

Lightpath 7100338 | 19mm FL, f/1.1, Thermal Imaging Lens Assembly

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€516^{.00}

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Product Downloads

General	
Thickness: 0.70mm Material: Si	Compatible Window:
7100338	Lightpath Lens Code:

Physical & Mechanical Properties	
17.84	Clear Aperture CA (mm):

Construction:	Matte Black Anodized Aluminum Housing
Length (mm):	25.50
Front Diameter (mm):	24.00

Optical Properties

Effective Focal Length EFL (mm):	19.00
Substrate: ☐	Black Diamond™ BD-6
f##:	1.1
Coating:	BBAR (8000-12000nm)
Wavelength Range (nm):	8000 - 12000
Coating Specification:	R _{avg} <0.75% @ 8000 - 12,000nm
Index of Refraction (n _d) @ 10μm:	2.7816
Index of Refraction (n _d) @ 14μm:	2.7683
Index of Refraction (n _d) @ 4μm:	2.7978
Working Distance (mm):	10.08

Sensor

Recommended Detector Format (H x V/Pixel Size):	640 x 480 / 17μm
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Threading & Mounting

Mounting Threads:	M25 x 0.5
Thread Length (mm):	8.00

Material Properties

Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	22.5
Thermo-optic coefficient dn/dT:	30.5 x 10 ⁻⁶ @ 10μm

Regulatory Compliance

RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 247:	Compliant

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 (MMIR) or long-wave infrared (LWIR). These lenses are molded from BD6™, a chalcogenide glass that offers high transmission from 1 to 15μm and is also optically athermalized from -40 to +85°C. These lenses feature a broadband antireflection coating from 8 to 12μm 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.