

Wide-Angle Lens for 1/4" Format Imagers

Description

The DSL209 lens is a miniature wide-angle lens optimized for 1/4" format imagers. The wide field of view, low F-number, and f- θ distortion make this lens ideal for security and automotive applications.

Key Features

- Wide field of view : 123 deg HFOV on 1/4" imager
- Excellent low light performance: F/2.0 aperture
- All glass elements providing environmental stability
- Distortion: f- θ type (image height is proportional to the input angle $h = f \cdot \theta$ where f is the focal length)

Applications

- Security and Surveillance cameras
- Automotive Rear View and Occupant Sensing cameras

Optical Specifications

Sunex PN DSL209	
Description	Wide Angle Lens
Imager Format	1/4"
Focal length [mm]	1.7
F/#	2.0
Design Image Circle [mm]	4.7
Horizontal Field of View [degrees]	123° on 1/4" imager
Resolution	See MTF data for details
Distortion	-1.4% from f- θ
Corner chief ray angle [degrees]	<15°
Relative Illumination [@ full field]	75%
Mechanical	See drawing below
IR cut-off filter	Integrated coating

DSL209A Mechanical Dimensions [mm]:

