ViewNyx
Athermalized fixed focus

Molded LWIR Lens FL 7.1 mm f/1.0 (Model VN7.110)

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 7.1 mm, f/1.0 lens
  Use of diffractive-aspheric lens
  Ultralight, wide-angle, VGA and qVGA lens
- **Suitable for use with VGA and qVGA detector and smaller**
- **Applications and capabilities**
  Thermal imaging and thermography
  Drone thermal imaging

Optical Specifications

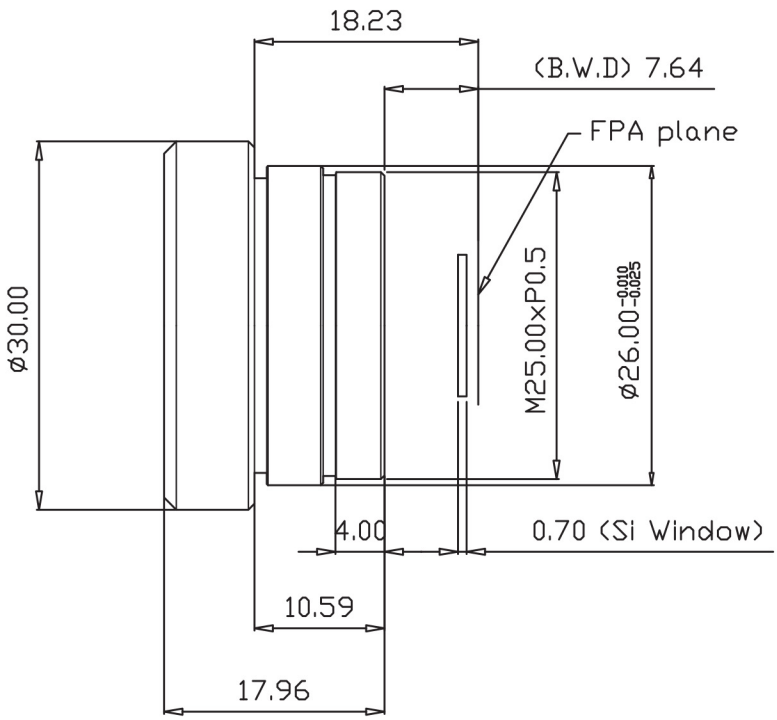
- **Focal length** 7.1 mm
- **Aperture-based f-number** f/1.0
- **Maximum image circle** 11 mm
- **Waveband** 8~12 um
- **Focus range** 0.5 m to infinity
- **Transmittance** > 95 % (AR coating)
  > 90 % (DLC coating)
- **Field of view (FOV)**

Sensor array	Pixel size (um)	FOV (deg)		
		H	V	D
640 X 480	17	99.2	69.6	69.6
	12	**65.0**	**47.5**	**84.3**
384 X 288	17	54.4	40.1	69.6
	12	37.6	28.0	47.5
320 X 240	17	44.8	33.2	56.8
	12	31.2	23.3	39.3

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
- Dimension



Environmental Specifications

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