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12.7mm Dia. 5°, 1030nm Highly-Dispersive Broadband Ultrafast Mirror

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Stock #12-327 [CONTACT US](#)

⊖ 1 ⊕ ₹34,643

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Volume Pricing	
Qty 1-3	₹34,643 each
Qty 4-7	₹30,751 each
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General

Laser Mirror **Type:**

Yb:doped 1st Harmonic **Typical Applications:**

HD120 **Model Number:**

Physical & Mechanical Properties

10 ±5	Wedge Angle (arcmin):
80	Clear Aperture (%):
Commercial Polish	Back Surface:
12.70 +0.0/-0.1	Diameter (mm):
6.35 ±0.2	Thickness (mm):

Optical Properties

99.9 (typical, p-polarization)	Reflection at DWL (%):
R _{avg} >99.8%, GDD = -200 fs ² @ 950 - 1120nm (p-polarization) R _{abs} >99.9% @ 1030nm (typical, p-polarization)	Coating Specification:
-200fs ² @ 950 - 1120nm	GDD Specification:
950 - 1120	Wavelength Range (nm):
M10	Irregularity (P-V) @ 632.8nm:
Dielectric	Coating Type:
Ultrafast (950-1120nm)	Coating:
1030	Design Wavelength DWL (nm):
5	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
>0.1 J/cm ² for 190 fs @ 1 kHz rep rate @ 1030nm	Damage Threshold, Reference: <input type="checkbox"/>

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:
Germany	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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](#).

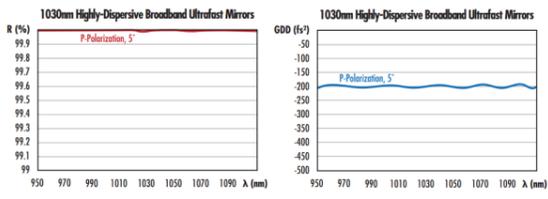
Product Details

- Negative GDD of -200 fs² at 5° AOI
- >99.8% Reflection (p-polarization) between 950 - 1120nm
- Designed for Pulse Compression of Yb:doped Fiber Lasers
- Broadband Ultrafast Chirped Coating

UltraFast Innovations (UFI) 1030nm Highly-Dispersive Broadband Ultrafast Mirrors are used for pulse compression and dispersion compensation of near infrared (NIR) ultrafast pulses, such as from Yb:doped fiber lasers. These mirrors provide a minimum reflectance of 99.8% within their wavelength range and a typical reflectance of >99.9% at their design wavelength of 1030nm. Their multilayer chirped ultrafast coating is optimized to provide dispersive optical interference as well as a negative group delay dispersion (GDD) of -200fs² across their broad wavelength range. UFI 1030nm Highly-Dispersive Broadband Ultrafast Mirrors are designed to provide a high degree of control over beam stability, as well as control of third and higher-order dispersions. The 5° angle of incidence is ideal for maximizing the number of reflections between a pair of ultrafast mirrors in tight spaces, such as intra-cavity applications.

Standard imperial sizes of ½" or 1" (12.7mm or 25.4mm) are available; please contact us if your laser system requires a custom size, wavelength, or ultrashort pulses and we would be happy to find the right solution for your application.

Technical Information



Compatible Mounts