

MWIR HD Continuous zoom – commercial off the shelf lens

IRIS-BB330 & IRIS-BB660

18 – 330mm & 60 – 660mm MWIR F/3-4
Continuous zoom Lens for 10 μ HD sensors



FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom range
- Very high focal length zoom lens with **X18 optical zoom**
- Rugged design to comply with various applications
- Focus is maintained throughout the entire zoom range, with extremely fast zoom and focus response

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAL		IRIS-BB330	IRIS-BB660
Focal Length / F#		18-330mm F/3-4 Until 250mm F/3	60-660mm F/3-4 Until 500mm F/3
Detector (FPA) type / size		HD 1,280 x 1,024 x 10 μ m (12.8 x 10.24 mm) with 28mm CSH	
Working Spectral Range		3 – 5 μ	
FOV for IRIS-BB330 18-330mm		Wide: 40.9°(H) x 32.8°(V) Narrow: 2.3°(H) x 1.8°(V)	Wide: 20°(H) x 16.4°(V) Narrow: 1.15°(H) x 0.9°(V)
For detector size of 12.8 x 10.24mm All values are nominal: to within +/- 5% accuracy			
Optical Coatings	Internal surfaces	High efficiency AR coating	High efficiency AR coating
	Front surface	High Durability AR	DLC
Optical Total lens track		153mm	275mm
Cold Stop distance		28 \pm 1mm	
Optical Back Focal Length		36 mm Nominal	
MECHANICAL			
Mechanical Back Focal Length		32 Nominal for standard MICD.	
Zoom, Focus mechanism		Motorized	
Focus Range		25 – Infinity	50 – Infinity
Total Weight (Nominal)		950gr	3kg
Dimensions (\varnothing x Length)		95 x 125mm	200 x 220mm
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 Temperature		-30°C to +50°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	