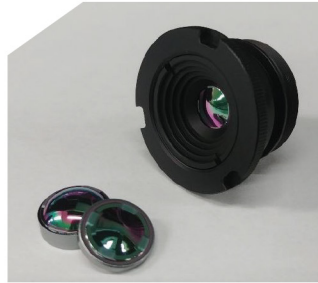


ViewNyx

Athermalized fixed focus

o Molded LWIR Lens FL 4.7 mm f/1.0 (Model VN4.710)

Introduction



- **Precision molded LWIR lenses using chalcogenide glass**
High-volume, cost effective manufacturing
Optimized for the 8~12 μm wavelength range
- **High performance LWIR lenses**
FL 4.7 mm, f/1.0 lens
Use of diffractive-aspheric lens
Ultralight, wide-angle, passively athermalized LWIR lens
- **Applications and capabilities**
Thermal imaging and thermography

Optical Specifications

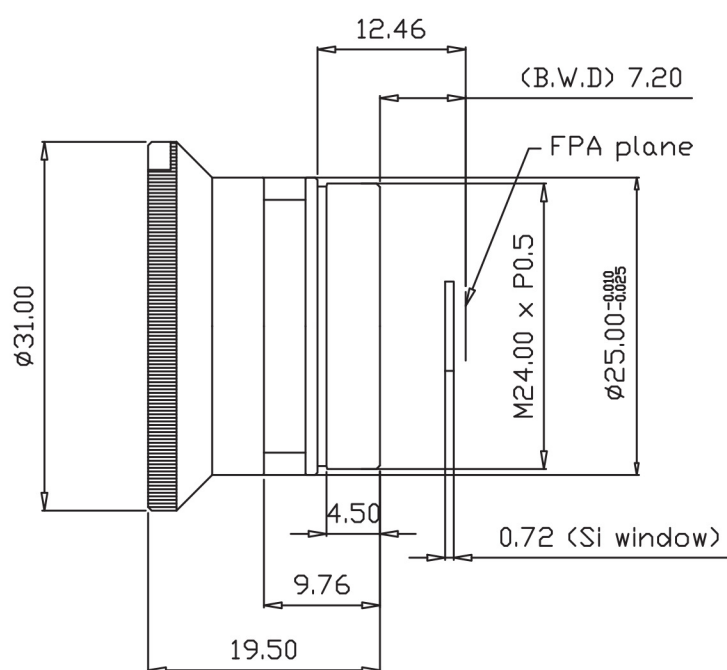
- **Focal length** 4.7 mm
- **Aperture-based f-number** f/1.05 mm
- **Waveband** 8~12 μm
- **Focus range** 0.24 m to infinity
- **Transmittance** > 95 % (AR coating)
> 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size (μm)	FOV (deg)		
		H	V	D
384 x 288	12	62	44.4	83
320 x 240	12	50	36.4	65.2
160 x 120	25	52.4	38	68.6
	17	34.2	25.3	43.6

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 (M24 x P0.5)
- **Weight** 20.2 g
- **Sealing** IP67 / on front
- **Dimension**



Environmental Specifications

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