## **TECHSPEC®** UCi SERIES FIXED FOCAL LENGTH LENSES #33-893 • 25mm • f/5.6

TECHSPEC<sup>®</sup> UCi Series Fixed Focal Length Lenses utilize the same optics as the TECHSPEC UC Series Lenses and feature 4K resolution. These lenses are designed for small pixels ≤2.2µm and offer a wide range of fixed apertures for a variety of applications. TECHSPEC<sup>®</sup> UCi Series Fixed Focal Length Lenses are ideal for OEM applications that require small, robust, and lightweight imaging solutions.



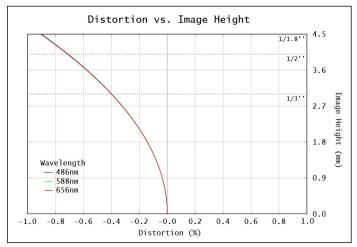
Focal Length:	25mm
Working Distance <sup>1</sup> :	200mm - ∞
Max. Sensor Format:	1/1.8"
Camera Mount:	C-Mount
Aperture (f/#):	f/5.6
Distortion %2:	<0.6%
Object Space NA <sup>2</sup> :	0.010109

Magnification Range:	0X - 0.119X			
Туре:	Fixed Focal Length Lens			
Length:	27.1mm			
Weight:	37g			
RoHS:	Compliant			
Number of Elements (Groups):	7 (5)			
AR Coating:	MgF <sub>2</sub> (400-700nm)			

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

Sensor Size 1/4" 1/3" 1/2.5" 1/2" 1/1.8" 2/3"   Field Of Visual 20 2mm 9.2° 40 4mm 11.0° 49 0mm 12.9° 54 0mm 14.4° N/A	At Minimum W.D. (200mm)								
<b>Eigl of Visual 20 2mm 9.2</b> 40.4mm 11.0° 49.0mm 12.2° 54.0mm 14.4° 40.9mm 14.4° N/A	Sensor Size	1/4"	1/3"	1/2.5"	1/2"	1/1.8"	2/3"		
<b>Field Of View</b> 30.3hth - 0.2 40.4hth - 11.0 40.5hth - 15.2 54.0hth - 14.0 00.0hth - 10.4 N/A	Field Of View <sup>3</sup>	30.3mm - 8.2°	40.4mm - 11.0°	48.9mm - 13.2°	54.0mm - 14.6°	60.8mm - 16.4°	N/A		

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



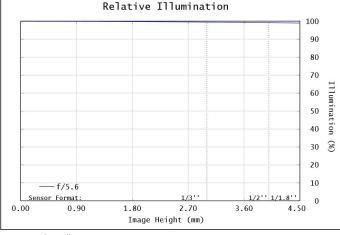


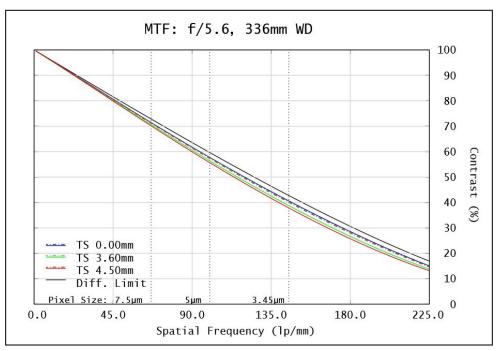
Figure 1: Distortion at the maximum sensor format. Positive values correspond to pincushion distortion, negative values correspond to barrel distortion.

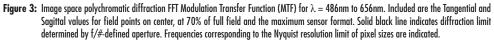
Figure 2: Relative illumination (center to corner)

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.



## MTF & DOF: f/5.6 WD: 336mm HORIZONTAL FOV: 100mm





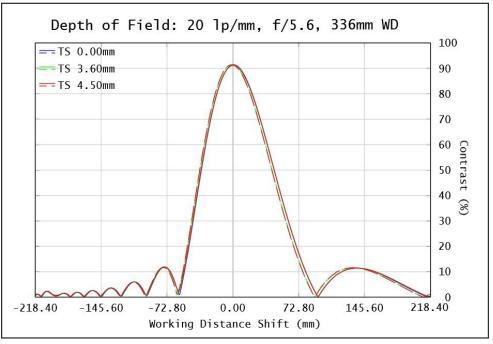
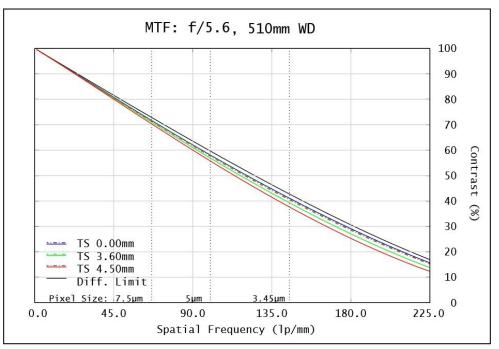


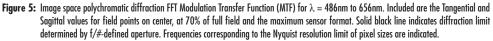
Figure 4: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

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



## MTF & DOF: f/5.6 WD: 510mm HORIZONTAL FOV: 150mm





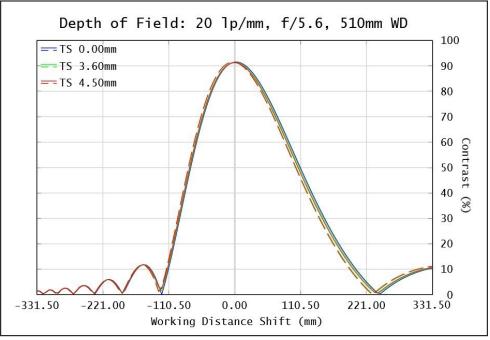


Figure 6: Polychromatic diffraction through-focus MTF at 20 linepairs/mm (image space). Contrast is plotted to two times the focus distance. Note object spatial frequency changes with working distance.

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

