

TECHSPEC® 0.09X, 1/2" GoldTL™ Telecentric Lens



#58-259 (0.09X)

Stock **#58-259 20+ In Stock**

⊖ 1 ⊕ £2,300⁰⁰

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Volume Pricing	
Qty 1+	£2,300.00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

GoldTL™ Series **Product Family:**

Stock No. of Mounting Clamp:
#56-027 Sold Separately

Telecentric Lens **Type:**

Focusable Telecentric **Special Type of Lens:**

Physical & Mechanical Properties

Variable	Iris Option:
200.00	Length (mm):
200.00	Length excluding Threads (mm):
110.00	Maximum Diameter (mm):
2.67	Weight (kg):

Optical Properties

71.1mm	Horizontal Field of View, 1/2" Sensor:
8.00	Maximum Image Circle (mm):
0.007	Numerical Aperture NA, Object Side:
>60% @ 40 lp/mm	Resolution, Image Space MTF @ f/10:
11 (8)	Number of Elements (Groups):
<0.028	Typical Telecentricity @ 588nm (°):
0.020	Typical Distortion @ 588nm (%):
0.09X	Primary Magnification PMAG:
0.09	Telecentric Lens Magnification:
132 - 182	Working Distance (mm):
71.1 x 53.3	FOV @ Max Sensor Format, H x V (mm):
f/6 - f/17.4	Aperture (f/#):
M4 MgF ₂	Coating:
±63.6 at f/10 (20% @ 20 lp/mm)	Depth of Field (mm):
0.09X	Magnification:
VIS	Lens Wavelength Range:

Sensor

1/2"	Maximum Sensor Format:
2.74	Pixel Size (µm):

Threading & Mounting

M105 x 1.00 (Female)	Filter Thread:
C-Mount	Mount:

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	REACH 201:
View	Certificate of Conformance:

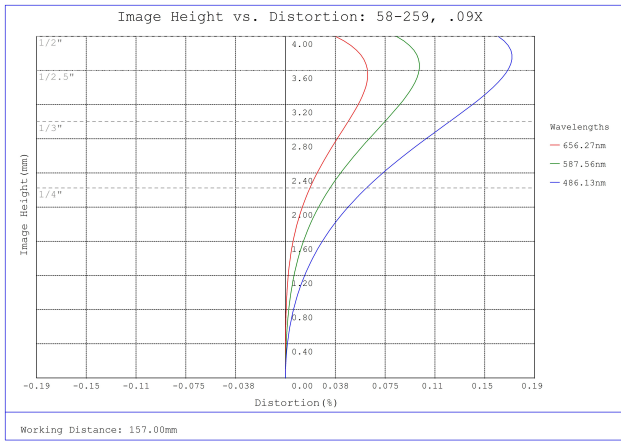
Product Details

- 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

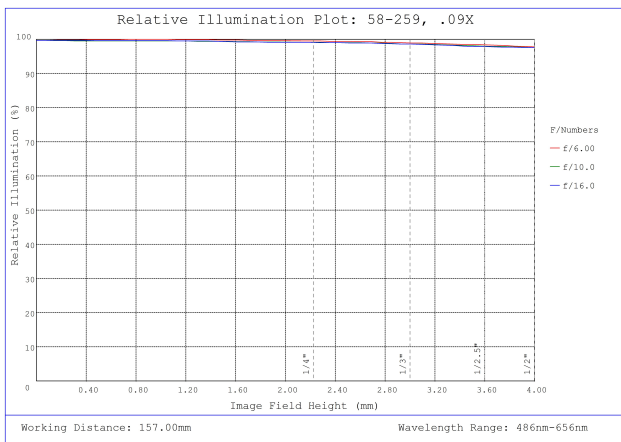
TECHSPEC® GoldTL™ Telecentric Lenses were designed specifically for machine vision and metrology applications. The unique focusable design allows for working distance adjustment, while still providing <0.2° telecentricity.

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.

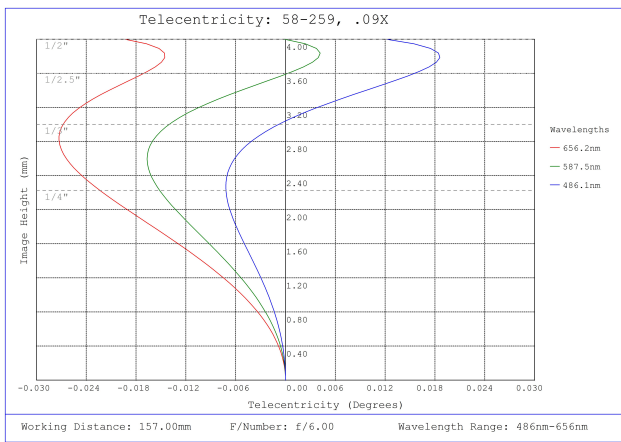
Technical Information



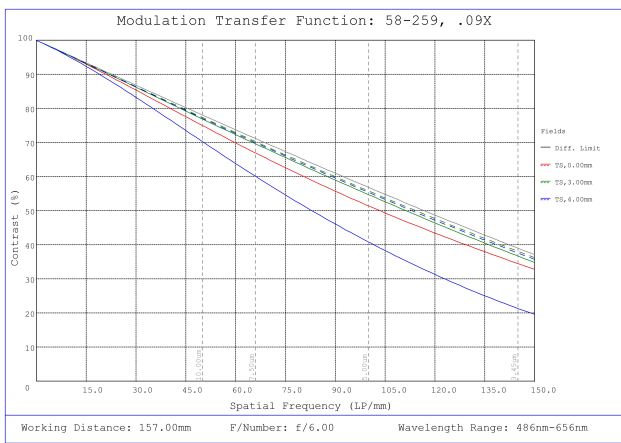
#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Distortion Plot



#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Relative Illumination Plot



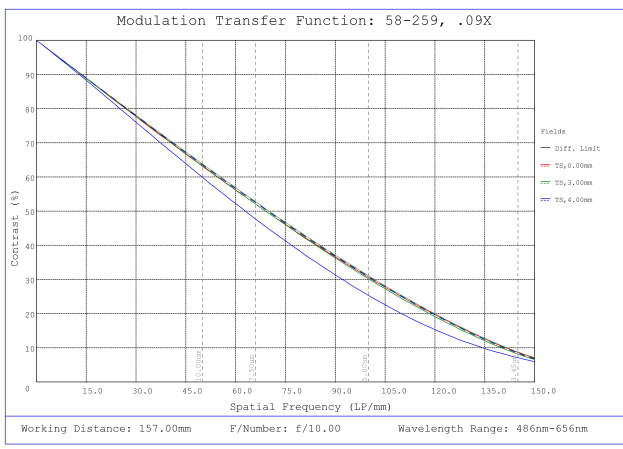
#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Telecentricity Plot



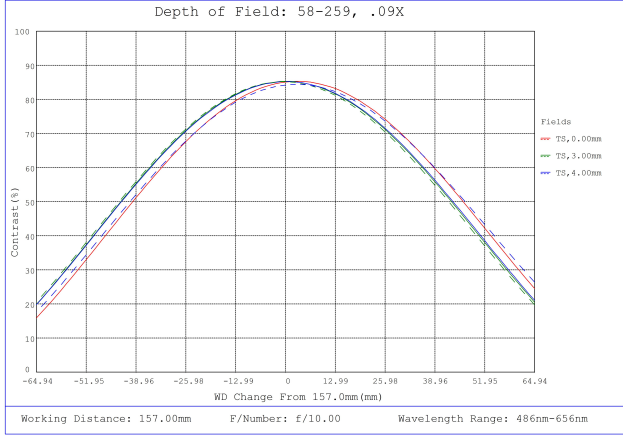
#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 157mm Working Distance, f6



#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Depth of Field Plot, 157mm Working Distance, f6



#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 157mm Working Distance, f10



#58-259, 0.09X 1/2" GoldTL™ Telecentric Lens, Depth of Field Plot, 157mm 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

