- MWIR Continuous zoom - Commercial off the shelf lens

IRIS-BB

MWIR 18-330mm F/3.0-4.0 Continuous zoom Lens for 1280 x 1024 x 10 μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Supports HD 10µ detectors and sensors with up to 16.4mm diagonal
- Available with 19-22mm or 28mm cold shield distances
- Rugged design to fit various applications
- Available with different types of front expanders (x1.5, x2)



	HFOV for Wide (18mm)			HFOV for Narrow (330mm)				
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
10u	20.1°	31.7°	39.1°	0.032	1.11°	1.8°	2.22	0.0017
15u	29.8°			0.048	1.7°			0.0026

PARAMET	ER	VALUE	NOTES		
Main	Sub				
@ ODTIOA					
© OPTICA		10, 200, 5/2.0 / 2			
Focal Length / F#		18 - 330 mm F/3.0-4.0			
Detector (FPA) type / size		Up to 1280 x 1024 x 10μ			
Working Spectral Range		3.6 – 4.8µ			
Optical	All internal surfaces	High efficiency AR coating			
Coatings	Front surface	High durability AR coating	DLC is available upon request		
CSH		19-22mm or 28mm			
Ф МЕСНА	NICAL				
Focus / Zoom mechanism		Motorized			
Focus Range		50m / 100m – Infinity	For WOFV / NFOV accordingly		
Through zoom boresight		<0.15 mm radius at the focal plane			
NFOV boresight retention		<0.09 mm radius at the focal plane			
Total Weight		850gr			
Ext. Dimensions ø x length (mm)		93.46 x 129.4			
P ELECT	RICAL				
Power Input		12VDC, 1.0 A			
Communication Protocol		RS-422/232 Full Duplex			
6 ENVIRO	NMENTAL				
Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C			
Shock and Vibrations		Per applicable standard			
Front lens sealing		IP66	IP67 By request		
A 11 1	nominal, to within 15%				

^{*}All values are nominal: to within ±5%

