

HDR Lens



Description

The DSL335 lens is a miniature-designed lens specifically designed for machine vision, standard sensors up to 1/3" format sizes. In visible light and infrared has a good contrast, resolution, ghost, stray light performance, where high resolution and the LowGhost™ HDR feature are required.

Key Features

- All glass
- Sunex LowGhost™ HDR
- Designed for finite distance
- Support VIS and NIR

Optical Specifications

Sunex PN DSL335	
Description	HDR Lens
Imager Format	1/3"
Nominal Imager Resolution	Up to 5MP
Focal length	2.26mm
Relative Aperture (F/#)	4.0
Design Image Circle	4.71mm
Field of View	FOV 95° at 4.71mm image circle
Total Track Length	21.4mm
Distortion (F-tan(theta))	24.8% at 4.71mm
Chief Ray Angle	9.06° at 4.71mm
IR cut-off filter	NIR

Applications

- Machine vision
- Defect detection
- Industrial camera
- Security

Technical drawing of the optical system showing detailed dimensions and components. The drawing includes the following dimensions and labels:

- Overall diameter: $\Phi 13.00 \pm 0.1$
- Distance from front face to first lens: 3.53 ± 0.1
- Distance between lenses: (2.40)
- Distance from second lens to third lens: (0.6)
- Distance from third lens to fourth lens: (2.40)
- Distance from fourth lens to image plane: (6.80)
- Distance from image plane to cover glass: (3.80)
- Distance from cover glass to image plane: 2.0 ± 0.3
- Image plane diameter: $\Phi 8.60 \pm 0.1$
- Cover glass thickness: $M12 \times 0.5-4h$
- Distance from front face to image plane: 15.00 ± 0.3
- Distance from front face to cover glass: (9.40)
- Distance from front face to image plane (total): $\Phi 12.20 \pm 0.1$
- Labels: "Image plane" and "Cover glass" with arrows pointing to their respective components.