

## SWIR continuous zoom – Commercial off the shelf lens

# LOTUS

SWIR 15–300mm F/2.8-4.3 Continuous zoom Lens  
for 640 x 512 x 15μ detectors



### FEATURES / APPLICATIONS / CAPABILITIES

- x20 Zoom ratio
- High-performance, true SWIR zoom lens

	HFOV for Wide (15mm)			HFOV for Narrow (300mm)		
	640x512	1280x1024	IFOV (mrad)	640x512	1280x1024	IFOV (mrad)
10u	24.1°		0.038	1.2°		0.0019
15u	35.5°		0.057	1.8°		0.0028

PARAMETER		VALUE	NOTES
Main	Sub		

#### OPTICAL

Focal Length / F#	15-300mm / F2.8 – 4.3	
Detector (FPA) type / size	Up to 640 x 512 x 15μ	
Working Spectral Range	0.9-1.7μ	

#### MECHANICAL

Mechanical Back Focal Length	17.5mm	C-mount compatible
Focus / Zoom mechanism	Motorized	Motorized Iris diaphragm is included
Focus Range	5m / 100m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight	≤ 0.15mm radius at focal plane	
NFOV boresight retention	≤ 0.075 mm radius at focal plane	
Total Weight	2.5Kg	
Ext. Dimensions ø x length (mm)	95 x 294	

#### ELECTRICAL

Power Input	12VDC, 3.0A	
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 optional by request

\*All values are nominal: to within ±5%