

Wide-Angle Lens for 1/3" Format Imagers

Description

The DSL212 lens is a miniature wide-angle glass lens optimized for 1/3" format up to 1.3MP imagers. The wide field of view and high resolution make this lens ideal for security and automotive applications.

Key Features

- Wide field of view : 134 deg HFOV on 1/3" imager
- All glass elements providing environmental stability
- Distortion: f- θ type (image height is proportional to the input angle $h=f*\theta$ where f is the focal length).

Applications

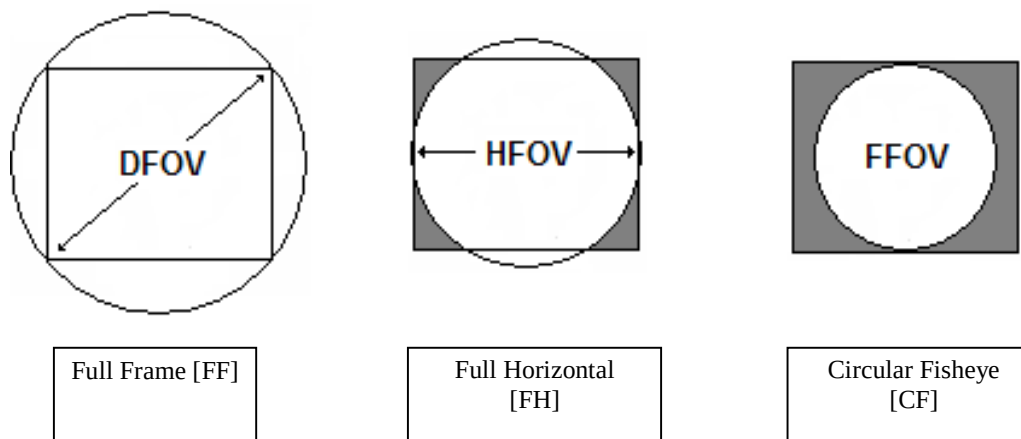
- Security and surveillance
- Automotive rear view cameras

Optical Specifications

Sunex PN DSL212	
Description	Wide angle lens
Nominal Image circle (mm)	6.0 - 1/3" format
Focal length (mm)	1.97
Back focal length (mm)	See mechanical drawing
F/#	3.0
Distortion	10% from f- θ
Horizontal field of view on 1/3" imager	134 °
Resolution	See MTF chart
Relative Illumination	66 %
Chief ray angle	11.6 °
Filter Option	Optional
Lens barrel thread	M12x0.5

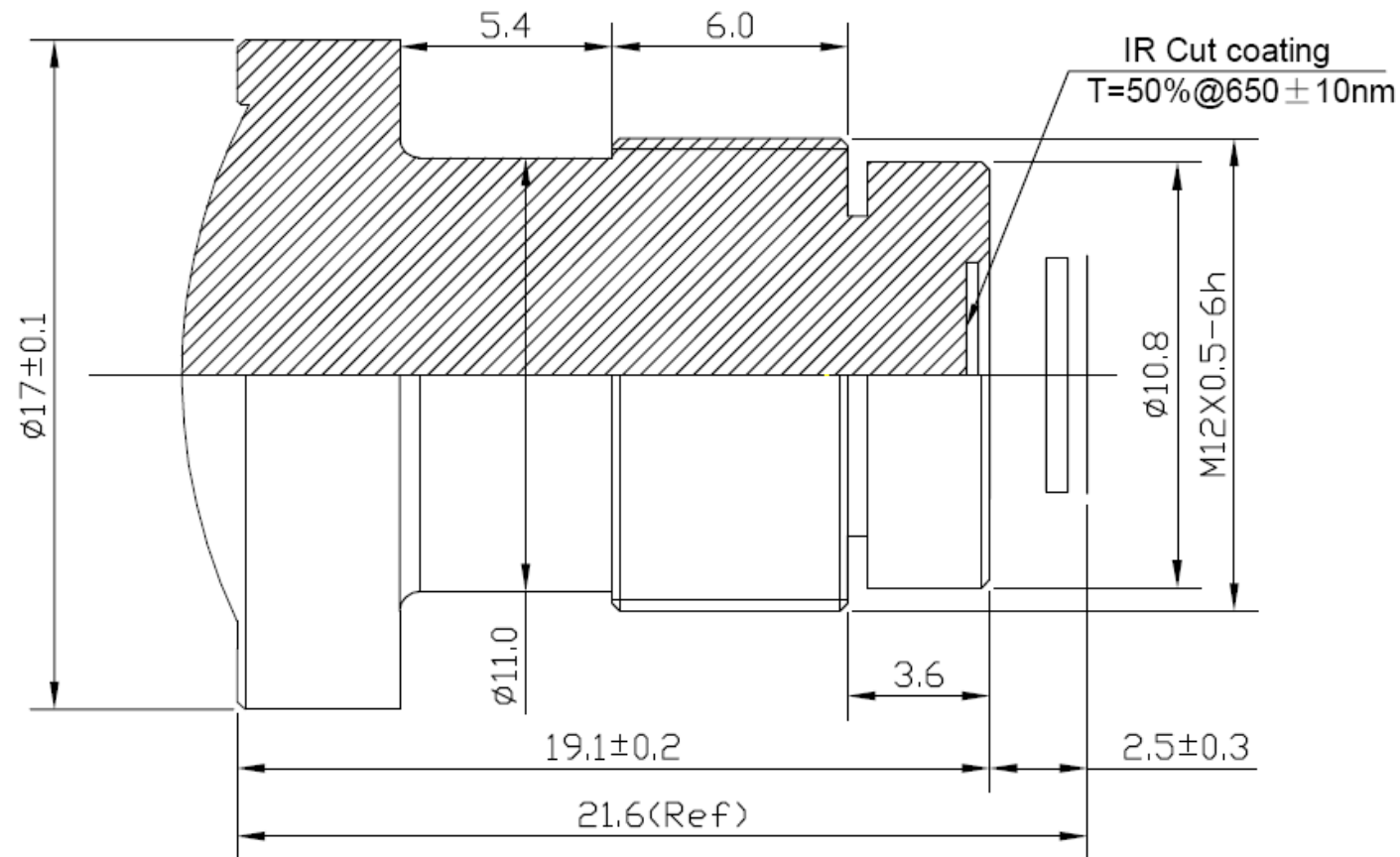
Image Circle and Field of View

Image Circle vs. Sensor Format



				Horizontal Field Of View (deg)			
Sunex PN	EFL (mm)	F/#	Lens DFOV (deg)	1/2.5" format 5.6mm width	1/3" format 4.8mm width	1/3.2" format 4.5mm width	1/4" format 3.6mm width
DSL212	1.97	3.0	160	152[FH]	133[FF]	127[FF]	102[FF]

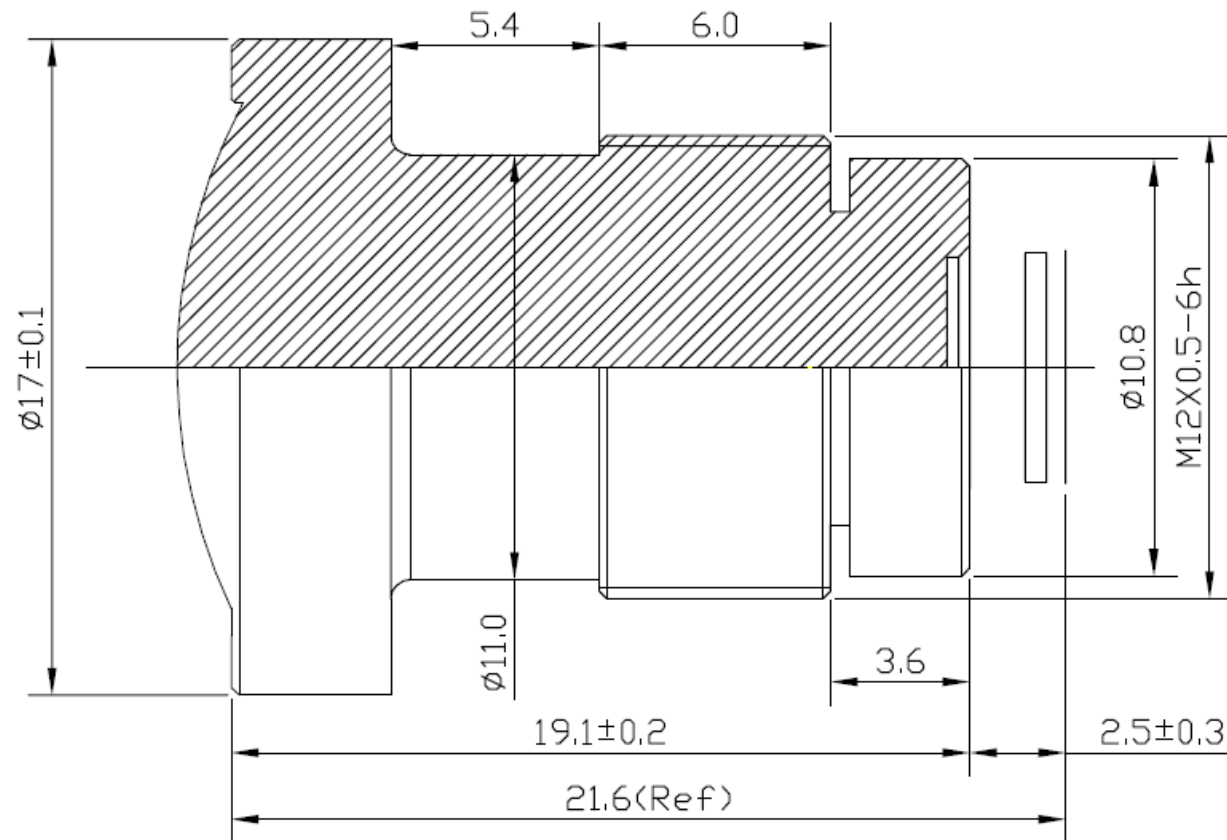
Mechanical Dimensions for DSL212D



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Order samples online at www.optics-online.com

Mechanical Dimensions for DSL212D-NIR (No IR cut filter)



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