

--- LWIR Continuous zoom – commercial off the shelf lens

# TOPAZc

Ultra Compact 18 – 60 mm LWIR Continuous zoom Lens



## FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact continuous zoom lens, Complies with 4" payloads
- Suitable for various applications
- High sensitivity (LOW F#) as low as 1.4
- Rugged design for harsh environments

PARAMETER		VALUE	NOTES
Main	Sub		

### 🔍 OPTICAL

<b>Focal Length / F#</b>	18-60 mm / F1.4	Nominal values.
<b>Detector (FPA) type / size</b>	640 x 480 pixels x 17 microns	Effective detector size of 10.88 x 8.16 mm
	384 x 288 pixels x 25 microns	Effective detector size of 9.6 x 7.2 mm
<b>FOV (degrees)</b>	Wide: 33.6°(H) x 25.5° (V) Narrow: 10.3° (H) x 7.8° (V)	640 x 480 pixels x 17 microns
	Wide: 29.9°(H) x 22.6° (V) Narrow: 9.2° (H) x 6.9° (V)	384 x 288 pixels x 25 microns
<b>Optical Coatings</b>		
	<b>All internal surfaces</b>	High efficiency AR coating
	<b>Front surface</b>	Hi durability AR coating
		Average transmission: 92%
		DLC is available upon request
<b>Optical Total lens track</b>	69 mm	Nominal from 1 <sup>st</sup> surface vertex to detector FPA

### ⚙️ MECHANICAL

<b>Mechanical Back Focal Length</b>	5.77 mm	Nominal
<b>Zoom mechanism/ Focus</b>	Motorized	5m - Infinity
<b>Total Weight</b>	258 gram	Nominal
<b>External Dimensions</b>	Max Diameter: 70 mm; Length: 60 mm, Please refer to MICD	

### 💡 ELECTRICAL

<b>Power Input</b>	12VDC, 1.0A	Nominal
<b>Communication Protocol</b>	RS-422/232 Full Duplex	Baud rate 19,200, n, 8, 1

### 🌍 ENVIRONMENTAL

<b>Operating/Storage Temperature</b>	-30°C to +55°C / -40°C to +70°C	
<b>Shock and Vibrations</b>	Per applicable standard	
<b>Front lens sealing</b>	IP67	By request

