

Multi-Megapixel Miniature SuperFisheye™ Lens



Description

The DSL218 lens is an all glass lens optimized to image a 180 degree vertical field of view on 1/3" HD/HDR sensor with a 3:2 format. The lens is designed for up to 5MP resolution sensors. It is suitable for industrial, security, and surveillance applications.

Key Features

- Maximum field of view (FOV): 180°
- All glass design to optimize thermal stability
- F/2.0 for superior low-light performance

Optical Specifications

Sunex PN DSL218	
Description	Miniature SuperFisheye™
Imager Format	Up to 1/3"
Nominal Imager Resolution	Up to 5MP
Focal Length	1.2mm
Relative Aperture (F/#)	F/2.0
Image Circle	3.3mm
Field of View	139° at 2.7 mm image circle 180° at 3.3 mm image circle
Total Track Length	18mm
Distortion	-13% from F-θ
Chief Ray Angle	4° at 3.3mm image circle, linear
IR cut-off filter	Optional 670nm cutoff filter

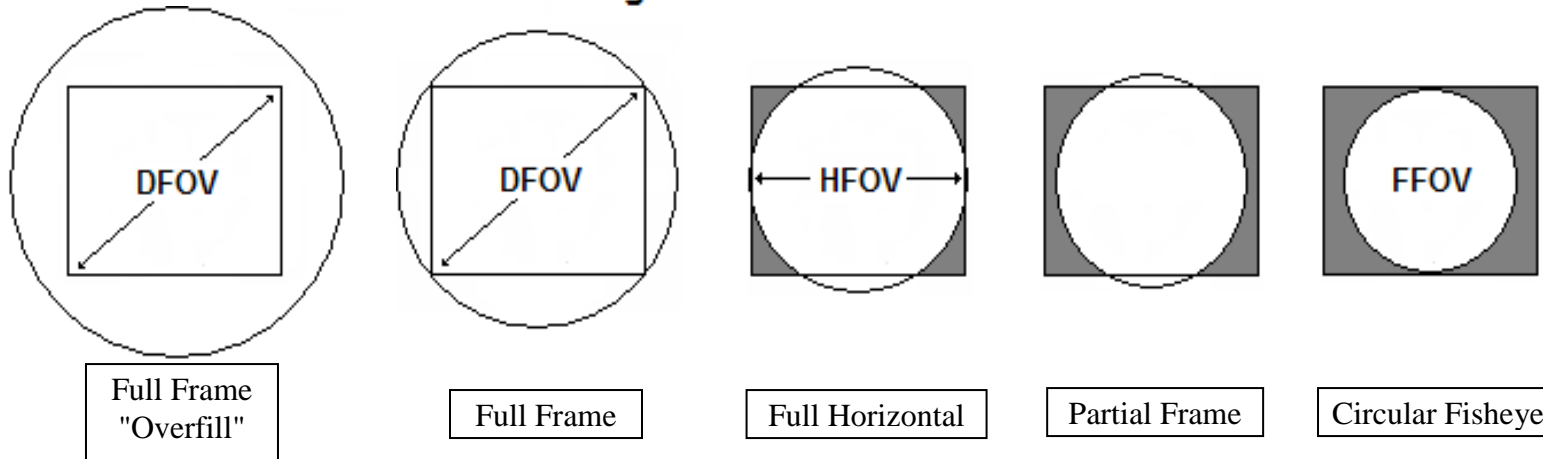
Applications

- Security/Surveillance
- Consumer imaging
- Automotive surround view

Excellence in Digital Imaging Optics

Image circle format using a 4:3 aspect ratio imager:

Image Circle vs. Sensor Format



DSL218 on: 1/6" and smaller

~1/6"-1/5"

~1/4"

~1/3.6"

1/3.2" or larger

DSL218A-NIR-F2.0 and DSL218A-670-F2.0 Mechanical Dimensions [mm]:

Note: DSL218A is compatible with the Sunex CMT821 mount

