

MWIR Continuous zoom – Commercial off the shelf lens

TITAN

LWIR 15-75mm F/1.2 Continuous zoom Lens
for 640 x 480 x 17 μ uncooled detectors

Features:

- High sensitivity (LOW F#) 1.2
- Rugged design for harsh environments
- Supports detector types with up to 13.6mm diagonal



HFOV for Wide (15mm)			HFOV for Narrow (100mm)	
	640x480	IFOV*	640x480	IFOV*
12u	29.8°	0.8	5.8°	0.16
17u	42.9°	1.16	8.1°	0.22

Optical	
Focal Length / F#	15-75mm / F1.2
Detector (FPA) type / size	Up to 640 x 480 x 17 μ
Working Spectral Range	8-14 μ
Optical Coating	All internal surfaces
	High efficiency AR
	Front surface
	High Durability AR
Mechanical	
Mechanical Back Focal Length	8.5 mm
Focus / Zoom mechanism	Motorized
Focus range	5m / 20m – Infinity
Through zoom boresight	≤ 0.15 mm radius at focal plane
NFOV boresight retention	≤ 0.045 mm radius at focal plane
Total Weight	0.46Kg
Ext. Dimensions ϕ x length (mm)	75 x 90
Electrical	
Power Input	12VDC, 1.0A
Communication Protocol	RS-422/232 Full Duplex
Environmental	
Operating Temperature	-25°C to +60°C
Storage Temperature	-50°C to +75°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 $\pm 5\%$