

Wide Angle Lens

Description

DSL310A lens is a miniature wide-angle lens optimized for security and automotive applications.

Key Features

- Diagonal field of view 120 deg on 1/4" imager
- Large, F/2.0 aperture for good low-light performance
- All glass and metal construction provides environmental stability
- Distortion: f- θ type (image height is proportional to the input angle $h=f*\theta$, where f is the focal length).

Applications

- Security and surveillance
- Automotive rear view cameras

Optical specifications

| PN | DSL310A |
|---------------------------------------|---------------------------------------|
| Description | Wide angle lens |
| Image circle | 4.5mm (1/4" format) |
| Focal length (mm) | 2.17 |
| Back focal length (mm) | See mechanical drawing |
| F/# | 2.0 |
| Distortion | 0.56 (departure from f- θ) |
| Diagonal field of view on 1/4" imager | 120 deg |
| Resolution | Center:125/125 70%FOV:80/80 |
| Relative illumination | 0.92 at full field |
| Chief ray angle | 15.6 deg |
| IR Cut Filter Option | Optional (-NIR version has no filter) |
| Lens barrel thread | M12x0.5-6h |

DSL310A Mechanical Drawing: (mm)

