



ML610M Varifocal 4K NIR 2/3" Lens

ML610M specifications

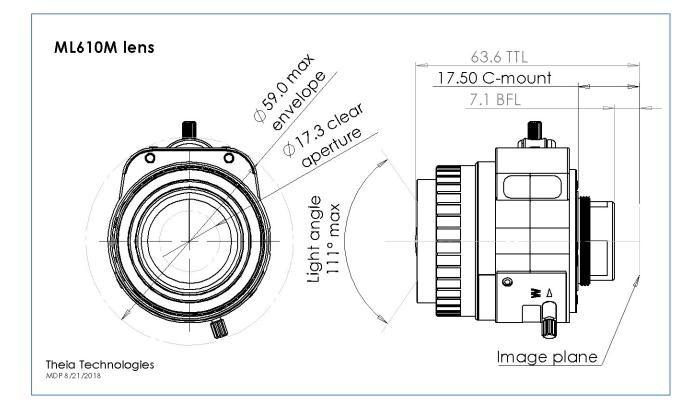
- ✓ Ultra-high resolution for 4K cameras, up to 12 megapixel for pixels as small as 1.55µm
- ✓ Variable focal length covering fields of view of 6mm, 8mm, and 10mm prime lenses
- ✓ Locking focus, zoom, and iris thumbscrews
- Resistant to vibration of 20-200Hz at 10G/axis
- ✓ IR corrected 440nm-940nm for true Day/Night cameras & multispectral imaging
- ✓ Compact, lightweight design to fit into small space requirements
- ✓ Ideal for sensor sizes up to 2/3" including, 1/1.7", 1/1.8", 1/2" and as small as 1/2.3"

$p^{2}(2) = 1$	3
" (N)=1 =	

Mount type	C-mount		
Iris type	Manual iris		
Focal length	6-10mm		
Image circle	Ø11.0mm		
Resolution	12.4 megapixel		
	300 lp/mm at image center		
	150 lp/mm at 55% image height		
F/#	F/1.6 @ 6mm – F/2.4 @ 10mm		
Distortion	Max 37% - 11% barrel distortion @ 6mm – 10mm		
Relative illumination	>57% (corner) @ 6mm		
Entrance pupil location	13.44mm at 6mm		
(from front plastic housing)	14.71mm at 7mm		
	15.55mm at 10mm		
Minimum object distance	50cm (may be shortened with extender)		
Focus range	0.5m to infinity		
IR correction	440-940nm		
Lens length	< 64mm TTL		
Weight	70g		
Filter thread	M55x0.75 (with optional adapter)		
Operating temperature	 -20C to 60C (<70% humidity, non-condensing) 		
Storage temperature	-30C to 70C (<90% humidity, non-condensing)		

Sensor size	2/3"	1/1.7"	1/2.5"
Horizontal	87° - 51°	74° - 44°	55° - 33°
Vertical	64° - 38°	55° - 33°	41° - 25°
Diagonal	111° - 64°	93° - 55°	70° - 42°





Environmental robustness

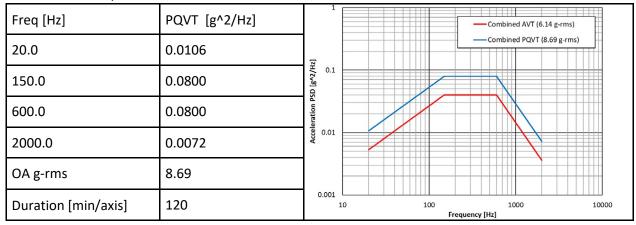
Vibration/shock specification test 1

Machine vision lens specification

Vibration	Sweep vibration 20Hz to 200Hz to 20Hz at acceleration 10G, 30 minutes per axis
Shock	Acceleration 38G, half amplitude 6ms, 6 times in axis perpendicular to optical axis

Vibration specification test 2

NASA ATB PQVT specification



For more information contact Theia Technologies

info@TheiaTech.com +1-503-570-3296

