# ViewNyx
# Athermalized fixed focus

## Molded LWIR Lens FL 4.3 mm f/1.4 (Model VN4.314)

### 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 4.3 mm, f/1.4 lens
  Use of diffractive-aspheric lens
  Ultralight, wide-angle, passively athermalized LWIR lens
- **Applications and capabilities**
  Thermal imaging and thermography

### Optical Specifications

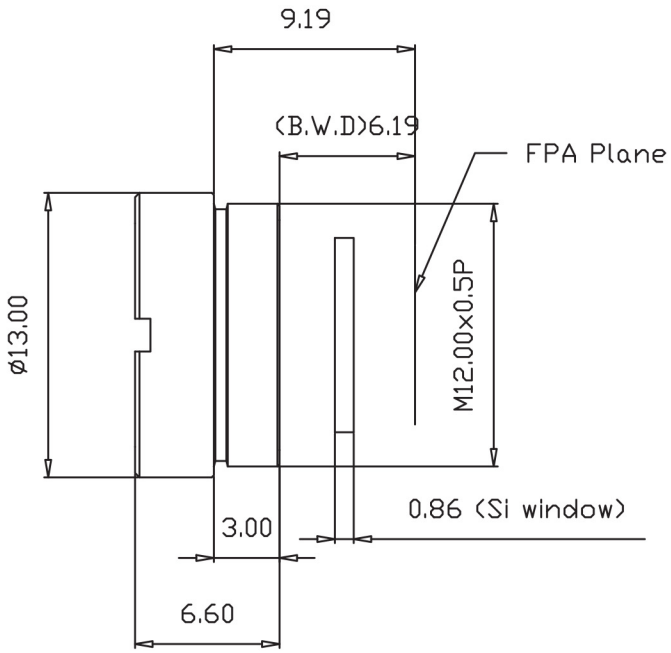
- **Focal length** 4.3 mm
- **Aperture-based f-number** f/1.39
- **Waveband** 8~12 um
- **Focus range** 0.1 m to infinity
- **Transmittance** > 95 % (AR coating)
  > 90 % (DLC coating)
- **Field of view (FOV)**

| Sensor Array | Pixel size (um) | FOV (deg) | | |
|---|---|---|---|---|
| | | H | V | D |
| **384 X 288** | 17 | **90** | **65.2** | **120** |
| | 12 | 61.1 | 45.4 | 78 |
| **320 X 240** | 17 | 73.1 | 53.8 | 94.5 |
| | 12 | 50.5 | 37.7 | 63.8 |
| **160 X 120** | 25 | 52.7 | 39.3 | 66.7 |
| | 17 | 35.6 | 26.7 | 44.6 |
| **80 X 60** | 35 | 36.7 | 27.5 | 46 |

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 (M12 x P0.5)
- **Weight** — 2.3 g
- **Sealing** — IP67 / on front
- **Dimension**




## Environmental Specifications

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