ViewNyx

Athermalized fixed focus

o Molded LWIR Lens FL 19 mm f/1.0 (Model VN1910)

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 19 mm, f/1.03 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

Focal length 19 mm
 Aperture-based f-number f/1.03
 Maximum image circle 14.2 mm
 Waveband 8~12 um
 Focus range 2.7 m to infinity
 Transmittance > 95 % (AR coating)
 > 90 % (DLC coating)

· Field of view (FOV)

Sensor Array	Pixel size (um)	FOV (deg)		
		Н	V	D
640 X 480	17	32.2	24.2	40.1
	12	22.8	17.2	28.4
384 X 288	17	19.4	14.6	24.2
	12	13.8	10.4	17.2
320 X 240	17	16.2	12.2	20.2
	12	11.5	8.6	14.3

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.



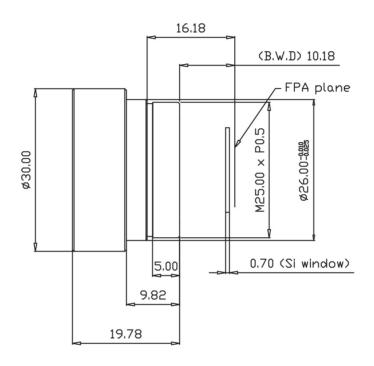
Mechanical Specifications

• Lens mount Threaded (M25 x P0.5)

• Weight 35 g

• Sealing IP67 / on front

Dimension



Environmental Specifications

Operating temperature

-35 ~ +60 °C

• Storage temperature

-55 ~ +85 °C