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Lightpath 7100410 | 4mm FL, f/1.2, Thermal Imaging Lens Assembly

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Stock #15-685 CLEARANCE **20+ In Stock**

MRP ₹7,869

Price inclusive of all taxes

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General

Thickness: 0.70mm
 Material: Si
 Compatible Window:
 Lightpath Lens Code:
 7100410

Physical & Mechanical Properties

3.50
 Clear Aperture CA (mm):
 Construction:

Length (mm):
6.50

Front Diameter (mm):
9.93

Optical Properties

Effective Focal Length EFL (mm):
4.00

Substrate:
Black Diamond™ BD-6

f#:
1.2

Coating:
BBAR (8000-12000nm)

Wavelength Range (nm):
8000 - 12000

Coating Specification:
 $R_{avg} < 0.75\%$ @ 8000 - 12,000nm

Index of Refraction (n_d) @ 10 μ m:
2.7816

Index of Refraction (n_d) @ 14 μ m:
2.7683

Index of Refraction (n_d) @ 4 μ m:
2.7978

Working Distance (mm):
5.33

Sensor

Recommended Detector Format (H x V/Pixel Size):
320 x 240 / 12 μ m

Threading & Mounting

Mounting Threads:
M10 x 0.5

Thread Length (mm):
6.50

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
22.5

Thermo-optic coefficient dn/dT:
30.5 x 10⁻⁶ @ 10 μ m

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
[View](#)

Reach 233:
Compliant

Country of Origin:
China

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

Product Details

- Precision Molded Chalcogenide Lenses
- Compact Designs for Thermal Imaging Cameras
- Focal Lengths from 2.7 to 24mm

Lightpath® Thermal Imaging Assemblies are a cost-effective alternative to diamond turned infrared lenses for applications in the mid-wave infrared (MMR) or long-wave infrared (LWR). These lenses are molded from BD6™, a chalcogenide glass that offers high transmission from 1 to 15 μ m and is also optically athermalized from -40 to +85°C. These lenses feature a broadband antireflection coating from 8 to 12 μ m and are mounted in compact black anodized aluminum housings that are threaded to allow for adjustable focus. Lightpath Thermal Imaging Assemblies are ideal for medical diagnostics, gas sensing, thermography, thermal imaging, security, and manufacturing process control applications. Lenses with focal lengths from 2.7 to 24mm are available, covering detector sizes from 80 x 80 to 640 x 480 pixels.