



4K Telephoto lenses



Theia's telephoto lenses provides a combination of features rarely found in other lenses available on the market. Both series are high performance megapixel and **4K resolution** lenses providing the sharpest image with maximum detail. They both feature **compact size** with excellent IR correction for use with **Day/Night** cameras.

SL940 at 9mm



SL940 at 40mm



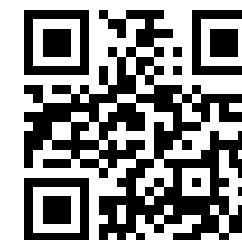
- Theia's telephoto lenses are IR corrected for use with true **Day/Night** cameras. IR and visible light will be focused to a common plane allowing the best image quality during day and night without the need to refocus the camera.
- The lenses support **4K resolution** cameras with a crisp image from center to edge and throughout the optical zoom range.
- The -940 and -1250 series lenses are some of the **shortest** megapixel lenses available at telephoto focal lengths. As a bonus, the lens is IR corrected, a feature rarely found in other telephoto megapixel lenses even those with longer physical length.
- Designed for **CS-mount** cameras. The -940 series is compatible with 1/3", 1/2.7" HD, 1/2.5" and 1/2.3" 4K format sensors. The -1250 series includes 1/1.8", and 1/1.7" 4K format sensors as well.
- Also available in motorized and board mount versions.



Lens models	SL940A	SL940P	SL940M	SL1250A	SL1250P
Iris type	Auto-iris	P-iris	Manual	Auto-iris	P-iris
Mount type	CS	CS	CS	CS	CS
Focal length	9-40mm			12-50mm	
Sensor sizes	up to 1/2.3"			up to 1/1.7"	
Field of view	Varifocal 39° - 9° on 1/2.3" sensor			Varifocal 36° - 8° on 1/1.7" sensor 30° - 7° on 1/2.3" sensor	
Resolution	4K compatible (5MP)			True 4K (12MP)	
F/#	F/1.5 to close			F/1.8 to close	
IR Correction	Day/Night			Day/Night	
Lens length	50mm			52mm	



4K and Megapixel Lenses



Theia's family of **Ultra wide field of view** megapixel lenses use our patented Linear Optical Technology® to optically correct barrel distortion without the use of de-warping software. The lenses provide the widest field of view available without distortion while keeping straight lines straight. The ultra wide field of view requires fewer cameras to cover large areas and provides greater situational awareness for the viewer.

Theia's lens using Linear Optical Technology®



Typical wide angle lens



- Theia's SL183 series of varifocal lenses includes **EasyZoom™** which allows the installer to optimize the field of view with minimal need for refocus.
- Theia's high quality lenses are compatible with cameras **up to 4K** resolution enabling the installer to take advantage of all the pixels megapixel cameras have to offer.
- The -110 and -183 series lenses are IR corrected for use with true **Day/Night** cameras. Light from LED illuminators focuses to the same plane as visible light allowing the highest image quality at night without the need to refocus the camera.
- The -125 series offers the **widest field of view** available, up to 135°, without barrel distortion.
- All lenses are designed for **CS-mount** or **C-mount** cameras with image sensor sizes 1/3", 1/2.7" HD, and 1/2.5". The -183 series is also compatible with 1/2.3" 4K format sensors.



Lens models	SY125A/M	MY125M	MY125M-E*	SY110A/M	MY110A/M	SL183A/M	ML183A/M	MY23F
Iris types	DC Auto/Manual	Manual	Manual	DC Auto/Manual	Manual	DC Auto/Manual	DC Auto/Manual	Fixed
Mount type	CS	C	C	CS	C	CS	C	C/M12
Focal length	1.28mm			1.67mm		1.8-3.0mm		2.3mm
Largest Sensor	1/2.5"			1/2.5"		1/2.3"		1/1.8"
Field of view	Fixed up to 135°			Fixed up to 120°		Varifocal 115° - 88°		116°
Resolution	200 lp/mm			160 lp/mm		200 lp/mm		200 lp/mm
Focus Range	10cm to ∞			20cm to ∞		30cm to ∞		50cm to ∞
Distortion	<3%			<1%		<1%		<1%
F/#	F/1.8 to close			F/1.8 to close		F/1.8 to close		F/2.2
IR Correction	No			435 - 940nm		435-940nm		435 - 940nm
Lens length to mount	58.9mm	53.9mm	55mm	56mm	51mm	49.3mm	44.3mm	44mm
FMT 3555 Compatible	No**			Yes		No**		Yes

* MY125M-E ruggedized version

Theia's standard focal range lens includes **true 4K** (12MP) resolution, excellent IR correction for use with **Day/Night** cameras, and **compact size** for a very high performance lens. The small size allows the lens to be used in small enclosures such as dome & bullet cameras (with interchangeable lenses). The -410 series lenses have an easy to use focus adjustment ring for simple and precise focusing from 0.5m to infinity.

- Theia's -410 series lenses are IR corrected for use with true **Day/Night** cameras. IR and visible light will be focused to a common plane allowing the best image quality during day and night without the need to refocus the camera.
- The -410 series lenses are very bright (**fast F/1.4**) and have great performance in low light scenes. The lenses can be used with WDR cameras without creating distracting ghost images.
- The lenses support cameras with up to **4K (12MP) resolution** using both the smaller 1/2.3" sensors and the larger 1/1.7" sensors.
- The -410 series lenses are very **compact**, only 52mm from the mount, to fit into small enclosures.
- Designed for **CS-mount** or **C-mount** cameras with image sensor sizes from **1/2.3" up to 1/1.7"**.
- Available in manual, DC auto-iris, and Precise iris (P-iris) versions.
- Also available in motorized and board mount versions.

Picture at 10mm



Lens models	SL410A	SL410P	SL410M	ML410M
Iris type	Auto-iris	P-iris	Manual	Manual
Mount type	CS	CS	CS	C
Focal length	4-10mm			
Sensor sizes	Up to 1/1.7"			
Field of view	Varifocal 112° - 44° on 1/1.7" sensor 90° - 36° on 1/2.3" sensor			
Resolution	True 4K (12MP)			
F/#	F/1.4 to close			
IR Correction	Day/Night			
Lens length	52mm			