

Tailored Distortion™ Miniature SuperFisheye™ Lens



Description

The DSL181 lens is a miniature SuperFisheye™ lens with Tailored Distortion™ designed with a field of view of up to 190 degrees on 1/4" to 1/2" format imagers with HD resolution. The low F-number, thermal stability, and special distortion characteristics make this lens ideal for exterior based camera applications.

Key Features

- SuperFisheye FOV: 190°
- Tailored Distortion™
- Superior low light performance: F/2.2 aperture
- Compact size

Optical Specifications

Sunex PN DSL181	
Description	Tailored Distortion™ Fisheye Lens
Imager Format	Up to 1/2"
Nominal Imager Resolution	2MP
Focal Length	1.25mm
Relative Aperture (F/#)	F/2.2
Image Circle	4.8mm
Field of View	190° at 4.8mm image circle
Total Track Length	16.5mm
Distortion	+15.3% from F- θ
Chief Ray Angle	15° at 4.8mm image circle, linear
IR cut-off filter	Optional IR cut-off filter at 650 nm

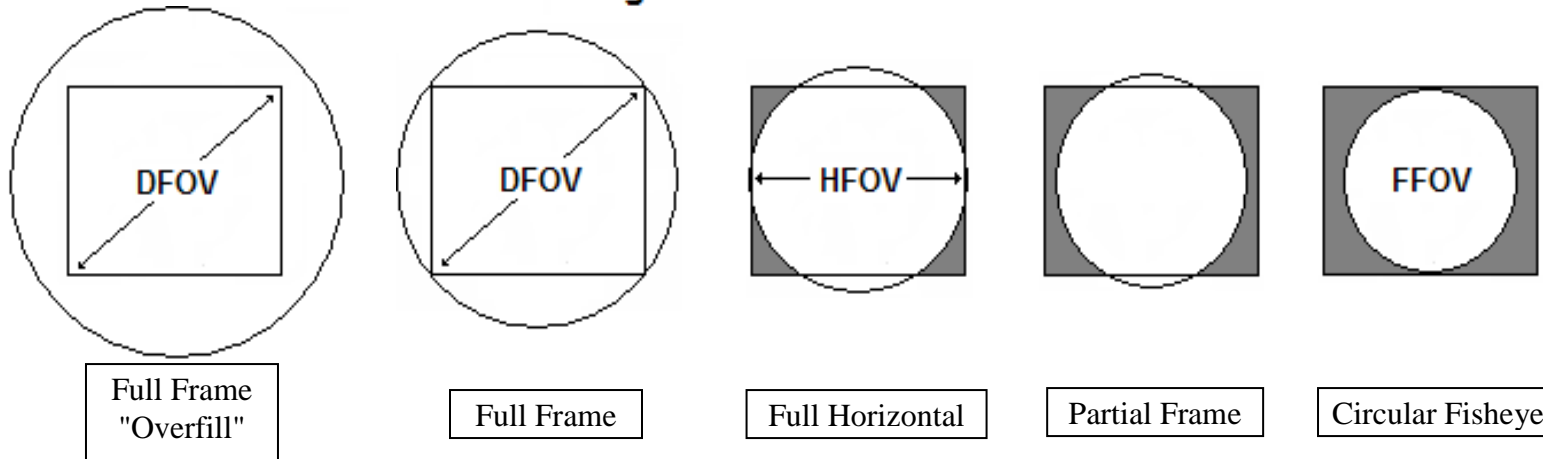
Applications

- Automotive Surround View
- Security and Surveillance
- Internet of Things (IoT)
- Computer Vision

Excellence in Digital Imaging Optics

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

Image Circle vs. Sensor Format



DSL181 on: 1/4" and smaller

~1/4"

~1/3"

~1/2.5"

1/2" or larger

DSL181B-650-F2.2 and DSL181B-NIR-F2.2 Mechanical Dimensions [mm]:

Note: DSL181B is intended for use with Sunex CMT168 mount

