

SWIR continuous zoom – commercial off the shelf lens

CORAL

SWIR 30 – 300mm Continuous zoom
Lens for 9.6 x 7.68mm detectors



FEATURES / APPLICATIONS / CAPABILITIES

- X10 zoom ratio
- True high performance zoom lens for SWIR detectors

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		30 – 300 mm F/2.85 – 4.5	Continuous zoom lens, Nominal values
Working spectral band		0.9 – 1.7 μ	
Detector (FPA) type / size		9.6 x 7.68 mm	12 μ , 15 μ or 20 μ pitch
FOV (degrees)		Narrow: 1.83°(H) x 1.47° (V) Wide: 18.2°(H) x 14.6° (V)	F/4.5 F/2.85
Optical Average transmission:		> 83%	
Optical Back Focal Length		14 mm	Nominal, to FPA
MECHANICAL			
Mechanical Back Focal Length		17.5	C-Mount standard
Focus / Zoom mechanism		Motorized Motorized Iris diaphragm is included	
LOS shift during focusing		0.15 mm on PFA (10 pixels)	Typical value
Focus / Zoom indication position		Included	Through encoder of motor and opto-switch.
Total Weight		2 kg	
Structure		Open frame, Front element sealed to front element flange.	
External Dimensions		88mm diameter x 267.6mm Length	
ELECTRICAL			
Power Input		12VDC, 1.0A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating Temperature		-20°C to +50°C	
Storage Temperature		-30°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

