

# 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 $\mu$  cooled detectors



### Features:

- Supports HD 10 $\mu$  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 (330)				
	640x512		1280x1024	IFOV	640x512		1280x1024	IFOV
10u			40.9°	0.55			2.15	0.03
15u	30.7°			0.83	1.7°			0.046

### Optical

**Focal Length / F#** 18 - 330 mm F/3.0-4.0

**Detector (FPA) type / size** Up to 1280 x 1024 x 10 $\mu$

**Working Spectral Range** 3.6 – 4.8 $\mu$

<b>Optical Coatings</b>	<b>Internal surfaces</b>	High efficiency AR coating
	<b>Front surface</b>	High durability AR coating / DLC is available upon request

**CSH** 19-22mm or 28mm

### Mechanical

**Focus / Zoom mechanism** Motorized

**Through zoom boresight**  $\leq$ 0.15mm radius at focal plane

**NFOV boresight retention**  $\leq$ 0.09mm radius at focal plane

**Focus Range** 50m / 100m – Infinity / For WOFV / NFOV accordingly

**Total Weight** 850gr

**Ext. Dimensions**  $\phi$  x length (mm) 93.46 x 129.4

### Electrical

**Power Input** 12VDC, 1.0 A

**Communication Protocol** RS-422/232 Full Duplex

### Environmental

**Operating / Storage Temperature** -25 $\circ$ C TO +55 $\circ$ C / -40 $\circ$ C TO +70 $\circ$ C

**Shock and Vibrations** Per applicable standard

**Front lens sealing** IP66 / IP67 by Request

\*IFOV is indicated in mrad

\*\*All values are nominal: to within  $\pm$ 5%