

# ViewNyx

## Athermalized fixed focus

### o Molded LWIR Lens FL 15 mm f/1.0 (Model VN1510)

#### Introduction



- **Precision molded LWIR lenses using chalcogenide glass**  
High-volume, cost effective manufacturing  
Optimized for the 8~12  $\mu\text{m}$  wavelength range
- **High performance LWIR lenses**  
FL 15 mm, f/1.0 lens  
Use of diffractive-aspheric lens  
Ultralight, wide-angle, passively athermalized LWIR lens
- **Suitable for use with VGA and qVGA detectors and smaller**
- **Applications and capabilities**  
Thermal imaging and thermography  
Automotive vision enhancement

#### Optical Specifications

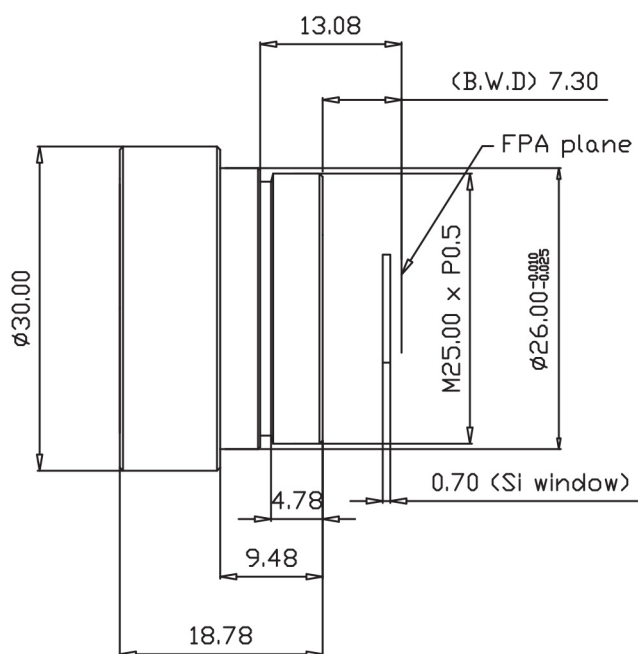
- **Focal length** 15.0 mm
- **Aperture-based f-number** f/1.03
- **Maximum image circle** 8.16 mm
- **Waveband** 8~12  $\mu\text{m}$
- **Focus range** 1.7 m to infinity
- **Transmittance** > 95 % (AR coating)  
> 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size ( $\mu\text{m}$ )	FOV (deg)		
		H	V	D
640 X 480	12	29.5	22.0	37.3
384 X 288	17	<b>25.0</b>	<b>18.7</b>	<b>31.4</b>
	12	17.6	13.2	22.0
320 X 240	17	20.8	15.6	26.1
	12	14.7	11.0	18.4

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 (M25 x P0.5)
- **Weight** 30 g
- **Sealing** IP67 / on front
- **Dimension**



## Environmental Specifications

- Operating temperature -35 ~ +60 °C
- Storage temperature -55 ~ +85 °C