

Theia
TECHNOLOGIES



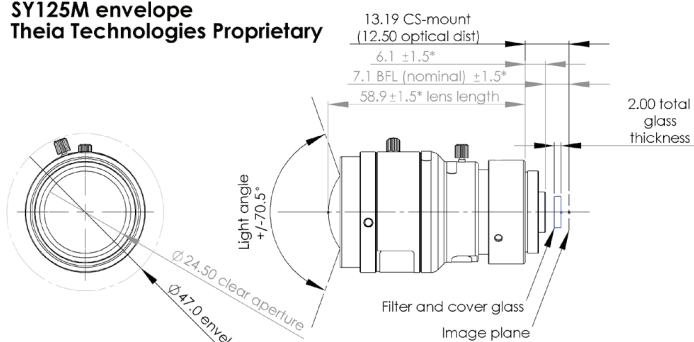
The Theia Technologies 1.28mm CS-mount lens achieves 125° horizontal angle of view on a 1/3" sensor using patented Linear Optical Technology® to achieve an ultra-wide field of view with ULTRA LOW DISTORTION (<3% barrel).

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 C-mount MY125-M and DC auto-iris SY125-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

SY125M envelope
Theia Technologies Proprietary



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

www.seesense.eu nigel@seesense.eu

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 113 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	12.5mm (in air)
Locking Screws	On focus and iris
Mount	CS-mount (metal)
Weight (g)	113 grammes
Dimensions	36mm (Diameter) x 59mm (Length)
Temperature	Operating -20°C to +50°C Storage -20°C to +60°C

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

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