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12.7mm Dia., 650 - 1350nm, Complementary Chirped Mirror Pair

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

Stock **#14-673** **20+ In Stock**

- 1 +

A$2,632.00

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Volume Pricing	
Qty 1-9	**A$2,632.00** each
Qty 10+	**A$2,328.00** each
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General

Note:

Sold as a Set of 2

Model Number:

PC147

Physical & Mechanical Properties

Wedge Angle (arcmin):

10 ±5

Clear Aperture (%):
80

Back Surface:
Commercial Polish

Diameter (mm):
12.70 +0.00/-0.10

Thickness (mm):
6.35 ±0.20

Bevel:
Protective as needed

Optical Properties

Coating Specification:
R_{avg} >99% @ 650 - 1350nm (3° AOI, p-polarization)

GDD Specification:
-60fs^2 @ 650 - 1350nm (3° AOI, p-polarization)

Wavelength Range (nm):
650 - 1350

Irregularity (P-V) @ 632.8nm:
λ/10

Coating Type:
Dielectric

Coating:
Complementary Chirped Pair (650-1350nm)

Angle of Incidence (°):
5

Substrate:
Fused Silica (Corning 7980)

Damage Threshold, By Design:
0.2 J/cm^2 @ 800nm, 50fs

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 235:
Compliant

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.

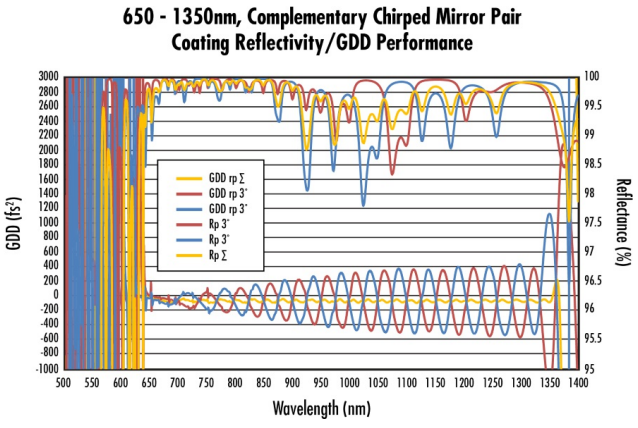
Product Details

- Ideal for Chirped-Pulse Amplifier Systems and Ultra-Broadband Laser Oscillators
- Ultra-Broadband Design Supports Dispersion Compensation
- Negative GDD as Low as -60fs^2 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 -60fs^2 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



Compatible Mounts

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