

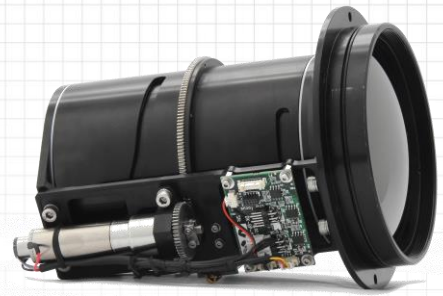
LWIR Dual FOV – Commercial off the shelf lens

CATTY XGA

LWIR 45/135 mm F1.32 / 1.4 Dual FOV Lens
for 1024 x 768 x 17 μ uncooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- XGA resolution lens for various demanding payloads
- Optimized for relatively short total track and low weight
- Supports detector with up to 21.7mm diagonal



	HFOV for Wide (45mm)				HFOV for Narrow (135mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	9.75°	15.5°	19.3°	0.015	3.3°	5.21°	6.51°	0.0051
17u	13.7°	21.8°		0.022	4.62°	7.4°		0.0072

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
Focal Length / F#		45/135 mm F1.32 / 1.4	
Detector (FPA) type/size		Up to 1024 x 768 x 17 μ	
Working Spectral Range		8-12 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		8mm	Request MICD for details
Focus / Zoom mechanism		Motorized	With single motor
NFOV boresight retention		\leq 0.045mm radius at the focal plane	
Total Weight		1.5Kg	
Ext. Dimensions ϕ x length (mm)		130 x 168	
ELECTRICAL			
Power Input		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%

