

-- MWIR mono-focal for HD detectors – commercial off the shelf lens

MIRABLE

MWIR 300 mm F/3.0 mono-focal Lens for High Definition detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Super High performances lens
- Supports also HD F/4 detectors

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		300mm F/3.0	Nominal values. Supports also F/4 detectors. Cold stop height at 28.0 mm – nominal value.
Detector (FPA) type / size		1,920 x 1,536 x 10µ 1,280 x 1,024 x 15µ	
FOV (degrees)		3.67°(H) x 2.93° (V) 1.83°(H) x 1.47° (V)	For detector size of 1,920 x 1,536 x 10 µ and detector size of 1,280 x 1,024 x 15µ
Optical Coatings			
	All internal surfaces	High efficiency AR coating	Average transmission: 92%
	Front surface	High durability AR coating	DLC is available upon request
Optical Total lens track		250 mm	Preliminary value
Optical Back Focal Length		Approx 16 mm	
MECHANICAL			
Mechanical Back Focal Length		TBD	
Focus mechanism		Motorized	
LOS shift during focusing		0.05 mm on PFA	Typical value
Focus indication position		Included	Thru encoder of motor and opto-switch.
Total Weight		~ 1.5Kg	Preliminary Value
Structure		Open frame	
External Dimensions		124mm diameter x 225mm Length	
ELECTRICAL			
Power Input		12VDC, 0.5 A	Nominal
Communication Protocol		RS-422/232 Full Duplex	Default is RS422; Baud rate 19,200, n, 8, 1
ENVIRONMENTAL			
Operating/Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 by request

