- LWIR Dual FOV - Commercial off the shelf lens

SHARK

LWIR 85/190mm F/1.2 Dual FOV Lens for $640 \times 480 \times 17 \mu$ uncooled detectors

FEATURES / APPLICATIONS / CAPABILITIES

- Discrete zoom lens for medium range, demanding applications
- Excellent MTF performance
- High sensitivity, Low F#



	HF0V fo		HFOV for Narrow (190mm)					
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	5.17°			0.0081	2.32°			0.0036
17u	7.32°			0.0114	3.28°			0.0051

PARAMETER		VALUE	NOTES				
Main Sub							
© OPTICAL							
Focal Leng		85/190mm F/1.2					
Detector (F	FPA) type / size	Up to 640 x 480 x 17µ					
Working Spectral Range		8-12µ					
Optical	All internal surfaces	High efficiency AR coating					
Coatings	Front surface	High durability AR coating	DLC is available upon request				
☼ MECHANICAL							
Focus / Zoom mechanism		Motorized					
Focus rang	ge	30m / 100m – Infinity	For WOFV / NFOV accordingly				
NFOV boresight retention		<0.045mm radius at the focal plane					
Total Weig	ht	2.3Kg					
Ext. Dimensions ø x length (mm)		170 x 232					
■ ELECTRICAL							
Power Inp	ut	12VDC, 3.0A					
Communic	cation 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				
* ^ !! !	are persinal, to within ±5%						

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

