





ML183 Varifocal Ultra wide No Distortion 5 Megapixel Lens



LINEAR OPTICAL TECHNOLOGY

- Patented Linear Optical Technology® provides ultra wide field of view adjustable from 115° to 77° for greater coverage with fewer cameras
- ✓ EasyZoom™ allows the user to optimize the field of view with minimal need for refocusing
- ✓ IR corrected from UV (435nm) to IR (850nm)
- Supports multi megapixel resolution cameras for demanding applications



Typical wide angle lens

Lenses	ML183A DC-autoiris	ML183M Manual iris	
Mount		C mount	
Focal length		1.8-3.0mm	
•			
Linear Optical Technology®	Yes (Note: this technology causes the image to be flipped)		
Distortion	<1%		
Image circle	Ø7.4mm (at FL 1.3mm)		
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 (TTL)	60.8 – 62.8mm		
Back focal length (BFL)	7.8mm		
Chief ray angle (CRA)	< 15°		
Temperature range	-20C to 60C		
Weight	63g	58g	
Iris cable length	30cm	N/A	

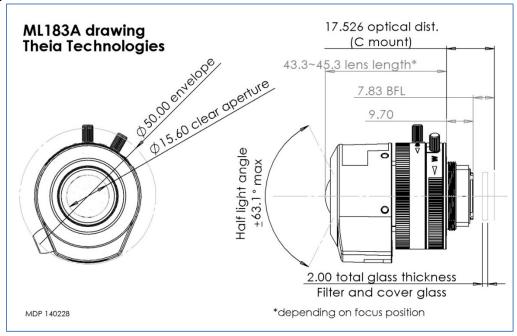
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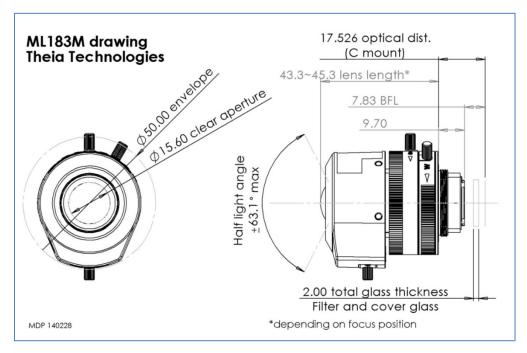
Fields of view

Sensor size Field of view (H) Field of view (V) Field of view (D)

1/3"	1/2.7" HD	1/2.5"
105° - 77°	111° - 84°	115° - 88°
90° - 62°	95° - 68°	99° - 71°
117° - 90°	123° - 96°	126° - 100°

Lens drawings





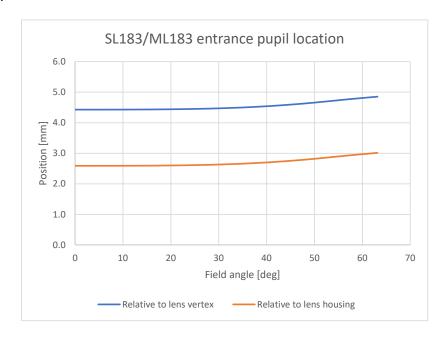


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Entrance pupil location

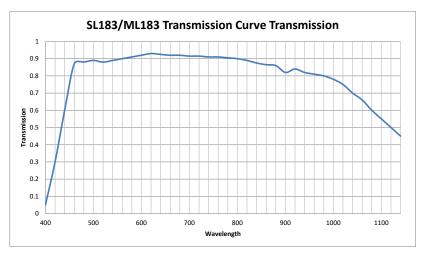
The entrance pupil location is inside the lens. The first lens element vertex or the lens plastic can be used as a reference to find the location.

Field	Rel to	Rel to
Angle	lens	lens
(Deg)	vertex	housing
0	4.43	2.59
6	4.43	2.59
13	4.43	2.59
19	4.44	2.60
25	4.45	2.61
32	4.48	2.64
38	4.52	2.68
44	4.58	2.74
51	4.67	2.83
57	4.77	2.93
63	4.85	3.01



Lens transmission

Long transmission		
Wavelength	Transmission	
420	0.3	
440	0.6	
460	0.87	
500	0.89	
540	0.89	
580	0.91	
620	0.93	
660	0.92	
700	0.915	
740	0.91	
780	0.905	
820	0.89	
860	0.865	
900	0.82	
940	0.82	
980	0.8	



For more information, contact

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Revisions

Version	Change	Reason
200106	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)



