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Lightpath 7100380 | 2.7mm FL, f/1.3, Thermal Imaging Lens Assembly

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Stock #15-684 **14 In Stock**

MRP ₹15,639

! Price inclusive of all taxes

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General

Thickness: 0.65mm
Material: Si

Compatible Window:

7100380

Lightpath Lens Code:

Physical & Mechanical Properties

2.35

Clear Aperture CA (mm):

Construction:

Length (mm):
5.00

Front Diameter (mm):
10.00

Optical Properties

Effective Focal Length EFL (mm):
2.70

Substrate:
Black Diamond™ BD-6

f#:
1.3

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):
3.64

Sensor

Recommended Detector Format (H x V/Pixel Size):
80 x 80 / 34 μ m

Threading & Mounting

Mounting Threads:
M10 x 0.5

Thread Length (mm):
5.00

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 247:
Compliant

Country of Origin:
China

Imported By:
Edmund Optics India Private Limited
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6th Cross Rd, Binnamangala,
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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 (LWIR). 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.