

Lightpath 7100331 | 5.3mm FL, f/1.3, Thermal Imaging Lens Assembly

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1

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C\$243⁰⁰

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General	
Thickness: 0.70mm Material: Si	Compatible Window:
7100331	Lightpath Lens Code:

Physical & Mechanical Properties	
4.28	Clear Aperture CA (mm):
Matte Black Anodized Aluminum Housing	Construction:

7.25	Length (mm):
12.00	Front Diameter (mm):
Optical Properties	
5.30	Effective Focal Length EFL (mm):
Black Diamond™ BD-6	Substrate: ☐
1.3	f/#:
BBAR (8000-12000nm)	Coating:
8000 - 12000	Wavelength Range (nm):
Ravg <0.75% @ 8000 - 12,000nm	Coating Specification:
2.7816	Index of Refraction (n _d) @ 10μm:
2.7683	Index of Refraction (n _d) @ 14μm:
2.7978	Index of Refraction (n _d) @ 4μm:
7.30	Working Distance (mm):
Sensor	
320 x 240 / 12μm	Recommended Detector Format (H x V/Pixel Size):
Threading & Mounting	
M12 x 0.5	Mounting Threads:
3.75	Thread Length (mm):
Material Properties	
22.5	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
30.5 x 10 ⁻⁶ @ 10μm	Thermo-optic coefficient dn/dT:
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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 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.