

SWIR continuous zoom – Commercial off the shelf lens

CROCUS

SWIR 50–500mm F/5.0 Continuous zoom Lens
for up to 1280 x 1024 x 10 μ detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Also available with back X2 extender - 100-1000mm F/10
- High performance true SWIR zoom lens
- "ZERO BORESIGHT" design for high accuracy demanding applications

	HFOV for Wide (50mm)			HFOV for Narrow (500mm)		
	640x512	1280x1024	IFOV (mrad)	640x512	1280x1024	IFOV (mrad)
10u	7.3°	14.6°	0.011	0.73°	1.5°	0.0011
15u	11°		0.017	1.1°		0.0017

PARAMETER		VALUE	NOTES
Main	Sub		

🕒 OPTICAL		
Focal Length / F#	50-500mm / F5.0	
Detector (FPA) type / size	Up to 1280 x 1024 x 10 μ	
Working Spectral Range	0.9-1.7 μ	
⚙️ MECHANICAL		
Mechanical Back Focal Length	17.5mm	C-mount compatible
Focus / Zoom mechanism	Motorized	
Focus Range	10m / 100m – Infinity	For WFOV / NFOV accordingly
Through zoom boresight	≤ 0.15mm radius at focal plane	
NFOV boresight retention	≤ 0.075 mm radius at focal plane	
Total Weight	3.7Kg	
Ext. Dimensions \varnothing x length (mm)	117 x 460	
💡 ELECTRICAL		
Power Input	12VDC, 1.0A	
Communication Protocol	RS-422/232 Full Duplex	
🌿 ENVIRONMENTAL		
Operating / Storage Temperature	-25°C to +55°C / -40°C to +75°C	
Shock and Vibrations	Per applicable standard	
Front lens sealing	IP66	IP67 By request

*All values are nominal: to within $\pm 5\%$