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25.4mm Dia., 650 - 1350nm, Complementary Chirped Mirror Pair

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UltraFast Innovations (UFI) Ultra-Broadband Complementary Chirped Mirror Pairs

Stock **#14-674** **4 In Stock**

⊖ 1 ⊕ C\$3,416⁰⁰

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| Volume Pricing | |
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| Qty 1-4 | C\$3,416.00 each |
| Qty 5-9 | C\$3,003.00 each |
| Qty 10+ | C\$2,681.00 each |
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Product Downloads

General

Sold as a Set of 2 **Note:**

PC147 **Model Number:**

Physical & Mechanical Properties

Wedge Angle (arcmin):

| | |
|----------------------|----------------------------|
| 10 ±5 | |
| 80 | Clear Aperture (%): |
| Commercial Polish | Back Surface: |
| 25.40 +0.00/-0.10 | Diameter (mm): |
| 6.35 ±0.20 | Thickness (mm): |
| Protective as needed | Bevel: |

Optical Properties

| | |
|---|--|
| R _{avg} >99% @ 650 - 1350nm (5° AOI, p-polarization) | Coating Specification: |
| -60fs ² @ 650 - 1350nm (5° AOI, p-polarization) | GDD Specification: |
| 650 - 1350 | Wavelength Range (nm): |
| M10 | Irregularity (P-V) @ 632.8nm: |
| Dielectric | Coating Type: |
| Complementary Chirped Pair (650-1350nm) | Coating: |
| 5 | Angle of Incidence (°): |
| Fused Silica (Corning 7980) | Substrate: <input type="checkbox"/> |
| 0.2 J/cm ² @ 800nm, 50fs | Damage Threshold, By Design: <input type="checkbox"/> |

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

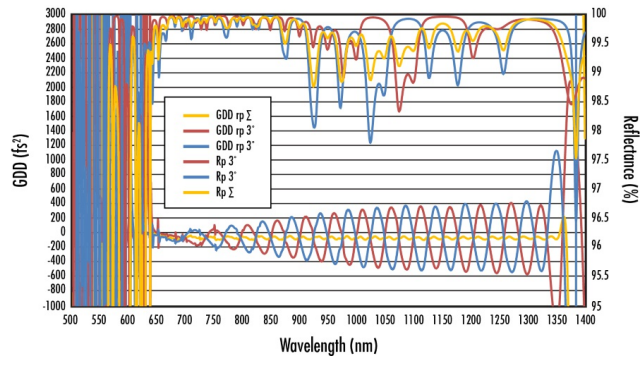
- Ideal for Chirped-Pulse Amplifier Systems and Ultra-Broadband Laser Oscillators
- Ultra-Broadband Design Supports Dispersion Compensation
- Negative GDD as Low as -60fs² and High Reflectivity (>99%) at 600 – 950nm or 650 – 1350nm

UltraFast Innovations (UFI) Ultra-Broadband Complementary Chirped Mirror Pairs are designed to provide dispersion compensation for ultrafast pulses. The matched mirrors feature out-of-phase group delay dispersion (GDD) oscillations leading to a near-constant GDD performance with minimal oscillations. The broadband coating design covers the most common ultrafast laser lines, including Ti:sapphire and Yb:doped fiber, providing negative GDDs as low as -60fs² and average reflectance of >99% (p-polarization) at 600 – 950nm or 650 – 1350nm. The narrow angles of incidence (AOI) allows many reflections of the ultrafast pulse to effectively compensate for dispersion effects. UFI Ultra-Broadband Complementary Chirped Mirror Pairs are ideal for dispersion compensation in ultrafast laser applications, including chirped-pulse amplifier systems and ultra-broadband laser oscillators. Please contact us for custom mirror pairs with different geometries, bandwidths, or spectral specifications.

Note: Complementary Chirped Mirror Pairs are sold in pairs.

Technical Information

650 - 1350nm, Complementary Chirped Mirror Pair
Coating Reflectivity/GDD Performance



Compatible Mounts