TECHSPEC[®] SilverTL[™] SERIES FIXED FOCAL LENGTH LENSES #88-346 • f/6 - f/22

TECHSPEC[®] SilverTL[™] Telecentric Lenses are ideal for both on-line and off-line machine vision production applications that require accurate measurements. These lenses combine high quality optics with a simplified non-focusing mechanical design and adjustable iris with a locking set screw.



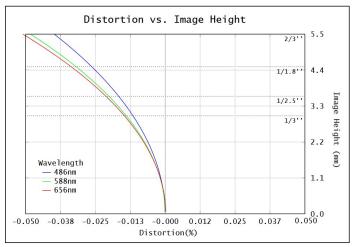
Primary Magnification:	0.75X 100mm ±0.8mm at f/10 (20% @ 20 lp/mm) 2/3" C-Mount f/6 - f/22		
Working Distance ¹ :			
Depth of Field ² :			
Max. Sensor Format:			
Camera Mount:			
Aperture (f/#):			
Distortion %:	<0.048%		
Object Space NA:	0.062		

Telecentricity:	<0.002°			
Туре:	Telecentric Lens			
Length:	155.2mm			
Front Diameter:	36mm 227g			
Weight:				
RoHS:	Compliant 7 (6) 425 - 675nm BBAR			
Number of Elements (Groups):				
AR Coating:				

1. From front housing 2. Image space MTF contrast

	At Minimum W.D. (100mm)						
Sensor Size	1/4"	1/3"	1/2.5"	1/2"	1/1.8"	2/3"	
Field Of View ³	4.8mm	6.4mm	7.7mm	8.5mm	9.6mm	11.8mm	

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



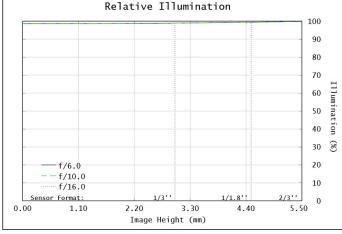


Figure 1: Distortion at the maximum sensor format. Positive values correspond to pincushion distortion, negative values correspond to barrel distortion.

Figure 2: Relative illumination (center to corner)

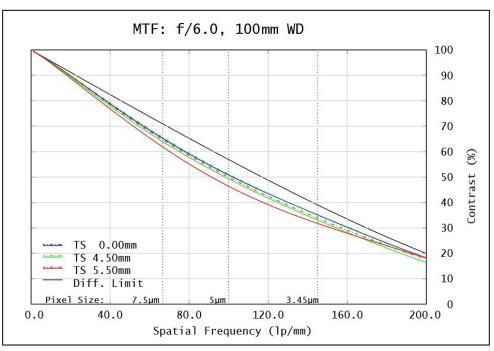
In both plots, field points corresponding to the image circle of common sensor formats are included. Plots represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

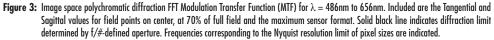


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MTF & DOF: f/6.0 WD: 150mm HORIZONTAL FOV: 202mm







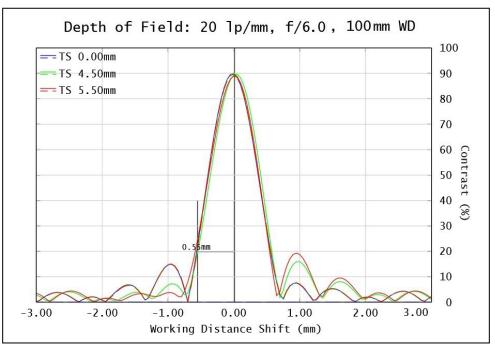


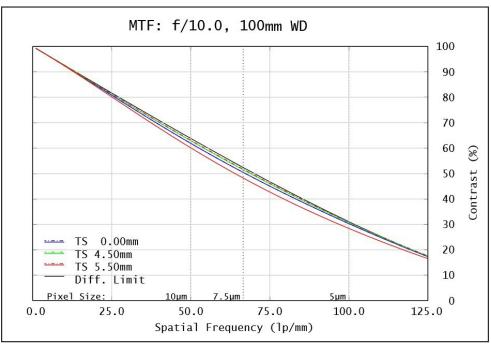
Figure 4: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

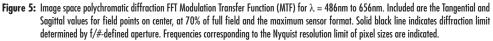
Plots represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.



MTF & DOF: f/10.0 WD: 600mm HORIZONTAL FOV: 717mm







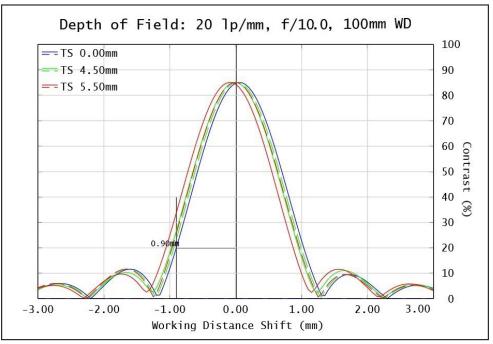


Figure 6: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

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

