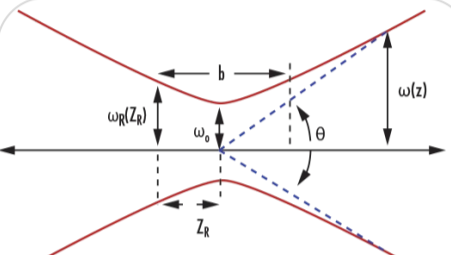
Resources

Media Type

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



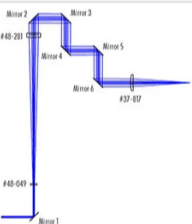
APPLICATION NOTE
An Introduction to Optical Coatings



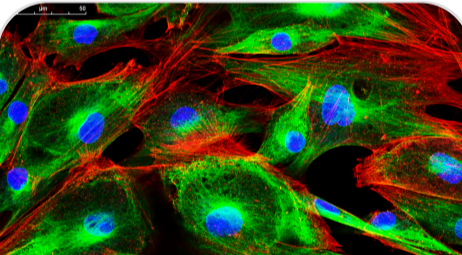
TECHNICAL TOOL
Gaussian Beams Calculator



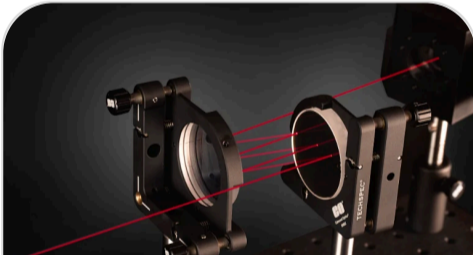
CASE STUDIES
Laser Optics for Eye Surgery



APPLICATION NOTE
Effects of Laser Mirror Surface Flatness



APPLICATION NOTE
Basics of Ultrafast Lasers



APPLICATION NOTE
Highly-Dispersive Mirrors

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