

ViewNyx

Athermalized fixed focus

o Molded LWIR Lens FL 10.7 mm f/1.0 (Model VN1110)

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 10.7 mm, f/1.0 lens
Use of diffractive-aspheric lens
Ultralight, wide-angle, VGA and qVGA lens
- **Suitable for use with VGA and qVGA detector and smaller**
- **Applications and capabilities**
Thermal imaging and thermography
Drone thermal imaging

Optical Specifications

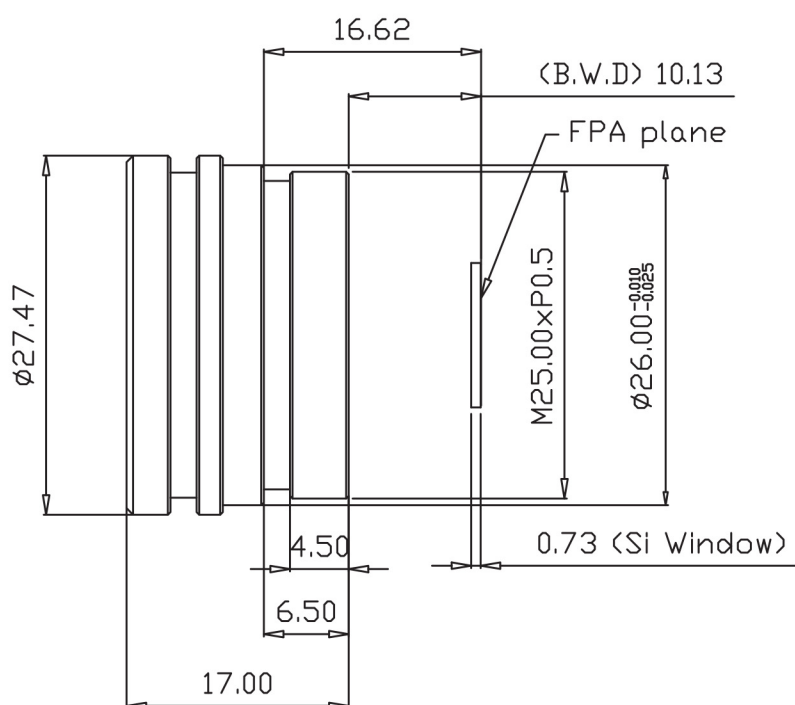
- **Focal length** 10.7 mm
- **Aperture-based f-number** f/1.0
- **Maximum image circle** 11 mm
- **Waveband** 8~12 um
- **Focus range** 1.2 m to infinity
- **Transmittance** > 95 % (AR coating)
> 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size (um)	FOV (deg)		
		H	V	D
640 X 480	17	61.4	44.8	81.2
	12	42.0	31.2	53.3
384 X 288	17	35.5	26.4	44.8
	12	24.8	18.6	31.2
320 X 240	17	29.4	21.9	37.0
	12	20.6	15.4	25.9

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** 25.6 g
- **Sealing** IP67 / on front
- **Dimension**



Environmental Specifications

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