

# Lightpath 7100341 | 20mm FL, f/1.2, Thermal Imaging Lens Assembly

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Effective Focal Length EFL (mm):  
20.00

Substrate: ☐  
Black Diamond™ BD-6

f/#:  
1.2

Coating:  
BBAR (8000-12000nm)

Wavelength Range (nm):  
8000 - 12000

|                                                                            |
|----------------------------------------------------------------------------|
| <b>Clear Aperture CA (mm):</b><br>17.00                                    |
| <b>Coating Specification:</b><br>R <sub>avg</sub> <0.75% @ 8000 - 12,000nm |
| <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b><br>22.5  |
| <b>Compatible Window:</b><br>Thickness: 0.70mm<br>Material: Si             |
| <b>Construction:</b><br>Matte Black Anodized Aluminum Housing              |
| <b>Index of Refraction n<sub>d</sub> @ 10µm:</b><br>2.7816                 |
| <b>Index of Refraction n<sub>d</sub> @ 14µm:</b><br>2.7683                 |
| <b>Index of Refraction n<sub>d</sub> @ 4µm:</b><br>2.7978                  |
| <b>Length (mm):</b><br>21.42                                               |
| <b>Lightpath Lens Code:</b><br>7100341                                     |
| <b>Mounting Threads:</b><br>M19 x 0.5                                      |
| <b>Thermo-optic coefficient dn/dT:</b><br>30.5 x 10 <sup>-6</sup> @ 10µm   |
| <b>Working Distance (mm):</b><br>7.96                                      |
| <b>Front Diameter (mm):</b><br>25.40                                       |
| <b>Thread Length (mm):</b><br>6.50                                         |
| <b>Recommended Detector Format (H x V/Pixel Size):</b><br>640 x 512 / 10µm |

Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Compliant</a>             |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |
| <b>Reach 233:</b><br><a href="#">Compliant</a>             |