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25.4mm Dia., 700 - 1100nm, Positive Dispersion Ultrafast Mirror

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UltraFast Innovations (UFI) Positive Dispersion Ultrafast Mirrors

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⊖ 1 ⊕ €728^{.00}

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Qty 1-9	€728,00 each
Qty 10+	€525,00 each
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General

CM1512 **Model Number:**

Physical & Mechanical Properties

10 **Wedge Angle (arcmin):**

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} >99.5% @ 700 - 1100nm (5° AOI, p-polarization)

GDD Specification:
+100fs² @ 700 - 1100nm (5° AOI, p-polarization)

700 - 1100 **Wavelength Range (nm):**

M10 **Irregularity (P-V) @ 632.8nm:**

Dielectric **Coating Type:**

Positive Dispersion (700-1100nm) **Coating:**

700 - 1100 **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:**

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

- Positive GDD up to 100fs² at 5° AOI
- High Reflectance >99.5% for S and P Polarizations
- Broadband Performance for 700 - 1100nm
- [Ultrafast Dispersion-Compensating Prisms](#) Also Available

UltraFast Innovations (UFI) Positive Dispersion Ultrafast Mirrors provide positive GDD with the same sign of GDD as the most common materials in this wavelength range. These positively chirped mirrors can be used for pulse compression and chirped-pulsed amplifier systems such as hybrid prism/mirror compressors. These mirrors feature high reflectance >99.5% for both S and P polarizations between 700 - 1100nm. 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) Positive Dispersion Ultrafast Mirrors feature fused silica substrates with excellent thermal stability and a 25.4mm diameter to facilitate integration into NIR applications. Please contact us if your laser system requires a custom size, wavelength, or pulse profile.