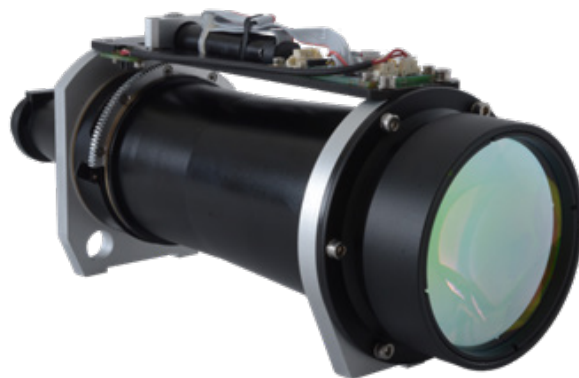


SWIR Mono Focal motorized focus – Commercial off the shelf lens

RP-SW300

SWIR 300mm F/4.5 motorized focus
Lens for 640x512x15 μ / 1280x1024x10 μ
detectors



Features:

- Near diffraction limit performance
- Motorized focus

Optical	
Focal Length / F#	300 mm / F4.5
Detector (FPA) type / size	640 x 512 x 15 μ 9.6 x 7.68 mm up to 1280 x 1024 x 10 μ 12.8 x 10.24 mm
Working Spectral Range	0.9 μ – 1.8 μ
FOV (degrees)	640 x 512 x 15 μ 1.83°(H) x 1.46° (V) 1,280 x 1,024 x 10 μ 2.44°(H) x 1.95° (V)
Average Transmission: > 90%	
Optical Back Focal Length	72 mm
Mechanical	
Mechanical Back Focal Length	C-Mount (Other mounts available, please consult RP)
Focus mechanism	Motorized
Filter holder	Lens includes provision for an optical filter
LOS shift during focusing	<5 pixels radius Typical value
Focus indication position	Included through encoder of motor and opto-switch
Total Weight	~ 800gr
Structure	Open frame, Front element sealed to front flange
Ext. Dimensions ϕ x length (mm)	89 X 272 x 103mm (Please refer to the MICD)
Electrical	
Power Input	12VDC, 0.5 A
Communication Protocol	RS-422/232 Full Duplex Baud rate 19,200, n, 8, 1
Environmental	
Operating Temperature	-25 $^{\circ}$ C to +60 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C to +70 $^{\circ}$ C
Shock and Vibrations	Per applicable standard
Front lens sealing	IP67

*IFOV is indicated in mrad

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