ViewNyx

Athermalized fixed focus

o Molded LWIR Lens FL 5.4 mm f/1.1 (Model VN5.411)

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 5.4 mm, f/1.1 lens
 Use of diffractive-aspheric lens
 Ultralight, wide-angle, passively athermalized LWIR lens
- Applications and capabilities
 Thermal imaging and thermography

Optical Specifications • Focal length

Focal length
 Aperture-based f-number
 Waveband
 Focus range
 Transmittance
 5.4 mm
 f/1.14
 8~12 um
 0.2 m to infinity
 > 95 % (AR coating)

> 90 % (DLC coating)

Field of view (FOV)

Sensor array	Pixel size (um)	FOV (deg)		
		Н	V	D
320 x 240	12	41.5	30.9	52.4
160 x 120	17	29.2	21.8	36.6
	12	20.5	15.4	25.7
80 x 60	35	30.0	22.5	37.7
	25	21.4	16.0	26.8

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.



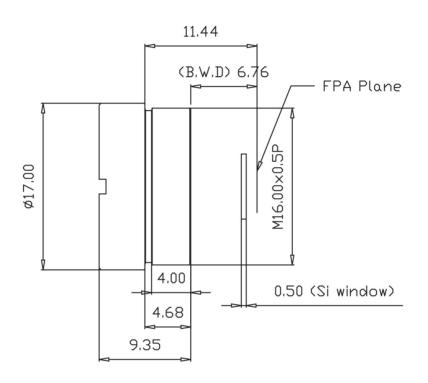
Mechanical **Specifications**

• Lens mount Threaded (M16 x P0.5)

Weight

 Sealing IP67 / on front

• Dimension



Environmental Specifications

Operating temperature

-35 ~ +60 °C

• Storage temperature

-55 ~ +85 °C