- LWIR mono-focal for 17u detectors - commercial off the shelf lens

RP-9014M

LWIR 90 mm F/1.4 mono-focal Lens for High 640 x 480 x 17u detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Very High performances lens
- Cost effective high quality lens

	Sive high quality lens		-
PARAM	ETER	VALUE	NOTES
Main	Sub		
OPT	ICAL		
Focal Length / F#		90mm F/1.4	Nominal values.
Detector (FPA) type / size		640 x 480 x 17 microns	
		384 x 288 x 25 microns	
FOV (degrees)		6.9° (H) x 5.2° (V) 6.1° (H) x 4.6° (V)	For detector size of 640 x 480 x 17 μ and detector size of 384 x 288 x 25 x 15 μ
Optical	Coatings	I	
	All internal surfaces	High efficiency AR coating	Average transmission: 94%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		120 mm	From front vertex of front element to FPA
Optical Back Focal Length		Approx 23 mm	
Ø MECHANICAL			
Mechanical Back Focal Length		19.2mm (standard mount)	Other mounts to comply with different detectors are possible – Please consult RP.
Focus mechanism		Manual	Optional: Motorized – model RP-9014MT
Focus indication position		Included	For motorized model: Thru encoder of motor and opto-switch.
Total Weight		~ 300 grams	Preliminary Value
Structure		Sealed lens.	Motorized model: open frame with front element sealed to front flange of lens.
External Dimensions		72.5 mm diameter x 125mm Length (Please refer to MICD for details)	
ELECTRICAL (For Motorized model RP-9014MT			
Power Input		12VDC, 0.3 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Default is RS422; Baud rate 19,200, n, 8, 1
Operating/Storage Temperature		-30 °C to +65°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Lens sealing lever		IP65	Applicable for Manual model
Front lens sealing		IP67	Applicable for motorized model

