

SirZ

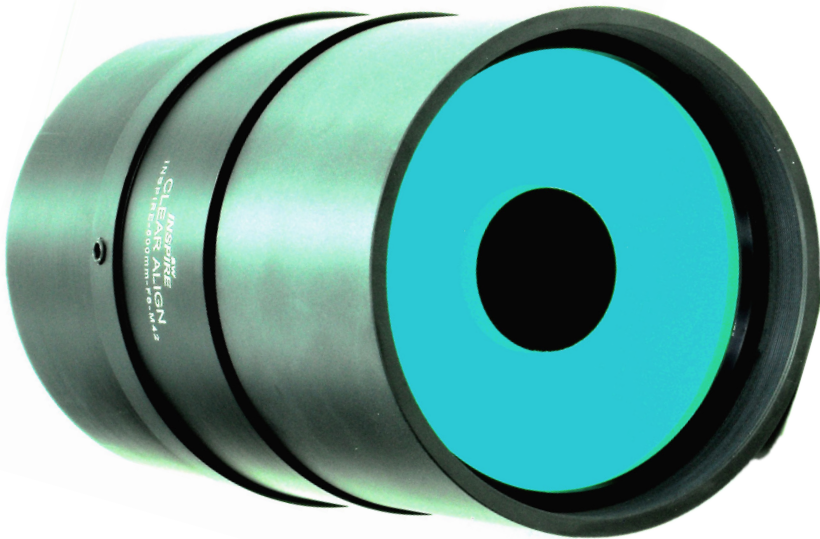
MirZ

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SirZ 500 SirZ 500mm F/5.8 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 500 Specifications:

Optical Specifications (nominal values)

Focal Length	500mm
F/#	f/5.8
Spectral Range	0.7-1.7 μm
Image Format	640 x 512 pixels, 25 μm pixel size
Image Diagonal	20.5mm
Back Focal Length	15.3mm
Cold Stop to FPA Distance	N/A
Average Transmission (All elements AR coated)	$\geq 78\%$
Horizontal FOV	1.83°
Distortion	< 0.5%
On-Axis MTF	$\geq 60\%$ at 20 lp/mm theoretical
MOD	400 meters

Mechanical Specifications

Max Dimensions	Length = 164mm, Front OD = 112mm
Focus/Zoom Mechanisms	Manual
Zoom Time (WFOV to NFOV)	N/A
Through-Zoom Boresight	N/A
Weight	1400 grams
Mount	M42 Mount
Operating Temperature	-40 °C to +60°C
Storage Temperature	-40°C to + 80°C

SirZ 500 Field Of View Data:

FOV (500mm)

HFOV	320x240	480x384	640x512
30 microns	1.1		
25 microns	0.92	1.37	1.83
15 microns	0.55	0.83	1.1