

**Theia**  
TECHNOLOGIES



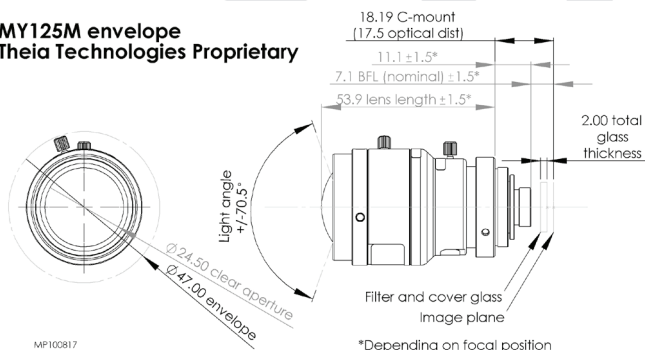
**The Theia Technologies 1.28mm C-mount lens achieves 125° horizontal angle of view on a 1/3" sensor using patented Linear Optical Technology® to achieve an ultra-wide field of view with ULTRA LOW DISTORTION (<3% barrel).**

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 CS-mount SY125-M and DC auto-iris SY125-A.

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

- Toshiba IK-HR1S 1/3" 1-CMOS camera
- Pacific Corporation VPC- HD20 1/3" 1-CMOS camera
- SeeSense SS-W-HD1080P 1/3" 1-CMOS camera

**MY125M envelope**  
Theia Technologies Proprietary



### Features:

- Full High Definition 5MP **1.28mm lens**
- **ULTRA LOW DISTORTION**
- Integrates with 1/3" 1-CCD / CMOS HD cameras
- Manual iris and focus
- Back focus adjustment feature
- Robust, precise mechanics
- Weight 98 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	1.28mm
Image Format	1/3" (also 1/2.5" with slight vignetting)
Image Size	Ø 6.0mm (5.23mm x 2.94mm)
Maximum Aperture	F1.8
Aperture Range	F1.8 - Close (no detente)
Angle of View (HxV)	125° x 109° (1/3" sensor)
Focussing Range	∞ - 0.5m (0.1m by adjusting back focus)
Back Focus	Adjustable
Minimum Object Distance	0.1m (by adjusting back focus)
Pan Focus Distance	0.5m - ∞
Modular Transfer Function	200 lp/mm centre, 140 lp/mm @ >20% edge
Resolution	Up to 5 megapixel
Distortion	<3% barrel at image edge (for 1/3" sensor)
Flange Focal Length	17.526mm (in air)
Locking Screws	On focus and iris
Mount	C-mount (metal)
Weight (g)	98 grammes
Dimensions	36mm (Diameter) x 54mm (Length)
Temperature	Operating -20°C to +50°C Storage -20°C to +60°C

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)

Sensor Size	1/4"	1/3"	1/2.5"*
Field of View (horizontal)	109°	125°	135°
Field of View (vertical)	93°	109°	119°
Field of View (diagonal)	122°	137°	141°

\* Risk of slight vignetting

Rev: 2.025.0114 E.&O.E.