

## SWIR continuous zoom – Commercial off the shelf lens

# CAMELLIA

SWIR 20–140mm F/3.8 Continuous zoom Lens  
for up to 640 x 512 x 15 $\mu$  detectors



### FEATURES / APPLICATIONS / CAPABILITIES

- Compact design with superb performances
- True high performance zoom lens built for SWIR detectors

	HFOV for Wide (20mm)			HFOV for Narrow (140mm)		
	640x512	1280x1024	IFOV (mrad)	640x512	1280x1024	IFOV (mrad)
10u	18.1°		0.028	2.62°		0.0041
15u	27°		0.043	3.93°		0.0061

PARAMETER		VALUE	NOTES
Main	Sub		

#### OPTICAL

Focal Length / F#	20-140mm / F3.8	
Detector (FPA) type / size	Up to 640 x 512 x 15 $\mu$	
Working Spectral Range	0.9-1.7 $\mu$	

#### MECHANICAL

Mechanical Back Focal Length	17.5mm	C-mount compatible
Focus / Zoom mechanism	Motorized	
Focus Range	20m / 50m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight	$\leq$ 0.15mm radius at focal plane	
NFOV boresight retention	$\leq$ 0.045 mm radius at focal plane	
Total Weight	1.75Kg	
Ext. Dimensions $\varnothing$ x length (mm)	77.5 x 186	

#### 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 By request

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

