ViewNyx
Athermalized fixed focus

Molded LWIR Lens FL 6.5 mm f/1.1 (Model VN6.511)

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 6.5 mm, f/1.1 lens
  Use of diffractive-aspheric lens
  Light and Passively athermalized LWIR lens
- **Suitable for use with XGA and VGA detector and smaller**
- **Applications and capabilities**
  Thermal imaging and thermography
  Thermal security cameras

Optical Specifications

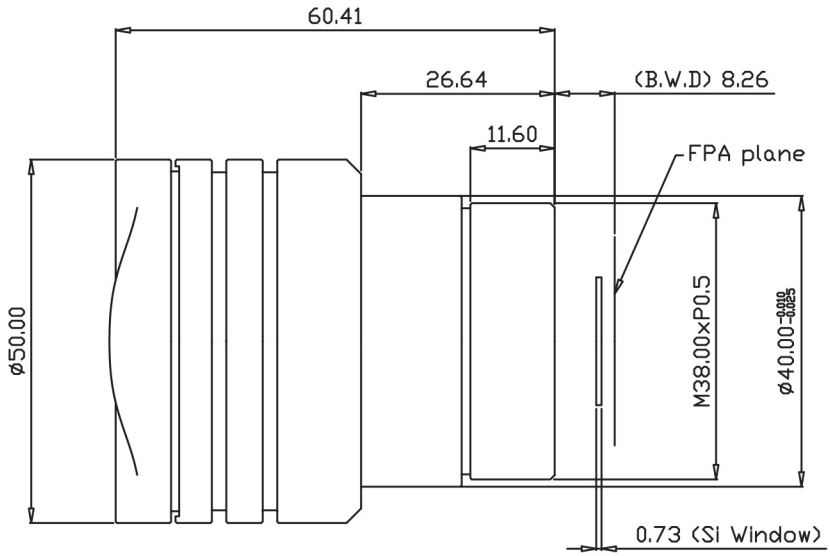
- **Focal length** 6.5 mm
- **Aperture-based f-number** f/1.1
- **Maximum image circle** 17 mm
- **Waveband** 8~12 um
- **Focus range** 0.4 m to infinity
- **Transmittance** > 95 % (AR coating)
  > 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size (um)	FOV (deg)		
		H	V	D
1024 X 768	12	**103.0**	**78.0**	**130.6**
	10	86.2	65.5	107.3
640 X 480	17	91.4	69.4	114.2
	12	65.5	49.6	81.0
	10	54.9	41.5	68.1

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 (M35 x P0.5)
• Weight	213.4 g
• Sealing	IP67 / on front
• Dimension	



Environmental Specifications

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