TECHSPEC[®] Cr SERIES FIXED FOCAL LENGTH LENSES #35-168 • 16mm • f/8.0

TECHSPEC[®] Compact Ruggedized (Cr) Series Fixed Focal Length Lenses are Stability Ruggedized, protecting the lens from damage, while reducing pixel shift and maintaining optical pointing stability after shock and vibration. Each lens consists of several precision glass optics that are glued in place inside a compact, aluminum housing. Gluing the glass optics prevents even the smallest movements that often cause pixel shift.



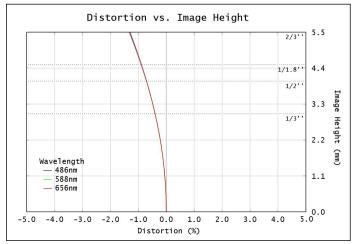
Focal Length:	16mm		
Working Distance ¹ :	98mm - ∞		
Max. Sensor Format:	2/3"		
Camera Mount:	C-Mount		
Aperture (f/#):	f/8.0		
Distortion %2:	<1.32%		
Object Space NA ² :	0.008244		

Magnification Range:	OX - 0.149X			
Туре:	Fixed Focal Length Lens			
Length:	38.78mm			
Weight:	67g			
RoHS:	Compliant			
Stability Ruggedized:	<1 µm pixel shift at 50 G			
Number of Elements (Groups):	7(6)			
AR Coating:	425 - 675nm BBAR			

1. From front housing 2. At Minimum W.D.

At Minimum W.D. (98mm)									
Sensor Size	1/4"	1/3"	1/2.5"	1/2"	1/1.8"	2/3"	1"	4/3"	
Field Of View ³	24.2mm - 12.9°	32 .4mm - 17.1°	39.2mm - 20.6°	43.3mm - 22.7°	48.8mm - 25.5°	59.8mm - 30.9°	N/A	N/A	

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



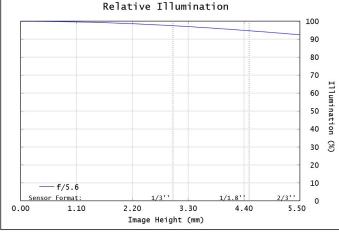


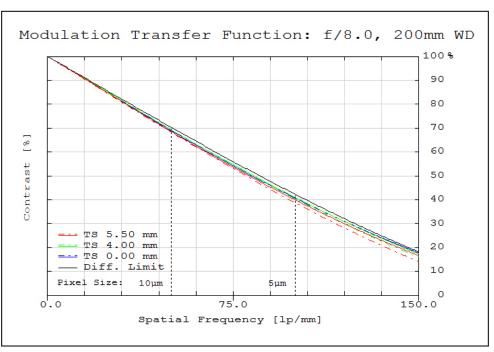
Figure 1: Distortion at the maximum sensor format. Positive values correspond to pincushion distortion, negative values correspond to barrel distortion. Figure 2: Relative illumination (center to corner)

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.

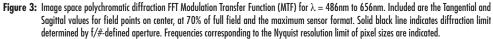


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MTF & DOF: f/8.0 WD: 200mm HORIZONTAL FOV: 116mm



BLIGO GNAL



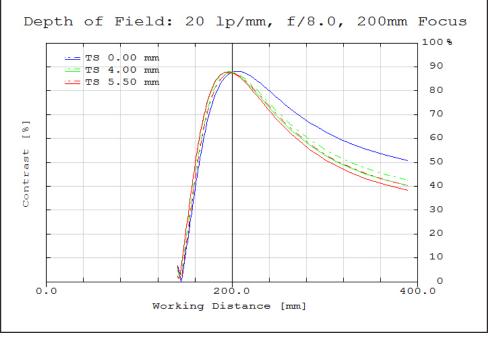
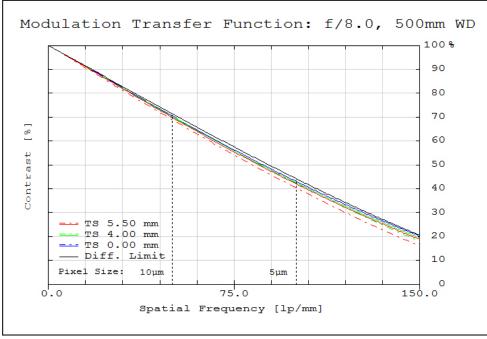


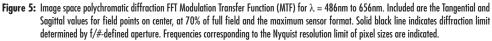
Figure 4: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

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









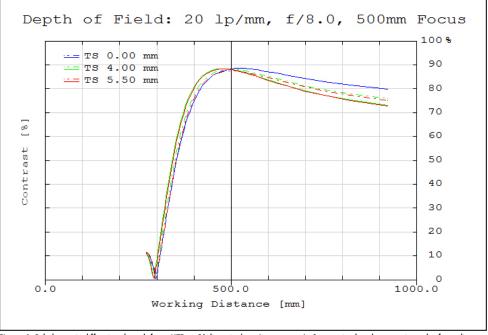


Figure 6: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

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