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SirZ 9 SWIR 9mm F/2 Fixed Focal Lens

SirZ Series, Suitable for 0.9 – 1.7 μ m Detectors (SWIR)



Key Features:

- SWIR lenses deliver higher performance than standard visible lenses when using SWIR cameras
- Fits 20.5mm Diagonal
- The SWIR spectrum is an ideal choice for a variety of applications, including:
 - Solar cell inspection
 - Imaging through fog
 - Glass processing
 - Security
 - Biomedical imaging

SirZ 9 Specifications:

Optical Specifications (nominal values)

Focal Length	9mm
F/#	f/2
Spectral Range	0.9 - 1.7 microns
Image Format	640 x 512 pixels, 25 µm pixel size
Image Diagonal	20.5mm
Back Focal Length	M42 Mount
Cold Stop to FPA Distance	N/A
Average Transmission (All elements AR coated)	≥ 93%
Horizontal FOV	52°
Distortion	< 3%
On-Axis MTF	≥ 82% at 20 lp/mm theoretical
MOD	5 meters

Mechanical Specifications

Max Dimensions	Length = 112.8 mm, Front OD = 81mm
Focus/Zoom Mechanisms	Manual
Zoom Time (WFOV to NFOV)	N/A
Through-Zoom Boresight	N/A
Weight	7.8 grams
Mount	M42 Mount
Operating Temperature	-40°C to +60°C
Storage Temperature	- 40°C to + 80°C

SirZ 9 Field Of View Data:

FOV (9mm)

HFOV	320x240	480x384	640x512
30 microns	46.85		
20 microns	41.63	53.13	60.64
15 microns	28.07	38.66	46.85