

MWIR HD Continuous zoom – commercial off the shelf lens

# IRIS-BB330 & IRIS-BB660

**18 – 330mm & 36 – 660mm MWIR F/3-4**  
**Continuous zoom Lens for 10μ 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		
<b>OPTICAL</b>		<b>IRIS-BB330</b>	<b>IRIS-BB660</b>
<b>Focal Length / F#</b>		18-330mm F/3-4 Until 250mm F/3	36-660mm F/3-4 Until 500mm F/3
<b>Detector (FPA) type / size</b>		HD 1,280 x 1,024 x 10 μm (12.8 x 10.24 mm) with 28mm CSH	
<b>Working Spectral Range</b>		3 – 5 μ	
<b>FOV for IRIS-BB330</b> 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)
<b>For detector size of 12.8 x 10.24mm</b> <b>All values are nominal: to within +/- 5% accuracy</b>			
<b>Optical Coatings</b>	<b>Internal surfaces</b>	High efficiency AR coating	High efficiency AR coating
	<b>Front surface</b>	High Durability AR	DLC
<b>Optical Total lens track</b>		153mm	275mm
<b>Cold Stop distance</b>		28 ± 1mm	
<b>Optical Back Focal Length</b>		36 mm Nominal	
<b>MECHANICAL</b>			
<b>Mechanical Back Focal Length</b>		32 Nominal for standard MICD.	
<b>Zoom, Focus mechanism</b>		Motorized	
<b>Focus Range</b>		25 – Infinity	50 – Infinity
<b>Total Weight (Nominal)</b>		950gr	3kg
<b>Dimensions (Ø x Length)</b>		95 x 125mm	200 x 220mm
<b>ELECTRICAL</b>			
<b>Power Input</b>		12VDC, 1.0 A	Nominal
<b>Communication Protocol</b>		RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1
<b>ENVIRONMENTAL</b>			
<b>Operating/Storage Temperature</b>		-30°C to +50°C / -40°C to +70°C	
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Front lens sealing</b>		IP66	