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**TECHSPEC® 0.08X GoldTL™ Telecentric Lens (Mount Included)**



0.06X GoldTL™ Telecentric Lens (Mount Included)



Stock #17-204 **4 In Stock**

⊖ 1 ⊕ €6.010<sup>00</sup>

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**General**

GoldTL™ Series **Product Family:**

#56-873, Included **Stock No. of Mounting Clamp:**

Telecentric Lens **Type:**

Special Type of Lens:  
Focusable Telecentric

## Physical & Mechanical Properties

Variable Iris Option:  
277.28 Length (mm):  
277.28 Length excluding Threads (mm):  
160.00 Maximum Diameter (mm):

## Optical Properties

107.1mm Horizontal Field of View, 2/3" Sensor:  
87.5mm Horizontal Field of View, 1/1.8" Sensor:  
77.8mm Horizontal Field of View, 1/2" Sensor:  
11.00 Maximum Image Circle (mm):  
0.0069 Numerical Aperture NA, Object Side:  
70.6 Resolution, Image Space MTF @ f/10:  
10 (6) Number of Elements (Groups):  
<0.0123 Typical Telecentricity @ 588nm (°):  
0.038 Typical Distortion @ 588nm (%):  
0.08X Primary Magnification PMAG:  
0.08 Telecentric Lens Magnification:  
170-220 Working Distance (mm):  
107.1 x 80.2 FOV @ Max Sensor Format, H x V (mm):  
f/6-f/25 Aperture (f#):  
N4 MgF<sub>2</sub> Coating:  
± 80mm at f/10 (20% @ 20 lp/mm) Depth of Field (mm):  
0.08X Magnification:  
VIS Lens Wavelength Range:

## Sensor

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

## Threading & Mounting

M154 x 1.50 (Female) Filter Thread:  
C-Mount Mount:

## Regulatory Compliance

[View](#) Certificate of Conformance:

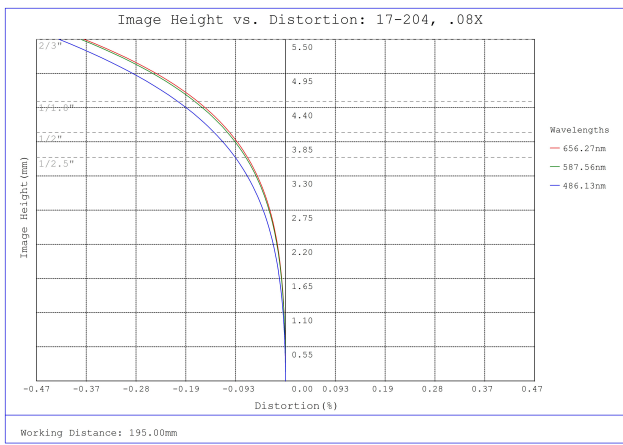
## Product Details

- 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

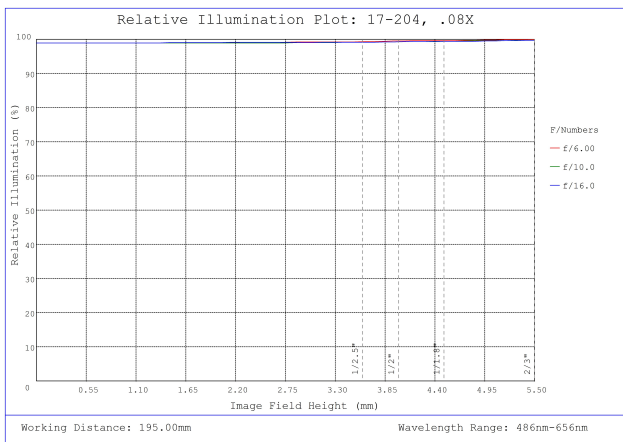
TECHSPEC® GoldTL™ Telecentric Lenses were designed specifically for machine vision and metrology applications. The unique focusable design allows for working distance adjustment, while still providing <0.2° telecentricity.

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.

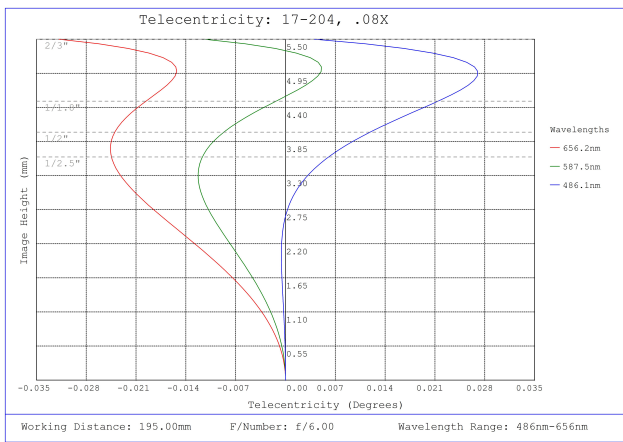
## Technical Information



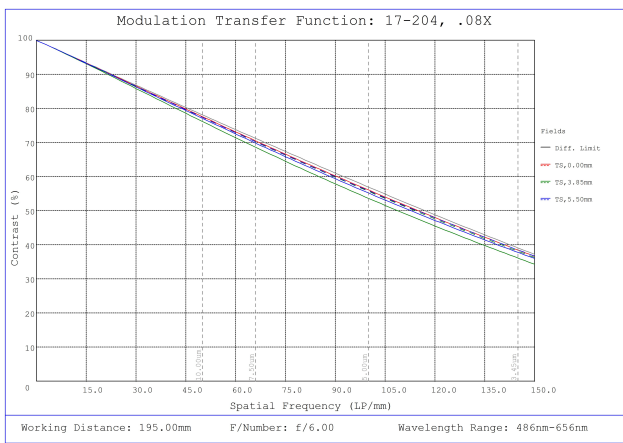
#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Distortion Plot



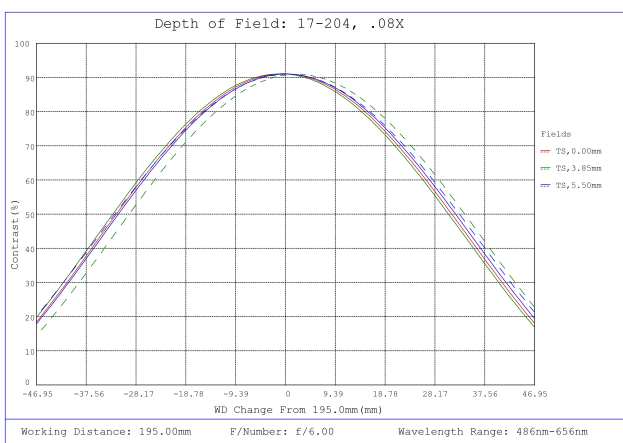
#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Relative Illumination Plot



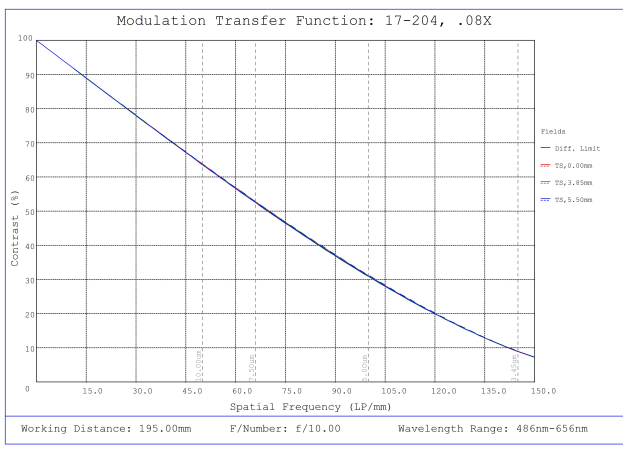
#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Telecentricity Plot



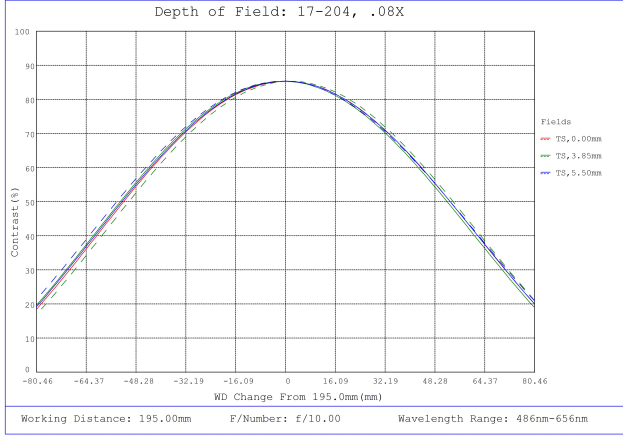
#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Modulated Transfer Function (MTF) Plot, 195mm Working Distance, f6



#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Depth of Field Plot, 195mm Working Distance, f6



#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Modulated Transfer Function (MTF) Plot, 195mm Working Distance, f10



#17-204, 0.08X GoldTL™ Telecentric Lens (Mount Included), Depth of Field Plot, 195mm 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

