

25.4mm Dia., 255 - 277nm, Negative Dispersion UV Ultrafast Mirrors

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UltraFast Innovations (UFI) 255-277nm Negative Dispersion UV Ultrafast Mirrors

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₹83,300

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SPECIFICATIONS

General

Model Number:

HD100

Physical & Mechanical Properties

10	Wedge Angle (arcmin):
80	Clear Aperture (%):
Commercial Polish	Back Surface:
25.40 +0.00/-0.05	Diameter (mm):
6.35 ±0.20	Thickness (mm):
Optical Properties	
Coating Specification: R _{avg} >80% @ 255 - 277nm (5° AOI, p-polarization)	
GDD Specification: -145fs ² @ 255 - 277nm (5° AOI, p-polarization)	
255 - 277	Wavelength Range (nm):
N/10	Irregularity (P-V) @ 632.8nm:
Dielectric	Coating Type:
Highly Dispersive UV (255-277nm)	Coating:
266	Design Wavelength DWL (nm):
5	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: □

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

- Negative GDD of -145 fs²
- Angle of Incidence of 5° between 255 - 277nm
- Ideal for Pulse Compression or Dispersion Compensation of UV Ultrafast Laser Beams
- Unique UV Negative Dispersion Ultrafast Coating

UltraFast Innovations (UFI) 255-277nm Negative Dispersion UV Ultrafast Mirrors feature fused silica substrates with excellent thermal stability and 25.4mm diameter to facilitate integration into UV applications. Based on dispersive optical interference, the ultrafast chirped coating provides these mirrors with a negative GDD of -145 fs². These mirrors are designed to provide a high degree of control over beam stability and feature a reflectance >80% (P-polarization) between 255 - 277nm. At a design angle of incidence (AOI) of 5°, these mirrors maximize the number of reflections between a pair of ultrafast mirrors while maintaining a small footprint. UltraFast Innovations (UFI) 255-277nm Negative Dispersion UV Ultrafast Mirrors allow compressing UV ultrafast laser pulses such as those generated from the 3rd harmonic of Ti:sapphire lasers and 4th harmonic of Yb:doped lasers. Please contact us if your laser system requires a custom size, wavelength, or pulse profile.

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

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