

MWIR Continuous zoom – Commercial off the shelf lens

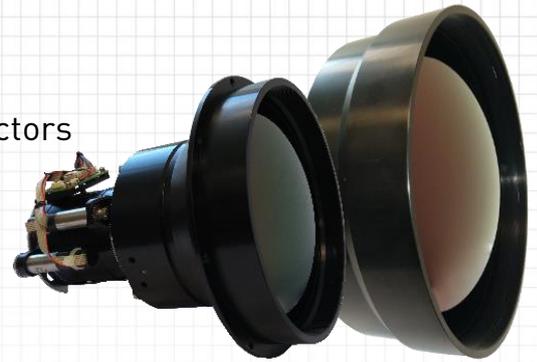
IRIS-BB x BE

MWIR 25-460mm, 30-660mm F/3.0-4.0

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

FEATURES / APPLICATIONS / CAPABILITIES

- Supports HD 10 μ detectors and sensors with up to 16.4mm diagonal
- Available with 19-22mm or 28mm cold shield distances
- Rugged design to fit various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response



	HFOV for Wide				HFOV for Narrow			
	25mm		30mm		460mm		660mm	
	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024	640x512	1280x1024
10u	14.5°	28.7°	12.1°	24.1°	0.8°	1.6°	0.56°	1.11°
12u	17.4°		14.5°		0.96°		0.7°	
15u	21.7°		18.1°		1.2°		0.83°	

PARAMETER		VALUE
Main	Sub	

OPTICAL		
LENS		IRIS-BB460
Focal Length / F#		25-460mm F/3.0
Detector (FPA) type / size		1280 x 1024 x 10 μ
Working Spectral Range		3 – 5 μ
Optical Coatings	Internal surfaces	High efficiency AR coating
	Front surface	DLC
CSH		19-22mm or 28mm
MECHANICAL		
Focus / Zoom mechanism		Motorized
Through zoom boresight		\leq 0.15 mm radius at the focal plane
NFOV boresight retention		\leq 0.075 mm radius at the focal plane
Focus Range		30m - Infinity
Total Weight		2.4Kg
Ext. Dimensions ϕ x length (mm)		135 x 192
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 \pm 5%

