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MirZ 1522 MWIR 15-330mm (X22) F/4 Continuous Zoom Lens

MirZ Series, Suitable for 3-5 μ m Cooled Detectors (MWIR)



Key Features:

- Fits the space claim of the popularized 15-300 mm f/4 packages while delivering 10% more in range – 330mm in Narrow FOV
- Recognition of small targets at ranges up to 8km makes this lens ideal for medium range IR applications
- Motorized Continuous Zoom allows you to zoom while keeping the imagery sharp
- The lens controller auto compensates thermal deviations and keeps the imagery crisp within a wide temperature range
- Athena™ programmable DSP controller gives you the freedom to set targets and to calibrate the lens for different field conditions
- Operate and calibrate the lens with our simple and friendly GUI, or through common communication protocols
- First x22 f/4 lens on the market

MirZ 1522 SPECIFICATIONS:

Optical Specifications (nominal values)	WFOV	NFOV
Focal Length	15mm	330mm
F/#	f/4.0	
Spectral Range	3.4 - 5.1 microns	
Image Format	640 x 512 pixels, 15 micron pixel size	
Image Diagonal	12.3mm	
Back Focal Length	24.0mm (+/-3mm)	
Cold Stop to FPA Distance	N/A	
Average Transmission (All elements AR coated)	≥ 87%	
Horizontal FOV	32.62°	1.66°
Distortion	<5.5%	<2.7%
On-Axis MTF	> 47% at 25 lp/mm	
MOD	5 meters	50 meters

Mechanical Specifications

Max Dimensions	Length = 124mm, Front OD = 96mm
Focus/Zoom Mechanisms	Continuous - Motorized & Synchronized
Zoom Time (WFOV to NFOV)	< 3.5 sec. @ 25°C
Through-Zoom Boresight	< 5 pixel deviation
Weight	950 grams
Mount	Customized to Specification
Operating Temperature	-30°C to +65°C
Storage Temperature	-40°C to +80°C

Electronic and Communications

Lens Control	Athena™ Programmable DSP Controller
Drive Voltage & Current Consumption	12VDC, 1.5A Peak / 0.3A Average / 0.1A Idle
Communication Interface	RS422/232
Communication Protocol	Athena™ GUI & Protocol

MirZ 1522 FIELD OF VIEW DATA:

WFOV (15mm)				NFOV (330mm)			
HFOV	320x240	480x384	640x512	HFOV	320x240	480x384	640x512
30 microns	32.62			30 microns	1.67		
20 microns	23.10	32.62	40.48	20 microns	1.11	1.66	2.22
15 microns	17.74	25.64	32.62	15 microns	0.83	1.25	1.66