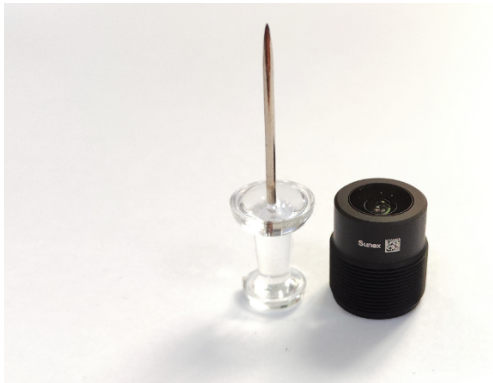


Miniature VIS+IR Lens



Description

The DSL973 lens is a miniature HDR lens with a large angle, custom distortion, designed for automotive OMS application or standard sensors up to 1/2.5" format sizes, low F# value, good thermal stability. At the same time in the visible light and infrared has a good ghost, stray light performance, where high resolution and the LowGhost™HDR feature are required.

Key Features

- HFOV ~ 125° on 1/2.5" format sensors, wide angle
- Sunex LowGhost™ HDR
- High thermal stability, lower flare and ghost.
- Excellent low light performance: F/2.2 aperture
- Compact Board-Mount size
- Double channel wavelength

Optical Specifications

Sunex PN DSL973	
Description	HDR Lens
Imager Format	Up to 1/2.5"
Nominal Imager Resolution	5MP
Focal length	2.97mm
Relative Aperture (F/#)	2.2
Design Image Circle	6.6mm
Field of View	FOV 172° at 6.6mm image circle FOV 125° at 5.76mm image circle
Total Track Length	14.2mm
Distortion (F-theta)	-25.4% at 6.6mm
Chief Ray Angle	19° at 6.6mm
IR cut-off filter	VIS+940/NIR/BP940 optional

Applications

- Automotive OMS
- Security
- Machine vision

Technical drawing of the detector assembly showing dimensions and components. The drawing includes the following labels and dimensions:

- HP3 on L1S1**: Label pointing to the leftmost vertical component.
- Sunex**: Label for the central rectangular component.
- Cover glass**: Label pointing to the top-right thin layer.
- Image plane**: Label pointing to the bottom-right thin layer.
- Dimensions**:
 - Top horizontal dimension: 8.10 ± 0.1
 - Left vertical dimension: $\phi 11.00 \pm 0.05$
 - Right vertical dimension: $\phi 11.20 -0.05$
 - Bottom horizontal dimension: 14.32 ± 0.25
 - Bottom horizontal dimension (small): 0.94 ± 0.2
 - Bottom horizontal dimension (small): (0.40)
 - Internal horizontal dimension: (1.80)
 - Internal vertical dimension: (1.80)
 - Internal horizontal dimension: (1.50)
 - Bottom right vertical dimension: $M12.0X0.5-4h$