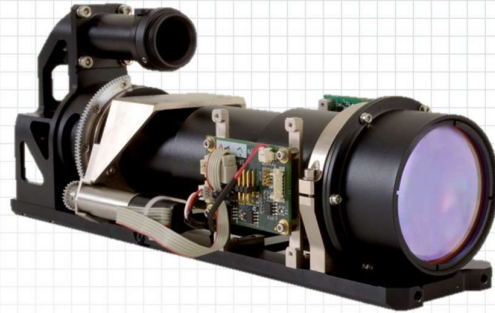


SWIR Mono Focal motorized focus – commercial off the shelf lens

# RP-SW500

SWIR 500mm F/10 motorized focus  
 Lens for 640 x 512 x 15µm / 1,280x1,024x10 µm detectors



## FEATURES / APPLICATIONS / CAPABILITIES

- Near diffraction limit performance
- Motorized focus

PARAMETER		VALUE	NOTES
Main	Sub		
<b>OPTICAL</b>			
<b>Focal Length / F#</b>		500 mm / F10	
<b>Working spectral band</b>		0.9 – 1.8µ	
<b>Detector (FPA) type / size</b>		640 x 512 x 15 µm 1,280 x 1,024 x 10 µm	9.6 x 7.68 mm 12.8 x 10.24 mm
<b>FOV (degrees)</b>			
For 640 x 512 x 15 µm		1.1°(H) x 0.88° (V)	
For 1,280 x 1,024 x 10 µm		1.47°(H) x 1.17° (V)	
<b>Average transmission: &gt; 92%</b>			
<b>Optical Back Focal Length</b>		125 mm	
<b>MECHANICAL</b>			
<b>Mechanical Back Focal Length</b>		C-Mount	
<b>Focus mechanism</b>		Motorized	
<b>Iris mechanism</b>		Default: No Iris	Motorized Iris available: please consult RP for details.
<b>Filter holder</b>		Lens includes provision for an optical filter	
<b>LOS shift during focusing</b>		<10 pixels	Typical value
<b>Focus indication position</b>		Included	Through encoder of motor and opto-switch.
<b>Total Weight</b>		~ 1.4 kg	
<b>Structure</b>		Open frame, Front element sealed to front flange.	
<b>External Dimensions</b>		~115 mm diameter x 470 mm Length (Please refer to the MICD)	
<b>ELECTRICAL</b>			
<b>Power Input</b>		12VDC, 0.5 A	Nominal
<b>Communication Protocol</b>		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
<b>ENVIRONMENTAL</b>			
<b>Operating/ Storage Temperature</b>		-30°C to +60°C	-40°C to +70°C
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Front lens sealing</b>		IP67	By request

