

MWIR Continuous zoom – Commercial off the shelf lens

PLUTO SERIES

MWIR 20 - 300mm, 40 – 600mm F/3.4-4.0

Continuous zoom Lens for 1280 x 1024 x 10μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Supports HD 10μ detectors and sensors with up to 16.4mm diagonal
- 180° double Folded, Compact & light weight design
- High accuracy "ZERO BORESIGHT" design for maximum accuracy
- Rugged and robust built for harsh environmental conditions

	HFOV for Wide				HFOV for Narrow			
	20mm		40mm		300mm		600mm	
	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024
10u	18.1°	35.4°	9.15°	18.1°	1.22°	2.45°	0.61°	1.22°
12u	21.7°		10.9°		1.5°		0.73°	
15u	26.9°		13.6°		1.83°		0.92°	

PARAMETER		VALUE
Main	Sub	

OPTICAL		PLUTO300	PLUTO600
Focal Length / F#		20-300mm F3.4	40-600mm F/4.0
Detector (FPA) type / size		Up to 1280 x 1024 x 10μ	
Working Spectral Range		3 – 5μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	HDAR coating (note: DLC is available upon request)	DLC coating (note: HDAR is available upon request)
CSH		19-22mm	
MECHANICAL			
Focus / Zoom mechanism		Motorized	
Through zoom boresight		≤0.075mm radius at focal plane	
NFOV boresight retention		≤0.03mm radius at focal plane	
Focus Range		25m - Infinity	150m - Infinity
Total Weight		TBD	
Ext. Dimensions L x W x H (mm)		159 x 110 x 159	251 x 173 x 225.5
ELECTRICAL			
Power Input		12VDC, 1.0 A	
Communication Protocol		RS-422/232 Full Duplex	
ENVIRONMENTAL			
Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66 (please note: IP67 by request)	

*All values are nominal: to within ±5%

