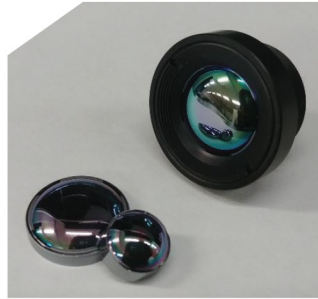


ViewNyx

Athermalized fixed focus

o Molded LWIR Lens FL 4.0 mm f/1.2 (Model VN4.012)

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 4.0 mm, f/1.18 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

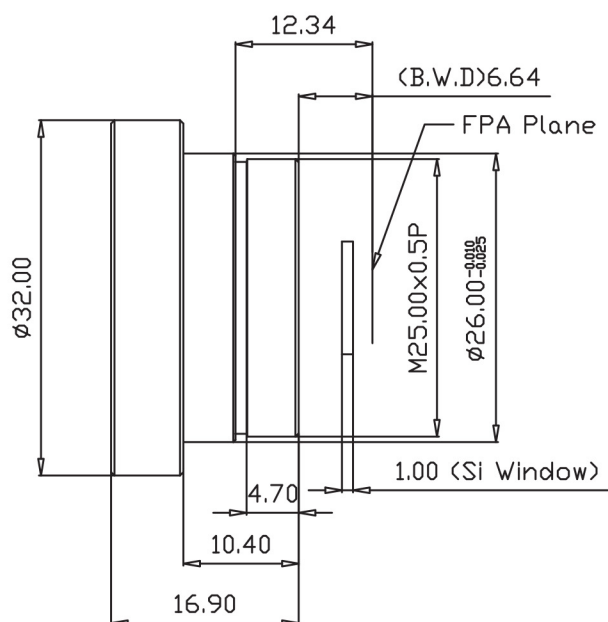
- **Focal length** 4.0 mm
- **Aperture-based f-number** f/1.18
- **Maximum image circle** 8.6mm
- **Waveband** 8~12 um
- **Focus range** 0.1 m to infinity
- **Transmittance** > 95 % (AR coating)
> 90 % (DLC coating)
- **Field of view (FOV)**

Sensor Array	Pixel size (um)	FOV (deg)		
		H	V	D
384 X 288	17	90	68.7	112.6
	12	64.9	49	80.1
320 X 240	17	75.9	57.7	93.5
	12	54.4	41.1	67.4
160 X 120	25	56.6	42.7	70.1
	17	38.8	29.2	48.3

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** 28g
- **Sealing** IP67 / on front
- **Dimension**



Environmental Specifications

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