

# ViewNyx

## Athermalized fixed focus

### o Molded LWIR Lens FL 4.3 mm f/1.4 (Model VN4.314)

#### Introduction



- **Precision molded LWIR lenses using chalcogenide glass**  
High-volume, cost effective manufacturing  
Optimized for the 8~12 um wavelength range
- **High performance LWIR lenses**  
FL 4.3 mm, f/1.4 lens  
Use of diffractive-aspheric lens  
Ultralight, wide-angle, passively athermalized LWIR lens
- **Applications and capabilities**  
Thermal imaging and thermography

#### Optical Specifications

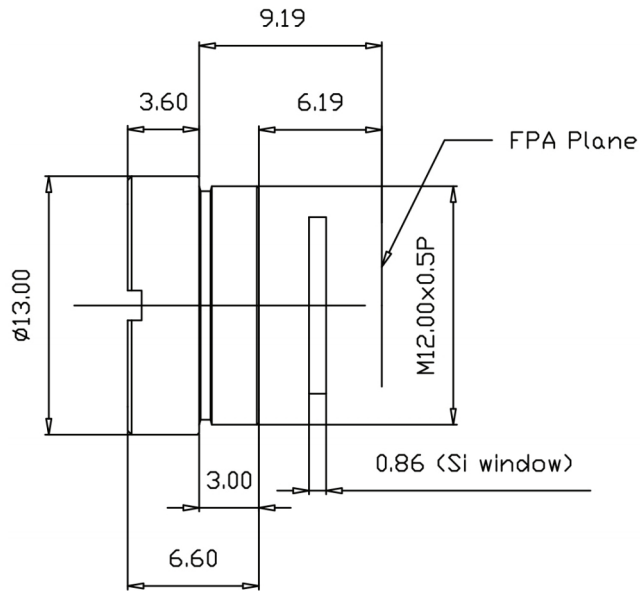
- **Focal length** 4.3 mm
- **Aperture-based f-number** f/1.39
- **Waveband** 8~12 um
- **Focus range** 0.1 m to infinity
- **Transmittance** > 95 % (AR coating)  
> 90 % (DLC coating)
- **Field of view (FOV)**

Sensor Array	Pixel size (um)	FOV (deg)		
		H	V	D
<b>384 X 288</b>	17	<b>90</b>	<b>65.2</b>	<b>120</b>
	12	61.1	45.4	78
<b>320 X 240</b>	17	73.1	53.8	94.5
	12	50.5	37.7	63.8
<b>160 X 120</b>	25	52.7	39.3	66.7
	17	35.6	26.7	44.6
<b>80 X 60</b>	35	36.7	27.5	46

Note : Each lens is optimized for a specific detector format represented by bold values. This table shows values for other compatible detector formats with non-optimal performance.

### Mechanical Specifications

- Lens mount Threaded (M12 x P0.5)
- Weight 2.3 g
- Sealing IP67 / on front
- Dimension



### Environmental Specifications

- Operating temperature  $-35 \sim +60 \text{ }^{\circ}\text{C}$
- Storage temperature  $-55 \sim +85 \text{ }^{\circ}\text{C}$