- MWIR Continuous zoom - commercial off the shelf lens

MERCURY Line O,D,I

High Accuracy - Continuous zoom Lens with DSP controller

FEATURES / APPLICATIONS / CAPABILITIES

- Special lens for low boresight and retention error
- Rugged and robust built for harsh environmental conditions
- Focus is maintained throughout the entire zoom range, with fast zoom and focus response
- Available with different types of front Beam Expander (x1.5, x2, x2.5)



PARAMETER	Mercury O	Mercury D	Mercury I	NOTES
OPTICAL OPTICAL				
Focal Length / F#	15-330mm F/4	18-430mm F/5.5	18-330mm F/4	Nominal values.
Cooled Detector - Size /	Up to 16.4mm	9.6 x 7.68mm /	9.6 x 7.68mm /	
Cold Shield Height (CSH)	diagonal	19 -22mm	19-22mm	
Spectral Range	3 – 5 µ			
FOV (degrees)	35.7°x 29°	29.8° x 24.1°	29.8°x 24.1°	
Wide / Narrow H x V	1.7° x 1.4°	1.28° x 1.02°	1.7°x1.4°	
Optical Coatings				
All internal surfaces	High Efficiency AR coating			Average transmission: 90%
Front surface	High Durability AR coating			DLC upon request
Optical Total Lens Track	138 mm	130 mm	153 mm	Nominal
Optical Back Focal Length	~ 26 mm	24.7 mm	~ 34 mm	Nominal
Boresight Error	Less than 3 Pixels Radii			
MECHANICAL				
Mechanical BFL	~ 15 mm	22 mm	~ 30 mm	Nominal for standard MICD
Zoom mechanism	Motorized			2 motors
Focus Range	5m – Infinity			
Total Weight	850 grams	930 grams	900 grams	Nominal
External Dimensions Diameter x Length (mm)	96 x 123	96 x 125	96 x 128	Please refer to MICD for details
₽ ELECTRICAL				
Power Input	12VDC, 1.0 A			Nominal
Communication Protocol	RS-422/232 Full Duplex			Baud rate 19,200, n, 8, 1
> ENVIRONMENTAL				
Operating/Storage	-30°C to +70°C/ -40°C to +70°C			
Shock and Vibrations	Per applicable standard			
Front lens sealing	IP66 By request			

