ViewNyx
Athermalized fixed focus

Molded LWIR Lens FL 35.0 mm f/1.0 (Model VN3510)

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 35.0 mm, f/1.0 lens
  Use of diffractive-aspheric lens
  Light and 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

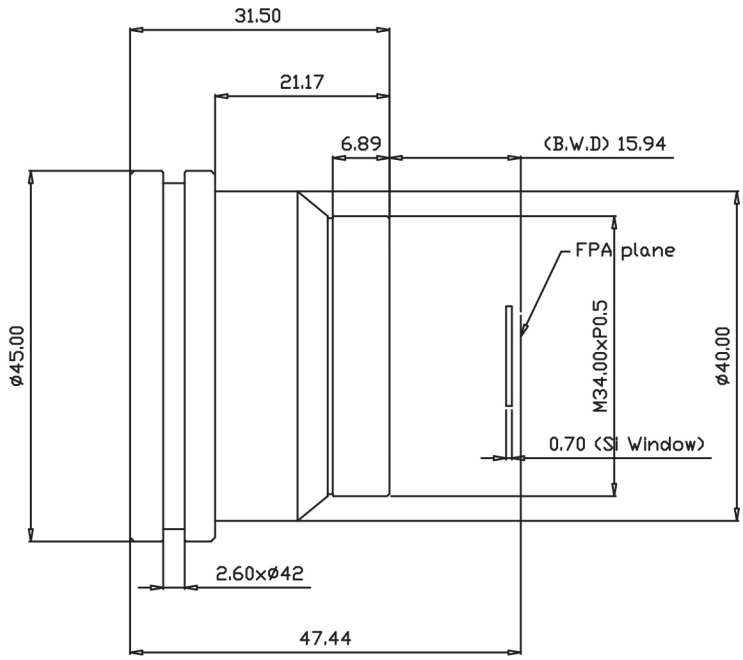
- **Focal length** 35.0 mm
- **Aperture-based f-number** f/1.0
- **Maximum image circle** 15mm
- **Waveband** 8~12 um
- **Focus range** 12.8 m to infinity
- **Transmittance** > 95 % (AR coating)
  > 90 % (DLC coating)
- **Field of view (FOV)**

Sensor Array	Pixel size (um)	FOV (deg)		
		H	V	D
640 X 480	17	17.7	13.3	22.0
	12	**12.5**	**9.4**	**15.6**
384 X 288	17	10.7	8.0	13.3
	12	7.5	5.7	9.4
320 X 240	17	8.9	6.7	11.1
	12	6.3	4.7	7.8

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 (M34 x P0.5)
- **Weight** 87.1g
- **Sealing** IP67 / on front
- **Dimension**



Environmental Specifications

- **Operating temperature** -35 ~ +60 ℃
- **Storage temperature** -55 ~ +85 ℃