Sunex Excellence in Digital Imaging Optics

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	1080P
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-θ
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



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

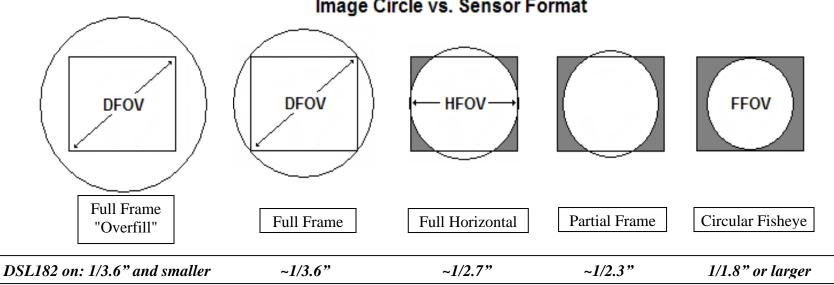
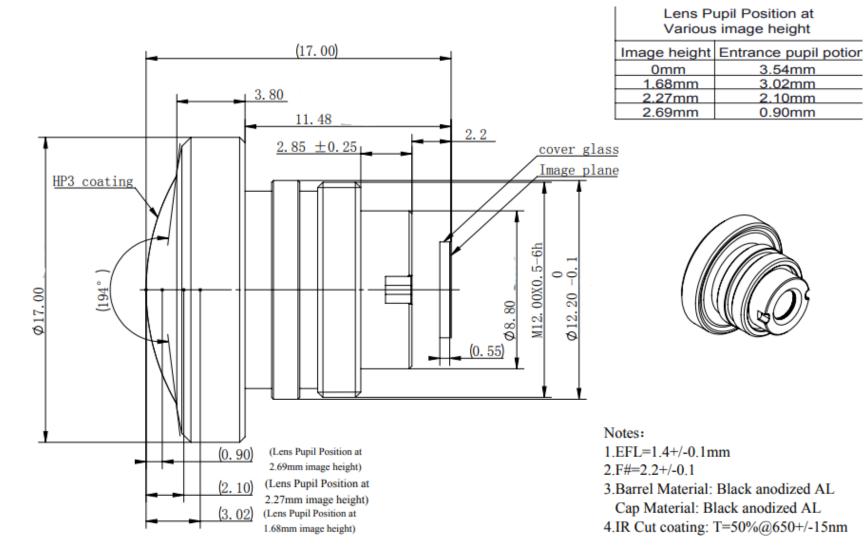


Image Circle vs. Sensor Format



DSL182G-650-F2.2 Mechanical Dimensions [mm]:



SUBJECT TO CHANGE WITHOUT NOTICE

Sunex, Inc. Telephone: +1 760 597 2966 www.sunex.com



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

Note: DSL182B is intended for use with Sunex CMT168 mount

