

## Theia TECHNOLOGIES



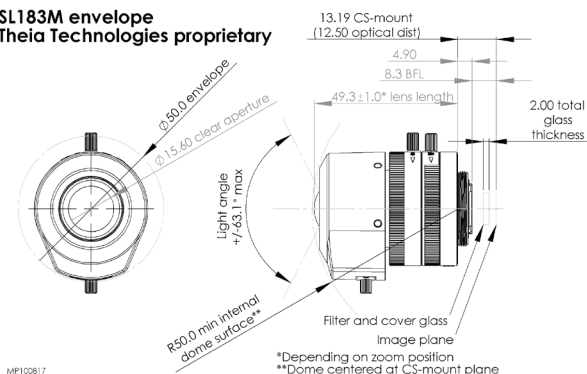
The Theia Technologies 1.8 - 3mm CS-mount Varifocal lens achieves 105° - 77° horizontal angle of view on a 1/3" sensor using patented Linear Optical Technology® to achieve an ultra-wide field of view with **ULTRA LOW DISTORTION (<1% barrel)**.

The superior quality of this lens will support sensor technology up to 5 megapixels resolution. It combines stunning performance with the highest build quality. This lens is also available in DC auto-iris SL183-A.

We think that it is perfect for use with our miniature High Definition camera systems including:

- SeeSense IK-HR1P CS-mount version of the Toshiba IK-HR1S 1/3" 1-CMOS camera
- SeeSense SS-W-HD1080P 1/3" 1-CMOS camera

SL183M envelope  
Theia Technologies proprietary



\*Depending on zoom position  
\*\*Dome centered at CS-mount plane

Please contact SeeSense for further details of C and CS-mount lenses we offer:

[www.seesense.eu](http://www.seesense.eu) [nigel@seesense.eu](mailto:nigel@seesense.eu)

### Features:

- Full High Definition 5MP **1.8 - 3mm lens**
- **ULTRA LOW DISTORTION**
- Integrates with 1/3" 1-CCD / CMOS HD cameras
- Manual iris and focus
- Easy Zoom™ for simple zoom focus
- Robust, precise mechanics
- Weight 61 grammes
- **N.B. Uses Linear Optical Technology®**  
**Please note that the image will be inverted** (mount camera upside down or invert image electronically)

### Applications:

- Security
- Broadcast
- Machine Vision / Factory Automation

### Specification:

Focal Length	1.8 - 3mm Varifocal
Image Format	1/3" (also 1/2.5" and 1/2.5")
Image Size	Ø 6.0mm (5.23mm x 2.94mm)
Maximum Aperture	F1.8
Aperture Range	F1.8 - Close (no detente)
Angle of View (H x V)	105° - 77° x 90° - 62° (1/3" sensor)
Focussing Range	∞ - 0.5m
Back Focus	None
Minimum Object Distance	0.5m
Pan Focus Distance	2m - ∞
Modular Transfer Function	MTF of 140 lp/mm @ >20%
Resolution	Up to 5 megapixels
Distortion	<1% barrel at image edge (for 1/3" sensor)
I/R Correction	"Day/Night"
Flange Focal Length	12.5mm (in air)
Locking Screws	On focus and iris
Mount	CS-mount (metal)
Weight (g)	61 grammes
Dimensions	50mm (Diameter) x 49mm (Length)
Temperature	Operating -20°C to +50°C Storage -20°C to +60°C

Sensor Size	1/3"	1/2.7" (HD)	1/2.5"
Field of View (horizontal)	105° - 77°	116° - 89°	115° - 88°
Field of View (vertical)	90° - 62°	84° - 57°	99° - 71°
Field of View (diagonal)	117° - 79°	123° - 96°	126° - 100°