

**TECHSPEC® 0.5X, 2/3" GoldTL™ Telecentric Lens**



#54-798 (0.5X)

Stock **#54-798** **14 In Stock**

⊖ 1 ⊕ **\$2,726<sup>00</sup>**

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Volume Pricing	
Qty 1+	<b>\$2,726.00</b> each
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**General**

GoldTL™ Series **Product Family:**

**Stock No. of Mounting Clamp:**  
#56-025 Sold Separately

Telecentric Lens **Type:**

Focusable Telecentric **Special Type of Lens:**

**Physical & Mechanical Properties**

Fixed	<b>Iris Option:</b>
150.00	<b>Length (mm):</b>
150.00	<b>Length excluding Threads (mm):</b>
65.00	<b>Maximum Diameter (mm):</b>
0.84	<b>Weight (kg):</b>

## Optical Properties

17.6mm	<b>Horizontal Field of View, 2/3" Sensor:</b>
14.4mm	<b>Horizontal Field of View, 1/1.8" Sensor:</b>
12.8mm	<b>Horizontal Field of View, 1/2" Sensor:</b>
9.00	<b>Maximum Image Circle (mm):</b>
0.042	<b>Numerical Aperture NA, Object Side:</b>
>55% @ 40 lp/mm	<b>Resolution, Image Space MTF @ f/10:</b>
8 (5)	<b>Number of Elements (Groups):</b>
<0.025	<b>Typical Telecentricity @ 588nm (°):</b>
0.015	<b>Typical Distortion @ 588nm (%):</b>
0.5X	<b>Primary Magnification PMAG:</b>
0.50	<b>Telecentric Lens Magnification:</b>
117 - 142	<b>Working Distance (mm):</b>
17.6 x 13.2	<b>FOV @ Max Sensor Format, H x V (mm):</b>
f/6 - f/25	<b>Aperture (f#):</b>
N4 MgF <sub>2</sub>	<b>Coating:</b>
±2.1 at f/10 (20% @ 20 lp/mm)	<b>Depth of Field (mm):</b>
0.5X	<b>Magnification:</b>
VIS	<b>Lens Wavelength Range:</b>

## Sensor

2/3"	<b>Maximum Sensor Format:</b>
2.74	<b>Pixel Size (µm):</b>

## Threading & Mounting

M58 x 0.75 (Female)	<b>Filter Thread:</b>
C-Mount	<b>Mount:</b>

## Regulatory Compliance

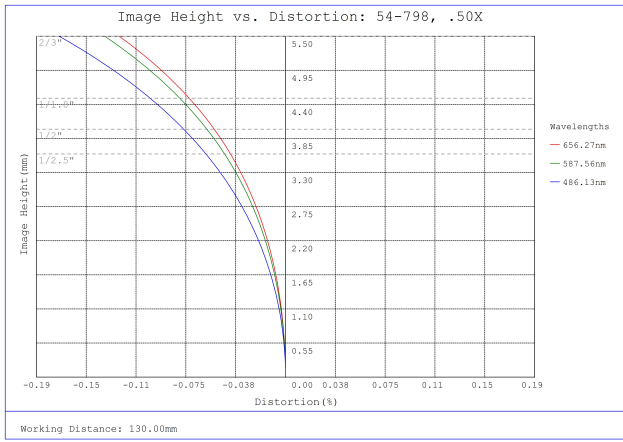
<a href="#">View</a>	<b>Certificate of Conformance:</b>
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## Product Details

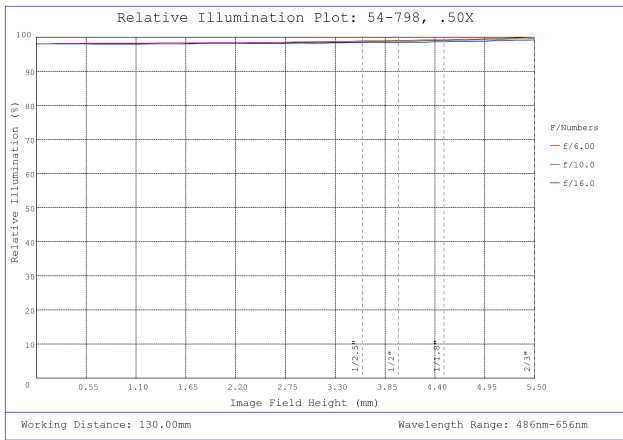
- High Resolution Telecentric Lens for Measurement and Gauging
- Up to 5 MegaPixels, 3.45µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.06X to 1X

TECHSPEC® GoldTL™ Telecentric Lenses were designed specifically for machine vision and metrology applications. The unique focusable design allows for working distance adjustment, while still providing <0.2° telecentricity. These lenses also feature high resolutions, low distortions, and are available for 1/2" or 2/3" sensors. TECHSPEC® GoldTL™ Telecentric Lenses have a front filter thread for easy integration of [color filters](#), [polarizers](#) or other mounted components. Both the iris and focusing adjustment positions can be fixed by set screws to remain secure in high vibration environments.

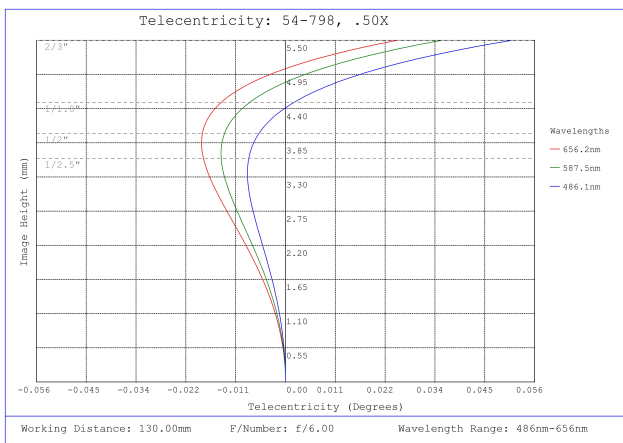
# Technical Information



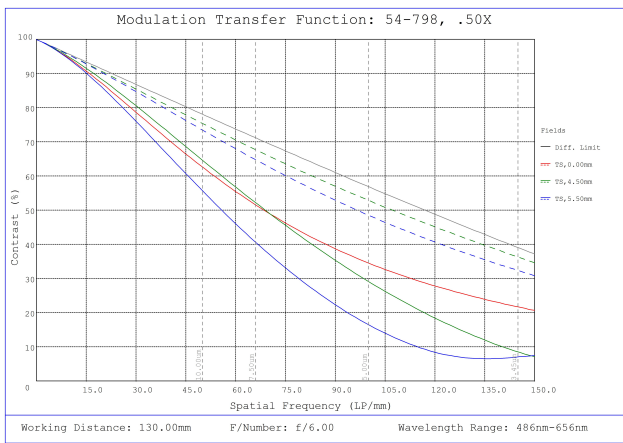
#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Distortion Plot



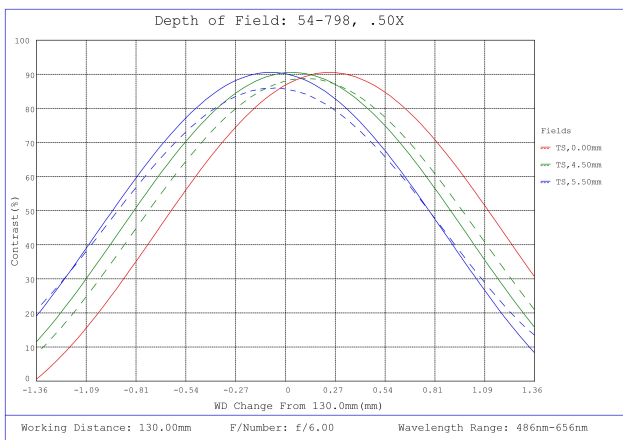
#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Relative Illumination Plot



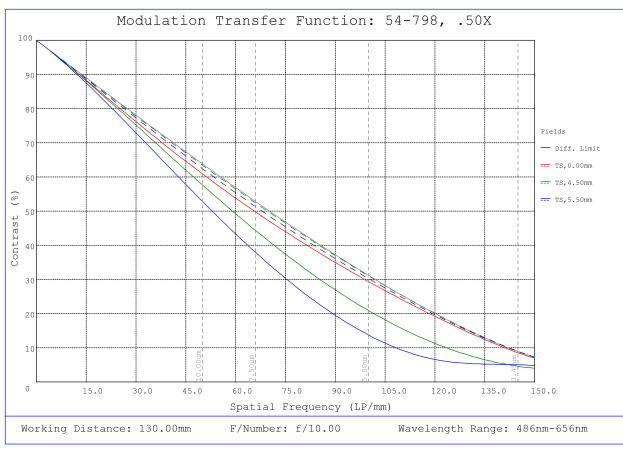
#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Telecentricity Plot



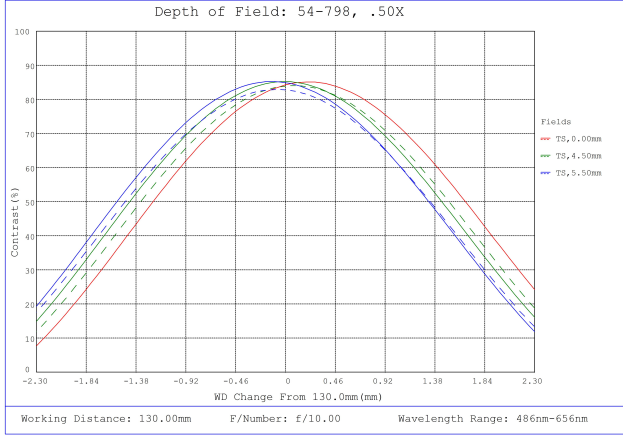
#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 130mm Working Distance, f6



#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Depth of Field Plot, 130mm Working Distance, f6



#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 130mm Working Distance, f10



#54-798, 0.5X 2/3" GoldTL™ Telecentric Lens, Depth of Field Plot, 130mm Working Distance, f10

Stock No.	A	B	C	D	E	F	G
#56-024	88mm	16mm	34mm	94mm	120mm	101.6mm	50mm
#56-025	85mm	17.5mm	32.5mm	91mm	120mm	101.6mm	48.5mm
#56-026	103mm	—	39.5mm	107mm	103mm	90mm	55.5mm
#56-027	134mm	—	55mm	148mm	134mm	122mm	81mm

