

[See all 7 Products in Family](#)

Lightpath 7100306 | 6.3mm FL, f/1.3, Thermal Imaging Lens Assembly

See More by [Lightpath®](#)



Stock #15-687 CLEARANCE **2 In Stock**

MRP ₹10,392

📌 Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1+	₹10,392 each
Need More?	Request Quote

Product Downloads

General

Thickness: 0.70mm Material: Si	Compatible Window:
7100306	Lightpath Lens Code:

Physical & Mechanical Properties

5.11	Clear Aperture CA (mm):
	Construction:

8.43 **Length (mm):**

16.00 **Front Diameter (mm):**

Optical Properties

6.30 **Effective Focal Length EFL (mm):**

Black Diamond™ BD-6 **Substrate:**

1.3 **f#:**

BBAR (8000-12000nm) **Coating:**

8000 - 12000 **Wavelength Range (nm):**

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

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

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

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

8.66 **Working Distance (mm):**

Sensor

320 x 240 / 17 μ m **Recommended Detector Format (H x V/Pixel Size):**

Threading & Mounting

M16 x 0.5 **Mounting Threads:**

8.43 **Thread Length (mm):**

Material Properties

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

30.5×10^{-6} @ 10 μ m **Thermo-optic coefficient dn/dT:**

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 233:**

China **Country of Origin:**

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 **Imported By:**

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.