#63-782 • 25mm FL • f/1.8 PRIMARY WD: 1500mm - ∞

Our TECHSPEC® High Resolution 5 Megapixel Fixed Focal Length Lenses are available in multiple focal lengths and feature multiple versions to optimize for different working distance ranges. Perfect for use on high-end 5 megapixel sensors that require 145 lp/mm resolution, these lenses offer an attractive price-to-performance ratio. All lenses feature locking focus and iris rings and a front filter thread to allow the use of standard optical filters, for increased versatility.



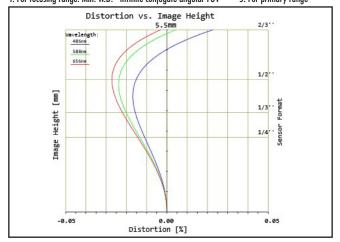
Focal Length:	25mm			
Minimum Working Distance <sup>1</sup> :	200mm			
Focus Range¹:	200mm - ∞			
Primary Working Distance Range:	1500mm - ∞			
Length at Near Focus:	40.1mm			
Length at Far Focus:	34.4mm			
Filter Thread:	M25.5 x 0.5			
Maximum Rear Protrusion:	2.8mm			
Camera Mount:	C-Mount			

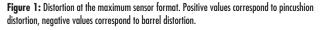
Maximum Sensor Format:	2/3"			
Aperture (f/#) (lockable):	f/1.8 - f/22			
Magnification Range:	0X - 0.12X			
Distortion <sup>2</sup> :	<0.5%			
Object Space NA <sup>2</sup> :	0.03			
Number of Elements (Groups):	9 (6)			
AR Coating:	425 - 675nm BBAR			
Weight:	96g			

Sensor Size	1/4"	1/3"	1/2.5"	1/2"	1/1.8"	2/3"	Sony ¾"	1"
Field of View <sup>3, 4</sup>	31.4mm - 8.33°	41.9mm - 11.1°	49.8mm - 13.1°	55.9mm - 14.8°	62.9mm - 16.6°	77.0mm - 20.2°	73.9mm - 19.4°	N/A
Field of View <sup>3, 5</sup>	221.1mm - 8.33°	294.9mm - 11.1°	350.2mm - 13.1°	393.2mm - 14.8°	442.4mm - 16.6°	540.7mm - 20.2°	519.0mm - 19.4°	N/A

1. From front of housing 2. At 200mm W.D. 3. Horizontal FOV on standard 4:3 sensor format 4. For focusing range: Min. W.D. - infinite conjugate angular FOV 5. For primary range

Specifications subject to change





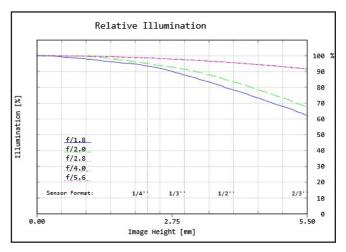


Figure 2: Relative illumination (center to corner)

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/2.8 WD: 2000mm

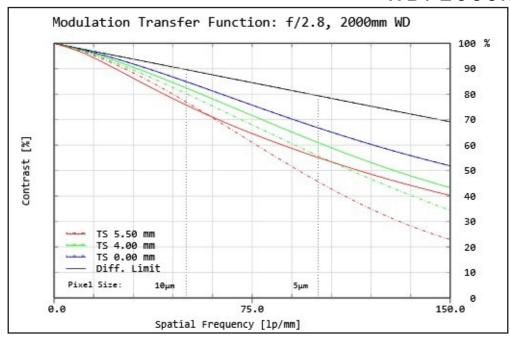


Figure 3: Image space polychromatic diffraction FFT Modulation Transfer Function (MTF) for  $\lambda = 486$ nm to 656nm. Included are Tangential and Sagittal values for field points on center, at 70% of full field and at the maximum sensor format. Solid black line indicates diffraction limit determined by f/#-defined aperture. Frequencies corresponding to the Nyquist resolution limit of pixel sizes are indicated.

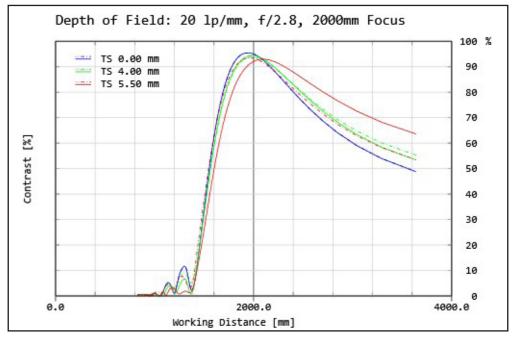


Figure 4: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.



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MTF & DOF: f/4.0 WD: 2000mm

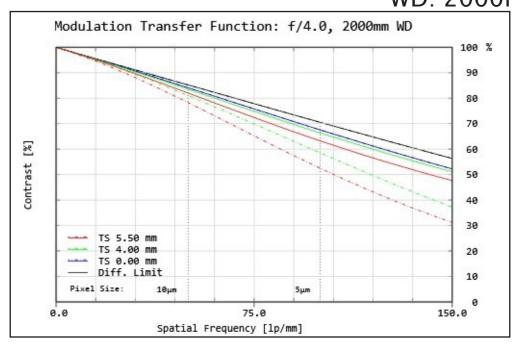


Figure 5: Image space polychromatic diffraction FFT Modulation Transfer Function (MTF) for  $\lambda = 486$ nm to 656nm. Included are Tangential and Sagittal values for field points on center, at 70% of full field and at the maximum sensor format. Solid black line indicates diffraction limit determined by f/#-defined aperture. Frequencies corresponding to the Nyquist resolution limit of pixel sizes are indicated.

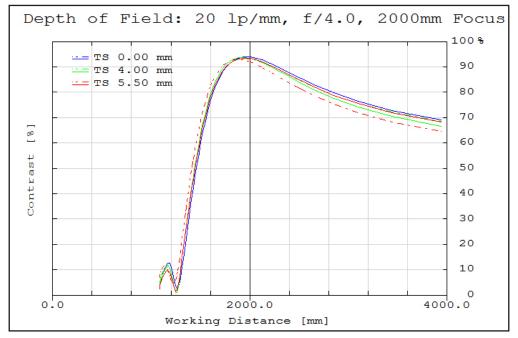


Figure 6: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.



#63-782 • 25mm FL • f/1.8 PRIMARY WD: 1500mm - ∞

MTF & DOF: f/2.8 WD: 5000mm

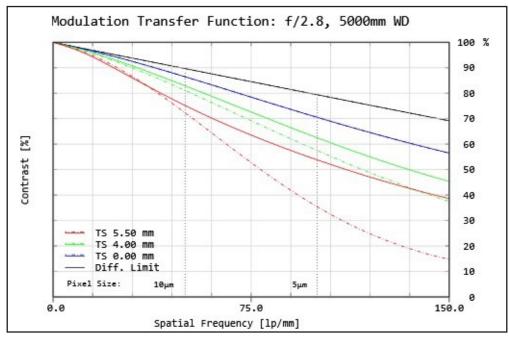


Figure 7: Image space polychromatic diffraction FFT Modulation Transfer Function (MTF) for  $\lambda = 486$ nm to 656nm. Included are Tangential and Sagittal values for field points on center, at 70% of full field and at the maximum sensor format. Solid black line indicates diffraction limit determined by f/#-defined aperture. Frequencies corresponding to the Nyquist resolution limit of pixel sizes are indicated.

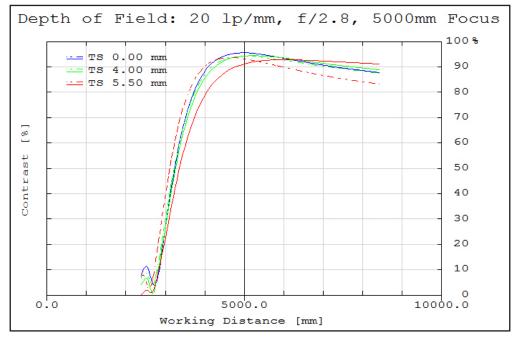


Figure 8: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.



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MTF & DOF: f/4.0 WD: 5000mm

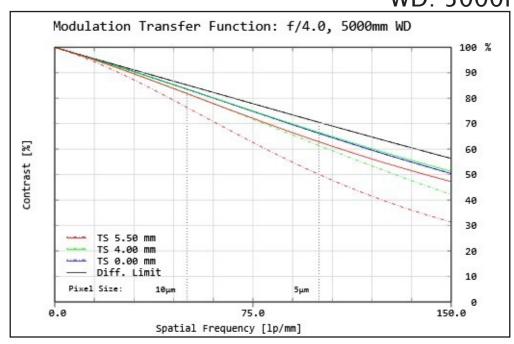


Figure 9: Image space polychromatic diffraction FFT Modulation Transfer Function (MTF) for  $\lambda = 486$ nm to 656nm. Included are Tangential and Sagittal values for field points on center, at 70% of full field and at the maximum sensor format. Solid black line indicates diffraction limit determined by f/#-defined aperture. Frequencies corresponding to the Nyquist resolution limit of pixel sizes are indicated.

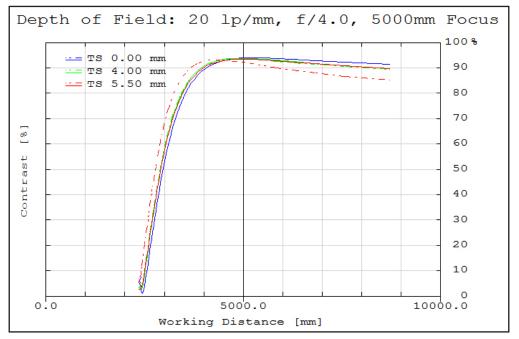


Figure 10: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

