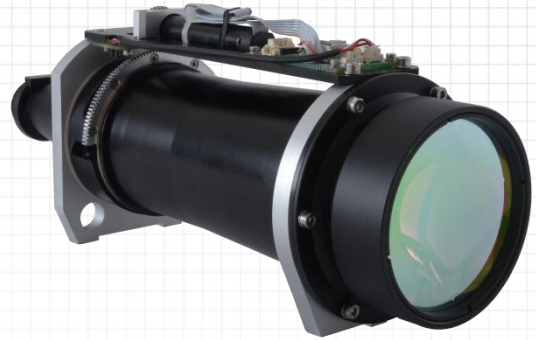


--- SWIR Mono Focal motorized focus – commercial off the shelf lens

RP-SW300M45

SWIR 300mm F/4.5 motorized focus
 Lens for 640x512x15µm / 1,280x1,024x10 µm detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Near diffraction limit performance
- Motorized focus

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL			
Focal Length / F#		300 mm / F4.5	
Working spectral band		0.9 – 1.8µ	
Detector (FPA) type / size		640 x 512 x 15 µm 640 x 512 x 20 µm up to 1,280 x 1,024 x 10 µm	9.6 x 7.68 mm 12.8 x 10.24 mm 12.8 x 10.24 mm
FOV (degrees)			
For 640 x 512 x 15 µm		1.83°(H) x 1.46° (V)	
For 1,280 x 1,024 x 10 µm		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		~ 1.0 kg	
Structure		Open frame, Front element sealed to front flange.	
External Dimensions		~89 mm diameter x 272.2 mm Length (Please refer to the MICD)	
ELECTRICAL			
Power Input		12VDC, 0.5 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating / Storage Temperature		-40°C to +60°C	-40°C to +70°C
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

