. MWIR Continuous zoom - Commercial off the shelf lens

DRAGON1200

MWIR 70-1200mm F/4.0 Continuous zoom Lens for 1920 x 1536 x 10μ cooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Longest range thermal zoom lens for FHD MWIR
- X17 optical zoom lens for FHD 10µ sensors

640x512

5.2°

6.3°

7.8°

8.4°

10u

12u

15u

16u

- Focus is maintained through the entire zoom range providing extremely fast zoom and focus response

1280x1024

10.4°

12.5°

15.6°

HFOV for Wide (70mm)

- Actively Athermalized to maintain focus to infinity through temperature changes

1920 x 1536

15.6°



0.0057

0.0072

0.0076

PARAMETER		VALUE	NOTES
Main	Sub		
OPTICAI	L		
Focal Length / F#		70 - 1200 mm / F 4.0	
Detector (FPA) type / size		Up to 1920 x 1536 x 10µ	
Working Spectral Range		3.6 – 4.8µ	
Optical Coatings	Internal surfaces	High Efficiency AR coating	
	Front surface	DLC	HDAR is available upon request
CSH		28mm	
Ф МЕСНАІ	NICAL		
Focus / Zoom mechanism		Motorized	
Focus Range		30m / 250m – Infinity	For WOFV / NFOV accordingly
Through zoom boresight		< 0.15mm radius at the focal plane	
NFOV boresight retention		< 0.045 mm radius at the focal plane	
Total Weight		13.5Kg	
Ext. Dimensions ø x length (mm)		335 x 451	
P ELECTR	RICAL		
Power Input		12VDC, 3.0A	
Communication Protocol		RS-422/232 Full Duplex	
🌎 ENVIRO	NMENTAL		
Operating / Storage Temperature		-25°C to +55°C / -40°C to +70°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP67	

0.37°

0.46°

0.5°

0.0098

0.012

0.013

0.7°

0.9°

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

