





# SL183 Varifocal



# LINEAR OPTICAL TECHNOLOGY

- Patented Linear Optical Technology® provides ultra wide field of view adjustable up to 120° for greater coverage with fewer cameras
- ✓ EasyZoom<sup>™</sup> allows the user to optimize the field of view with minimal need for refocusing
- ✓ IR corrected for true **Day/Night** cameras
- ✓ Supports multi megapixel resolution cameras for demanding applications
- ✓ Compatible with 1/3", 1/2.7" HD, 1/2.5", 1/2.3" 4K\* and 1/2"\*\* sensor sizes



Typical wide angle lens

With slip ring for ease of installation & positioning

Lenses	SL183A	SL183M	
	DC-autoiris	Manual iris	
Mount	CS mount		
Focal length	1.8-3.0mm		
Linear Optical Technology <sup>®</sup>	Yes (Note: this technology ca	Yes (Note: this technology causes the image to be flipped)	
Distortion	<1%		
Image circle	Ø7.4mm (at FL 1.8mm)		
Resolution	Up to 5MPix resolution		
F/#	F/1.8 to close		
IR Correction	435-850nm, <10um focal plane shift		
EasyZoom™	Yes		
Minimum focus distance	30cm		
Pan focus	.5m ~ ∞		
Lens Length to Mount	49.3 mm		
Lens length (TTL)	61.8 mm		
Back focal length (BFL)	6.7 – 8.4mm (depending on focus position)		
Chief ray angle (CRA)	< 15°		
Temperature range	-20C to 60C		
Weight	66g	59g	
Iris cable length	30cm	N/A	



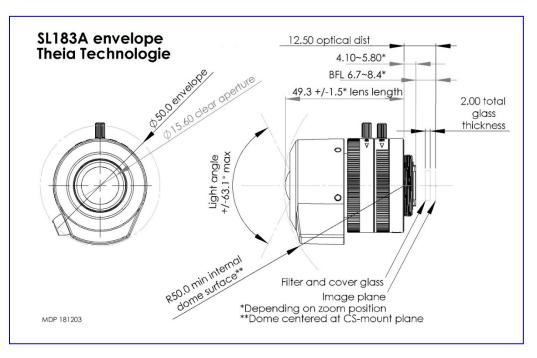
### **Fields of view**

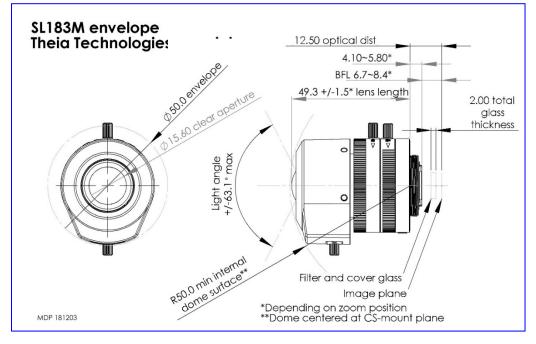
Sensor size	1/3"	1/2.7" HD	1/2.5"	1/2.3" 4K*
Field of view (H)	105° - 77°	116° - 89°	115° - 88°	120° - 92°
Field of view (V)	90° - 62°	84° - 57°	99° - 71°	104° - 76°
Field of view (D)	117° - 90°	123° - 96°	126° - 100°	130° - 105°

\*4K format = 4000 x 2000 pixels

\*\*On 1/2" sensor crop image vertically to eliminate dark corners

## Lens drawings

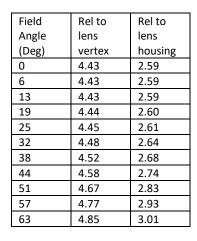






### **Entrance pupil location**

The entrance pupil location is inside the lens. The first lens element vertex or the lens plastic can be used as a reference to find the location.





#### Lens transmission

	31011		
Wavelength	Transmission	SL183/ML183 Transmission Curve Transmission	
420	0.3		
440	0.6		T
460	0.87	0.9	t
500	0.89	0.8	
540	0.89	0.7	+
580	0.91	<u>5</u> 0.6	+
620	0.93	5 0.6 5 0.5 F 0.4	+
660	0.92		
700	0.915	0.3	
740	0.91		
780	0.905		T
820	0.89	0.1	t
860	0.865	400 500 600 700 800 900 1000	⊥ )
900	0.82	Wavelength	
940	0.82		_
980	0.8		

For more information, contact

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#### Revisions

Version	Change	Reason
200625	Version before revision list added	
221114	Transmission chart added	Customer requested
	Entrance pupil chart added	Customer requested
	Expanded main specs table	Missing some common items
	Corrected QR barcode	Incorrect target location (page not found)
240410	Added Lens Length to Mount	Clarifying lens length
240516	Corrected Image Circle length	Incorrect @FL listed



