ViewNyx
Athermalized fixed focus

Molded LWIR Lens FL 4.7 mm f/1.1 (Model VN4.711)

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 4.7 mm, f/1.1 lens
  Use of diffractive-aspheric lens
  Wide-angle, passively athermalized LWIR lens
- **Suitable for use with VGA and qVGA detectors and smaller**
- **Applications and capabilities**
  Thermal imaging and thermography
  Thermal security cameras

Optical Specifications

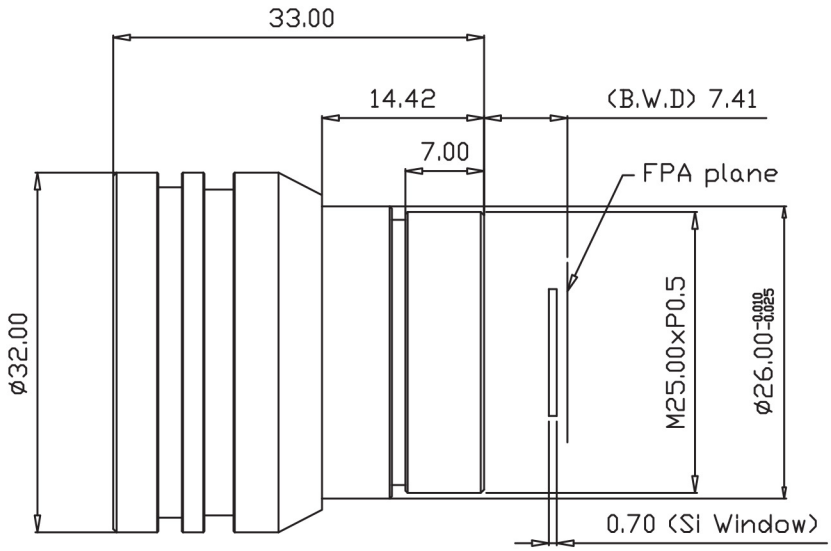
- **Focal length** 4.7 mm
- **Aperture-based f-number** f/1.1
- **Maximum image circle** 13.8 mm
- **Waveband** 8~12 um
- **Focus range** 0.4 m to infinity
- **Transmittance** > 95 % (AR coating)
  > 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size (um)	FOV (deg)		
		H	V	D
640 X 480	12	**93.7**	**70**	**119**
384 X 288	17	79.3	60	100
	12	56	42	70
320 X 240	17	66	49.6	82.7
	12	46.7	35	58.3

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	53.2 g
• Sealing	IP67 / on front
• Dimension	



Environmental Specifications

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