

### Tailored Distortion™ Miniature SuperFisheye™ Lens



#### Description

The DSL182 lens is a miniature SuperFisheye™ lens with Tailored Distortion™ designed with a field of view of up to 194 degrees on 1/3.2" to 1/1.8" 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: 194°
- Tailored Distortion™
- Superior low light performance: F/2.2 aperture
- Compact size

### Optical Specifications

Sunex PN DSL182	
Description	Tailored Distortion™ Fisheye Lens
Imager Format	Up to 1/1.8"
Nominal Imager Resolution	1.3MP
Focal Length	1.4mm
Relative Aperture (F/#)	F/2.2
Image Circle	5.4mm
Field of View	194° at 5.4mm image circle
Total Track Length	17.0mm
Distortion	+14% from F- $\theta$
Chief Ray Angle	13.5° at 5.4mm image circle, linear
IR cut-off filter	Optional IR cut-off filter at 650 nm

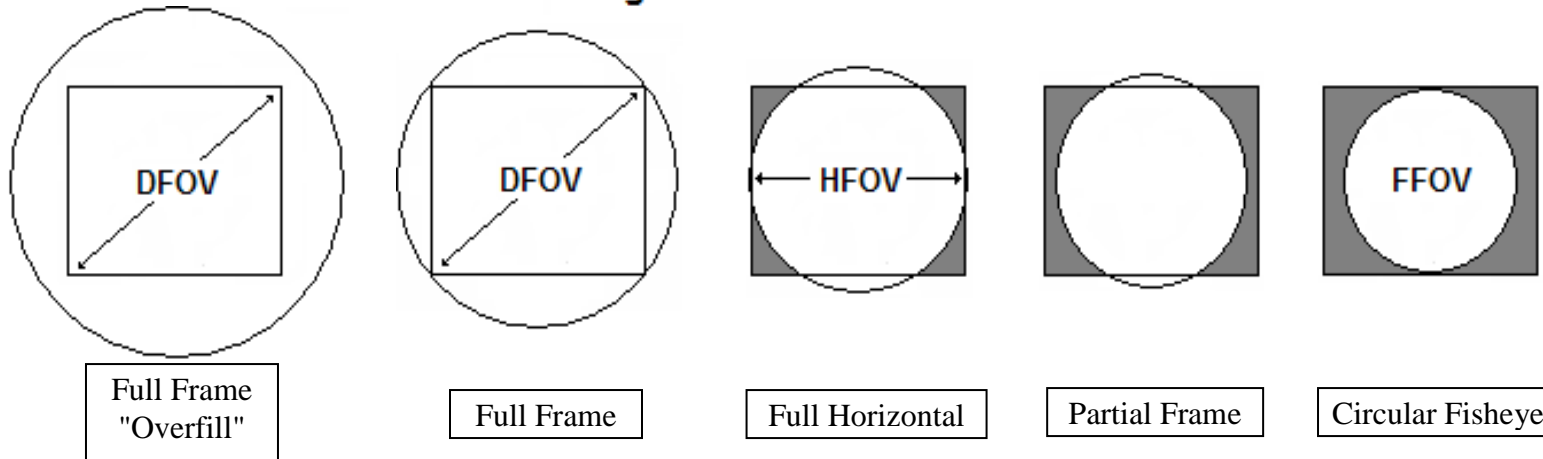
#### Applications

- 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



*DSL182 on: 1/3.6" and smaller*

*~1/3.6"*

*~1/2.7"*

*~1/2.3"*

*1/1.8" or larger*

### DSL182B-650-F2.2 and DSL182B-NIR-F2.2 Mechanical Dimensions [mm]:

Note: DSL182B is intended for use with Sunex CMT168 mount

