TECHSPEC[®] IR-CUT BLUE SERIES M12 IMAGING LENSES #35-466 • 2mm • f/4.0

TECHSPEC[®] Blue Series M12 Imaging Lenses feature high resolution performance, along with the same great versatility of our TECHSPEC[®] Green Series M12 Imaging Lenses. Each lens consists of several precision glass elements mounted in a compact, aluminum housing. TECHSPEC[®] Blue Series M12 Imaging Lenses are ideal for automotive, industrial, and medical imaging application.



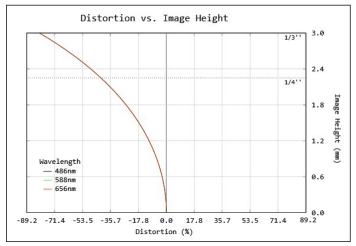
Focal Length:	2mm			
Working Distance ¹ :	100mm - ∞			
Max. Sensor Format:	1/3"			
Camera Mount:	M12			
Aperture (f/#):	f/4.0			
Distortion %2:	<81.23%			
Object Space NA3:	0.002447			

Magnification Range:	0X - 0.020X			
Туре:	M12 Lens			
Length:	21.7mm			
Weight:	9g			
RoHS:	Compliant			
Number of Elements (Groups):	6 (5)			
AR Coating:	400-700nm MgF ₂			

1. From front housing 2. At 750mm W.D. 3. At Minimum W.D.

At Minimum W.D. (100mm)								
Sensor Size	1/4"	1/3"	1/2.5"	1/2"	1/1.8"	2/3"	1"	
Field Of View⁴	248.7mm - 100.4°	476.0mm - 133.3°	N/A	N/A	N/A	N/A	N/A	

4. Horizontal FOV on Standard (4:3) sensor format. Min W.D.



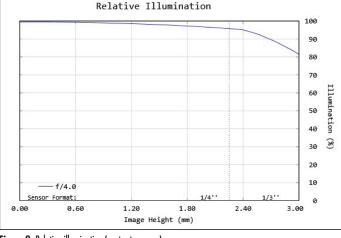


Figure 1: Distortion at the maximum sensor format. Positive values correspond to pincushion distortion, negative values correspond to barrel distortion.

Figure 2: Relative illumination (center to corner)

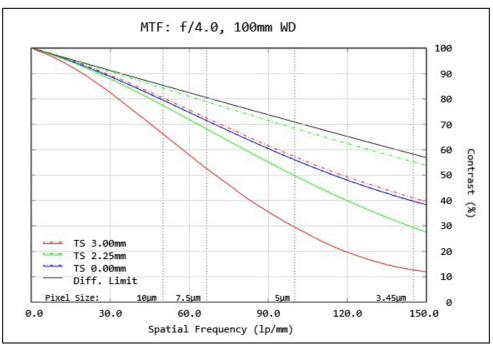
In both plots, field points corresponding to the image circle of common sensor formats are included. Plots represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

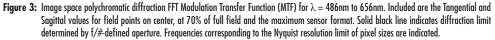


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MTF & DOF: f/4.0 WD: 100mm HORIZONTAL FOV: 478mm







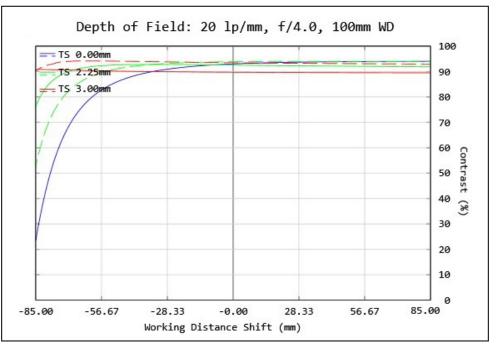


Figure 4: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

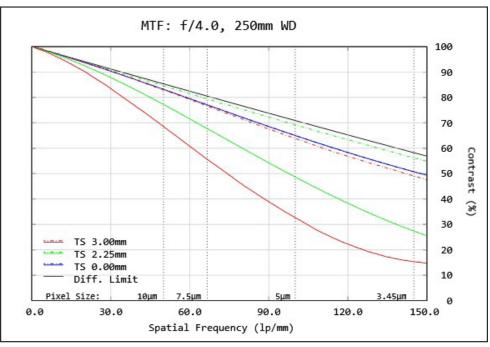
Plots represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

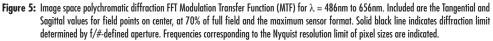


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MTF & DOF: f/4.0 WD: 250mm HORIZONTAL FOV: 1173mm







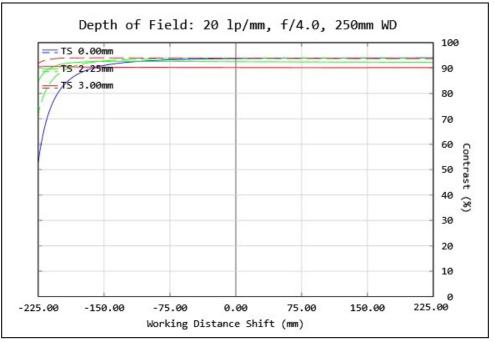


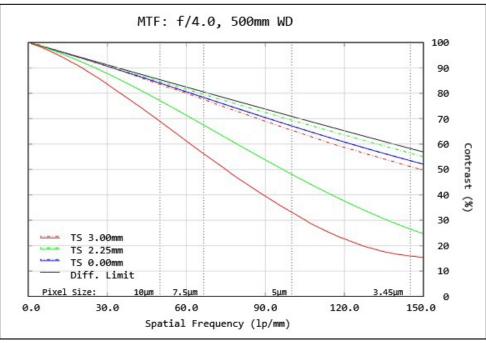
Figure 6: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

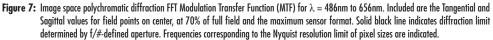
Plots represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.



MTF & DOF: f/4.0 WD: 500mm HORIZONTAL FOV: 2331mm







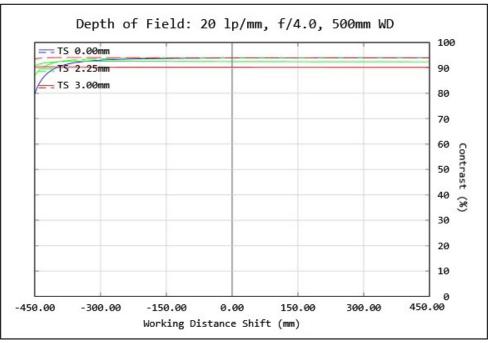


Figure 8: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

Plots represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

