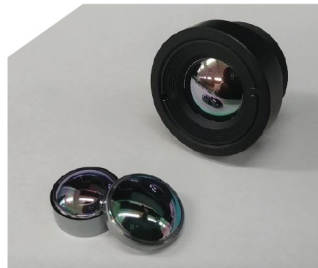


# ViewNyx

## Athermalized fixed focus

### o Molded LWIR Lens FL 6.2 mm f/1.0 (Model VN6.210)

#### 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 6.2 mm, f/1.0 lens  
Use of diffractive-aspheric lens  
Ultralight, wide-angle, passively athermalized LWIR lens
- **Suitable for use with qVGA and qqVGA detectors and smaller**
- **Applications and capabilities**  
Thermal imaging and thermography  
Automotive vision enhancement

#### Optical Specifications

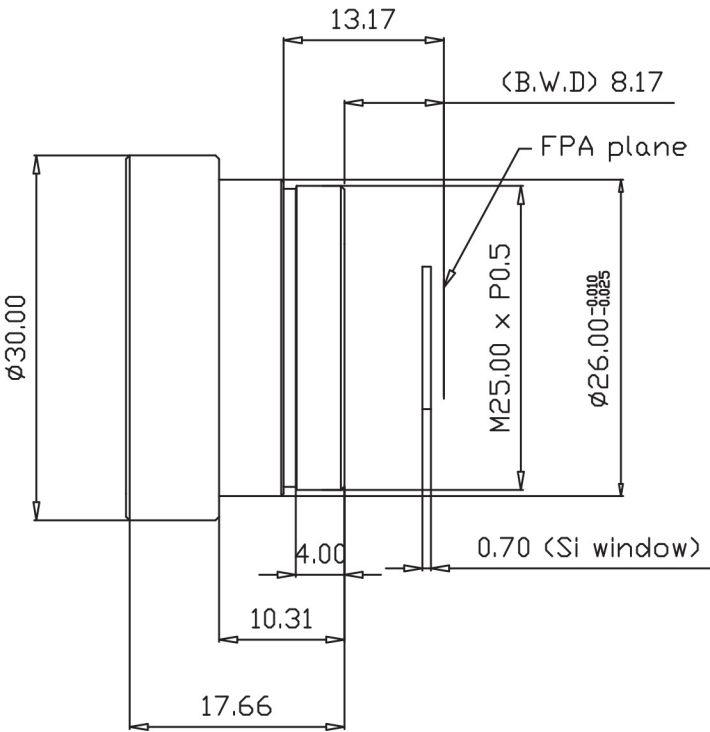
- **Focal length** 6.2 mm
- **Aperture-based f-number** f/1.0
- **Maximum image circle** 10 mm
- **Waveband** 8~12 um
- **Focus range** 0.41 m to infinity
- **Transmittance**  
> 95 % (AR coating)  
> 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size (um)	FOV (deg)		
		H	V	D
640 X 480	12	<b>75.0</b>	<b>54.6</b>	<b>99.5</b>
384 X 288	17	62.5	46.0	80.5
	12	43.3	32.2	54.6
320 X 240	17	51.4	38.2	65.4
	12	36.0	26.8	45.1

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