





Theia Telephoto Lenses for ITS/LPR/ANPR Applications

- ✓ High resolution for **HD, 5MP & 4K** cameras, up to 12.4 MP (300 lp/mm & 1.55µ pixels)
- ✓ Available in DC Autoiris, P-iris, and Manual iris versions
- ✓ Fully motorized "TL" versions available with combinations of zoom, focus, iris motors
- ✓ Optional MCR IQ™ Motor Control Board also available for motorized lenses
- ✓ NIR bandpass and notch filters available on some models

- ✓ Excellent **NIR correction** (440 to 940nm) for **Day/Night** cameras with IR illuminators
- ✓ **Light weight & Compact design** to fit into domes as small as 4" mini-dome size
- ✓ CS-mount and smooth D25 board mount options
- ✓ Used for sensor sizes 1/3", 1/2.3", 1/2.5" and up to 1/1.7"



Lens models	SL940A & TL936A	SL940P & TL936P	SL940M	SL1250A & TL1250A	SL1250P & TL1250P [1]
Iris type	Auto-iris	P-iris	Manual	Auto-iris	P-iris
Mount type [2]	CS	CS	CS	CS	CS
Focal length	9-40mm, 9-36mm for TL936 motorized lens			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, 36° - 9° for TL936 motorized lens		ser	- 8° on 1/1.7" nsor 1/2.3" sensor	
Resolution	4K compatible (5+MP)		True 4K	(12MP)	
Focus range [3]	2m to ∞		2m	to ∞	
F/#	F/1.5 to close		F/1.8 t	o close	
IR Correction	Day/Night		Day/	Night	
Lens length	50mm		52ı	mm	

1.SL1250 lenses also available in manual iris. 2.Motorized lenses also available in D25 25mm diameter smooth board mount. 3.MOD may be shortened with extenders.

IR Cut/ Selectable Optical Filter Specifications for N4, R4, N6, R6 lens versions

Electrical specifications	
Drive	DC
Operating voltage	4.0V
Maximum switching	300ms
time	
Drive coil resistance	130Ω
Connector type	Housing: Molex 51021-0200
,,	Terminal: Molex 50058-8000
Cable length	150mm

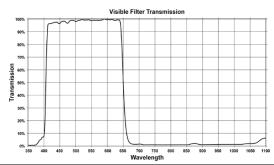
Mode	Pin 1	Pin 2
Filter 1	L	Н
Filter 2	Н	L
Wire color	Red	Black



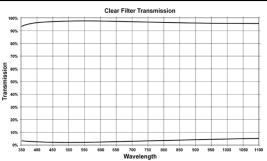
Filter optical specifications

The lens has 2 internal optical filters which can be selected electronically.

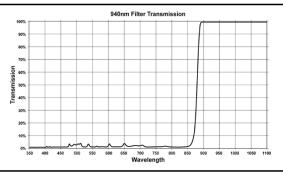
Visible bandpass filte	r
Type	Visible transmission notch
	filter
Spectrum	405 +/- 10nm: T = 50%
1 .	420 – 600nm: T >= 93% ave
	650 +/- 10nm: T = 50%
	700 – 1000nm: T < 5% max
	1000 – 1100nm: T < 10%
	ave



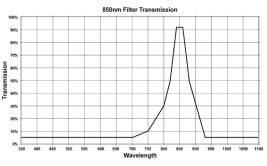
Clear glass filter	
Type	AR coated clear glass
Spectrum	400 – 650nm: t >= 95%
	650 – 1050nm: t >- 93.5%



Long pass filter for 940nm illumination		
Type	Long wave pass filter for	
	940nm illumination	
Spectrum	400 nm – 840 nm: T <= 5%	
1	880 +/- 10 nm: T = 50%	
	900 nm – 980 nm: T => 95%	



IR bandpass filter for 850nm illumination		
Туре	Notch filter for 850nm	
	illumination	
Spectrum	400-700nm : T < 5% ave	
	820 +/- 10nm: T=50%	
	850nm: T >= 93%	
	880 +/- 10nm: T = 50%	
	900-1050 : T < 5% ave	



Other wavelength filters may be possible; please contact us for more information.

