-- LWIR Continuous zoom – Commercial off the shelf lens

## •TOPAZc

LWIR 18–60mm F/1.4 Continuous zoom Lens for 640 x 480 x 17µ uncooled detectors

## FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact continuous zoom lens, fits 4" gimbals
- Very low boresight errors for maximum accuracy
- Unique design and shape, for airborne payloads



	HFOV	for Wide (1	8mm)		HFOV for Narrow (60mm)			
	640x480	1024x768	1280x1024	IFOV (mrad)	640x480	1024x768	1280x1024	IFOV (mrad)
12u	24°			0.038	7.32°			0.011
17u	33.6°			0.054	10.4°			0.016

PARAME Main	rer Sub	VALUE	NOTES			
OPTIC/	ЧL					
Focal Leng	gth / F#	18-60 mm / F1.4				
Detector (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			
<b>O</b> MECHANICAL						
Mechanical Back Focal Length		5.92mm				
Focus / Zoom mechanism		Motorized				
Focus range		5m / 10m – Infinity	For WOFV / NFOV accordingly			
Through zoom boresight		<0.045mm radius at focal plane				
NFOV boresight retention		<0.03mm radius at focal plane				
Total Weig	ht	220gr				
Ext. Dimer	<b>isions</b> ø x length (mm)	70 x 76				
Power Inp	ut	12VDC, 1.0A				
Communic	ation Protocol	RS-422/232 Full Duplex				
	ONMENTAL					
Operating ,	/ Storage Temperature	-20°C to +55°C / -40°C to +70°C				
Shock and	Vibrations	Per applicable standard				
Front lens	sealing	IP66	IP67 By request			
JUA 11 1	re persinal, to within 15%					

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

