

Wide Angle Security Lens

Description

The DSL203 lens is a miniature, wide-angle lens optimized for security and automotive applications. Great resolution and an all-glass design means stable, high-quality imaging for a variety of indoor and outdoor applications.

Key Features

- Designed for multi-megapixel resolution sensors
- Full field of view of up to 140°
- High brightness, F/2.6 aperture
- All glass design provides environmental stability
 Distortion: f-θ type for easy de-warping (image height is
 proportional to the input angle h=f*θ where f is the focal length).

Applications

- Security and surveillance
- Automotive rear view cameras

Table 1. Optical Parameters

Sunex PN: DSL203				
Description	Wide Angle Lens			
Design Imager Format	1/3"			
Focal Length [mm]	2.8			
F/#	2.6			
Design Image Circle [mm]	5.7			
Diagonal Field of View	140°			
Resolution	See MTF chart			
Distortion [f-θ]	-18% from f-θ			
Corner Chief Ray Angle [degrees]	<16°			
Relative Illumination	92%			
Mechanical	See drawing below			
Back Focal Length [mm]	4.9			
Lens Barrel Thread	M12x0.5			
IR Cut-off Filter	See below			

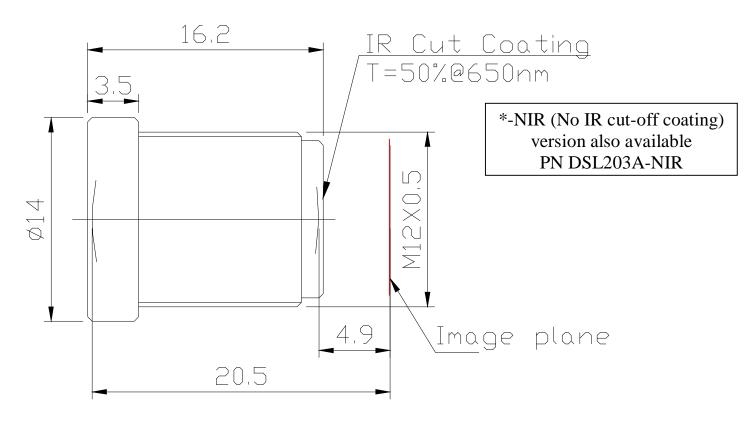
Table 2. Horizontal FOV by sensor format and size

for sensor format	1/2.5"	1/3"	1/3.2"	1/4"
with horizontal width (mm)	5.6	4.8	4.5	3.6
the HFOV is	140°	111°	102°	78°



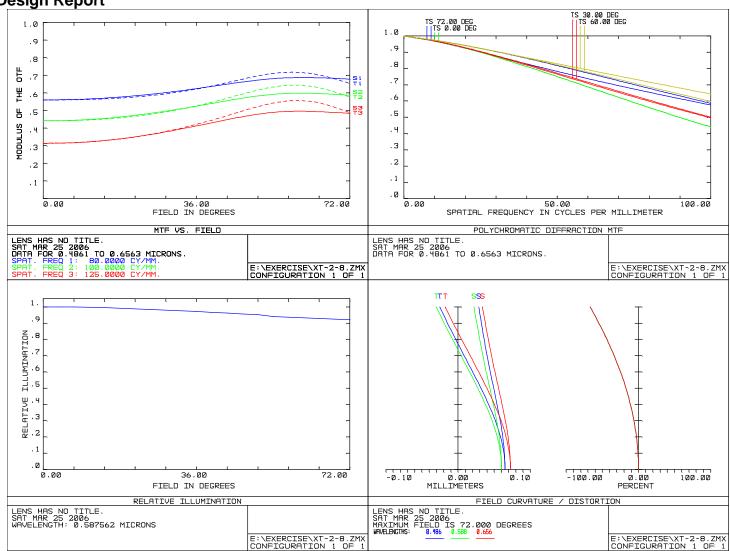


Mechanical dimensions of DSL203A (mm)









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