

MWIR Continuous zoom – Commercial off the shelf lens

GALAXY x BE

MWIR 30 – 450mm, 36 – 540mm, 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
- Highest resolution performance over entire zoom range
- Rugged and robust built for harsh environmental conditions

	HFOV for Wide						HFOV for Narrow					
	30mm		36mm		40mm		450mm		540mm		600mm	
	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024
10u	12.1°	24°	10.1°	20.1°	9.15°	18.1°	0.81°	1.63°	0.7°	1.4°	0.61°	1.22°
12u	14.5°		12.1°		10.9°		1°		0.81°		0.73°	
15u	18.1°		15.1°		13.6°		1.22°		1.02°		0.92°	

PARAMETER		VALUE
Main	Sub	
OPTICAL		
Focal Length / F#		GALAXY450: 30-450mm F3.4 GALAXY540: 36-540mm F/3.4 GALAXY600: 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	DLC coating (please note: HDAR is available upon request)
CSH		19-22mm
MECHANICAL		
Focus / Zoom mechanism		Motorized
Through zoom boresight		≤0.15 mm radius at the focal plane
NFOV boresight retention		≤0.045 mm radius at the focal plane
Focus Range		25m - Infinity 50m - Infinity 150m - Infinity
Total Weight		~2.7 Kg. ~3.5Kg ~3.5 Kg.
Ext. Dimensions L x W x H (mm)		245 x 163 x 175 256 x 196 x 196 253 x 170 x 195
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		IP67

*All values are nominal: to within ±5%

