

LWIR Dual FOV – Commercial off the shelf lens

# CATTY XGA 200

LWIR 65/200 mm F1.32 / 1.4 Dual FOV Lens  
for 1024 x 768 x 17μ uncooled detectors

AVAILABLE  
SOON

## 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 (65mm)				HFOV for Narrow (200mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	6.76°	10.8°	13.48°	0.18	2.2°	3.52°	4.4°	0.06
17u	9.57°	15.25°		0.26	3.12°	5°		0.085

PARAMETER		VALUE	NOTES
Main	Sub		

OPTICAL			
<b>Focal Length / F#</b>		65/200mm F1.32 / 1.4	
<b>Detector (FPA) type/size</b>		Up to 1024 x 768 x 17μ	
<b>Working Spectral Range</b>		8-12μ	
<b>Optical Coatings</b>	<b>All internal surfaces</b>	High efficiency AR coating	
	<b>Front surface</b>	DLC coating HDAR coating is available upon request	
MECHANICAL			
<b>Mechanical Back Focal Length</b>		8mm Request MICD for details	
<b>Focus / Zoom mechanism</b>		Motorized With single motor	
<b>NFOV boresight retention</b>		≤0.045mm radius at the focal	
<b>Total Weight</b>		3.76Kg	
<b>Ext. Dimensions ø x length (mm)</b>		170 x 217	
ELECTRICAL			
<b>Power Input</b>		12VDC, 3.0A	
<b>Communication Protocol</b>		RS-422/232 Full Duplex	
ENVIRONMENTAL			
<b>Operating / Storage Temperature</b>		-25°C to +55°C / -40°C to +70°C	
<b>Shock and Vibrations</b>		Per applicable standard	
<b>Front lens Sealing</b>		IP66 IP67 By request	

\*All values are nominal: to within ±5%

