

TECHSPEC<sup>®</sup> 100mm SWIR Series Fixed Focal Length Lens, M42 x 1.0



100mm SWIR Series Fixed Focal Length Lens

Stock #83-172 3-4 DAYS

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+

£2,363.00

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£2,363.00

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Iris Option:  
Variable

Length (mm):  
191.80

Horizontal Field of View, 1/2" Sensor:  
26.4mm - 3.6°

Horizontal Field of View, 2/3" Sensor:  
36.3mm - 5.0°

Filter Thread:

|                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|
| M72 x0.75 (Female)                                                                                                               |
| <b>Maximum Diameter (mm):</b><br>84                                                                                              |
| <b>Outer Diameter (mm):</b><br>84.00                                                                                             |
| <b>Weight (g):</b><br>1853                                                                                                       |
| <b>Horizontal Field of View, 1/3" Sensor:</b><br>19.8mm - 2.7°                                                                   |
| <b>Maximum Rear Protrusion (mm):</b><br>0                                                                                        |
| <b>Horizontal Field of View, 1" Sensor:</b><br>52.8mm - 7.3°                                                                     |
| <b>Maximum Image Circle (mm):</b><br>25.60                                                                                       |
| <b>Numerical Aperture NA, Object Side:</b><br>0.0455                                                                             |
| <b>Horizontal Field of View @ Max Sensor Format:</b><br>71.4mm - 9.9°                                                            |
| <b>Flange Distance (mm):</b><br>5.8                                                                                              |
| <b>Horizontal Field of View, 4/3" Sensor:</b><br>71.4mm - 9.97°                                                                  |
| <b>Horizontal Field of View, 1.1" Sensor:</b><br>58.6mm - 8.1°                                                                   |
| <b>Number of Elements (Groups):</b><br>10 (10)                                                                                   |
| <b>Note:</b><br>Lens will cover larger 25.6mm and 20.5mm line scan sensors.                                                      |
| <b>Horizontal Field of View, 1/1.8" Sensor:</b><br>29.7mm - 4.1°                                                                 |
| <b>Horizontal Field of View, 1/2.5" Sensor:</b><br>23.9mm - 3.3°                                                                 |
| <b>Type:</b><br>Fixed Focal Length Lens                                                                                          |
| <b>Focal Length FL (mm):</b><br>100.00                                                                                           |
| <b>Primary Magnification PMA<del>G</del></b><br>0.243                                                                            |
| <b>Maximum Sensor Format:</b><br>4/3"                                                                                            |
| <b>Working Distance (mm):</b><br>400 - ∞                                                                                         |
| <b>Mount:</b><br>M42 x 1.0                                                                                                       |
| <b>Aperture (f/#):</b><br>f/2.25 - f/22                                                                                          |
| <b>Coating:</b><br>0.8 - 1.8µm BBAR                                                                                              |
| <b>Coating Specification:</b><br>0.8 - 1.8µm BBAR                                                                                |
| <b>Entrance Pupil Position (mm):</b><br>81.86                                                                                    |
| <b>Horizontal Field of View, 1/4" Sensor:</b><br>14.8mm - 2.1°                                                                   |
| <b>Object Space Principal Plane (mm):</b><br>105.28                                                                              |
| <b>Image Space Principal Plane (mm):</b><br>-51.10                                                                               |
| <b>Field of View at Max Sensor Format:</b><br>Horizontal: 84.5mm - 11.7°<br>Vertical: 63.3mm - 8.8°<br>Diagonal: 105.4mm - 14.6° |
| <b>Maximum Distortion (%):</b><br>-0.25                                                                                          |
| <b>Exit Pupil Position (mm):</b><br>-81.67                                                                                       |
| <b>Horizontal Field of View, 25.6mm Sensor:</b><br>104.1mm - 14.6°                                                               |
| <b>Horizontal Field of View, 20.5mm Sensor:</b><br>83.2mm - 11.7°                                                                |
| <b>Lens Wavelength Range:</b><br>SWIR                                                                                            |

Imaging Lens Type:  
SWIR Lens

Storage Temperature (°C):  
-20 to +60 For questions regarding operating temperature please contact our support team

Regulatory Compliance

RoHS:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

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