

MWIR Continuous zoom – Commercial off the shelf lens

Colibri

MWIR 19-300mm F/2.8-3.75 Continuous zoom Lens
for 1280 x 1024 x 8μ cooled detectors

Features:

- Compact lens with low F#
- Great MTF performance
- Actively Athermalized to maintain focus to infinity through temperature changes



HFOV for Wide 18mm)		HFOV for Narrow (400mm)	
1280x1024	IFOV (mrad)	1280x1024	IFOV (mrad)
8u	30°	0.41	2°

Optical	
Focal Length / F#	19-300mm F/2.8-3.75
Detector (FPA) type / size	Up to 1280 x 1024 x 8μ
Working Spectral Range	3 – 5μ
Optical Coating - All internal surfaces	High efficiency AR coating
Optical Coating - Front surface	Hi durability (HD) AR coating / DLC coating is optional on request
CSH	19-22mm
Mechanical	
Focus / Zoom mechanism	Motorized
Focus range	10m / 30m – Infinity for WOFV / NFOV accordingly
Through zoom boresight	≤0.15mm radius at focal plane
NFOV boresight retention	≤0.045mm radius at focal plane
Total Weight	0.55Kg
Ext. Dimensions ø x length (mm)	91 x 101 mm
Electrical	
Power Input	12VDC, 1.0A
Communication Protocol	RS-422/232 Full Duplex
Environmental	
Operating Temperature	-25°C to +55°C
Storage Temperature	-40°C to +70°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 ±5%