

LWIR Dual FOV – Commercial off the shelf lens

GALIL

LWIR 33/99 mm F1.15 / 1.25 Dual FOV Lens
for 1280 x 1024 x 12 μ uncooled detector



FEATURES / APPLICATIONS / CAPABILITIES

- Excellent performance over entire FOV with ultra-fast changing mechanism
- Supports multiple detectors types with up to 20.49mm diagonal

	HFOV for Wide (33mm)				HFOV for Narrow (99mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	13.3°	21.3°	26.6°	0.021	4.44°	7.1°	8.87°	0.0069
17u	19°	29.55°		0.029	6.29°	10.05°		0.0098

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL

Focal Length / F#		33/99 mm F1.15/1.25	
Detector (FPA) type / size		Up to 1024 x 768 x 17 μ	
Working Spectral Range		8-14 μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request

MECHANICAL

Mechanical Back Focal Length		11mm	
Focus / Zoom mechanism		Motorized	With single motor
NFOV boresight retention		≤ 0.045 mm radius at the focal	
Total Weight		725gr	Nominal, excluding adaptor for camera
Ext. Dimensions \varnothing x length (mm)		122 x 112	

ELECTRICAL

Power Input		12VDC, 1.0A	Fast switching time model: 12VDC, 3.0A
Communication Protocol		RS-422/232 Full Duplex	

ENVIRONMENTAL

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

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

