

MWIR HD Continuous zoom – commercial off the shelf lens

IRIS-BB330 & IRIS-BB660





18 – 330mm & 40 – 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
- Available with different types of front Beam Expander (x1.5, x2, x2.5)



PARAMETER		VALUE	NOTES
Main	Sub		
 OPTICAL		IRIS-BB330	IRIS-BB660
Focal Length / F#		18-330mm F/3-4 Until 245mm F/3.0, until 280 F/3.4, until 300 F/3.6, until 330mm F/4.0	40-660mm F/3-4 Until 490mm F/3.0, until 560 F/3.4, until 600 F/3.6, until 660mm F/4.0
Detector (FPA) type / size		HD 1,280 x 1,024 x 10μ (12.8 x 10.24mm) with 19.4 or 28mm CSH	
Working Spectral Range		3 – 5 μ	
FOV		Wide: 40.9°(H) x 32.8°(V) Narrow: 2.3°(H) x 1.8°(V)	Wide: 19°(H) x 14°(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		For <i>IRIS-BB/19</i> : 19.4 ± 1mm	For <i>IRIS-BB/28</i> : 28 ± 1mm
Optical Back Focal Length		36 mm Nominal	
 MECHANICAL			
Mechanical Back Focal Length		22-32mm Nominal, refer to MICD.	
Zoom, Focus mechanism		Motorized	
Focus Range		25 – Infinity	50 – Infinity
Total Weight (Nominal)		950gr	3kg
Dimensions (Ø 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 By request	IP66 By default