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TECHSPEC® 0.125X, 2/3" GoldTL™ Telecentric Lens

#55-348 (0.125X)

Stock **#55-348** **20+ In Stock**

- 1 + **€2.875**.00

ADD TO CART

Volume Pricing	
Qty 1+	**€2.875,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Product Family:
GoldTL™ Series

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

Type:
Telecentric Lens

Special Type of Lens:
Focusable Telecentric

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
200.00

Length excluding Threads (mm):
200.00

Maximum Diameter (mm):
110.00

Weight (kg):
2.66

Optical Properties

Horizontal Field of View, 2/3" Sensor:
70.4mm

Horizontal Field of View, 1/1.8" Sensor:
57.6mm

Horizontal Field of View, 1/2" Sensor:
51.2mm

Maximum Image Circle (mm):
11.00

Numerical Aperture NA, Object Side:
0.01

Resolution, Image Space MTF@f/10:
>45% @ 40 lp/mm

Number of Elements (Groups):
10 (8)

Typical Telecentricity @ 588nm (°):
<0.028

Typical Distortion @ 588nm (%):
0.025

Primary Magnification PMAG:
0.125X

Telecentric Lens Magnification:
0.12

Working Distance (mm):
132 - 182

FOV @ Max Sensor Format, H x V (mm):
70.4 x 52.8

Aperture (f/#):
f/6 - f/25

Coating:
$\lambda/4$ MgF_2

Depth of Field (mm):
±30.4 at f/10 (20% @ 20 lp/mm)

Magnification:
0.125X

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
2/3"

Pixel Size (µm):
2.74

Threading & Mounting

Filter Thread:
M105 x 1.00 (Female)

Mount:
C-Mount

Regulatory Compliance

RoHS 2015:
Compliant

REACH 201:
Compliant

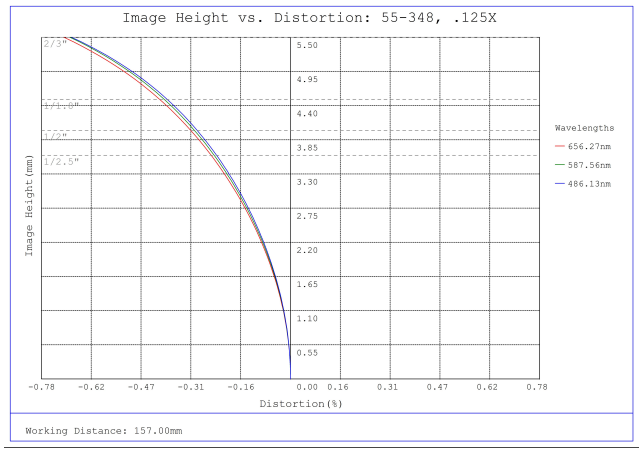
Certificate of Conformance:
View

Product Details

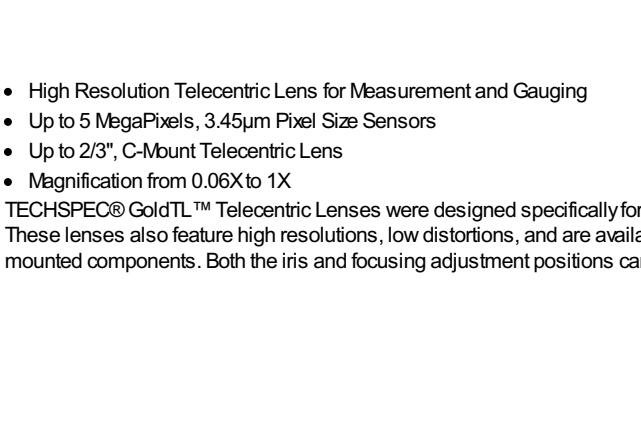
- High Resolution Telecentric Lens for Measurement and Gauging
- Up to 5 MegaPixels, 3.45µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.06X to 1X

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 ½" 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.

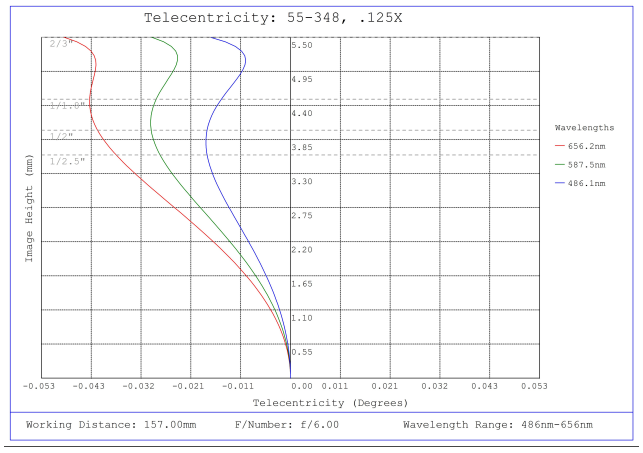
Technical Information



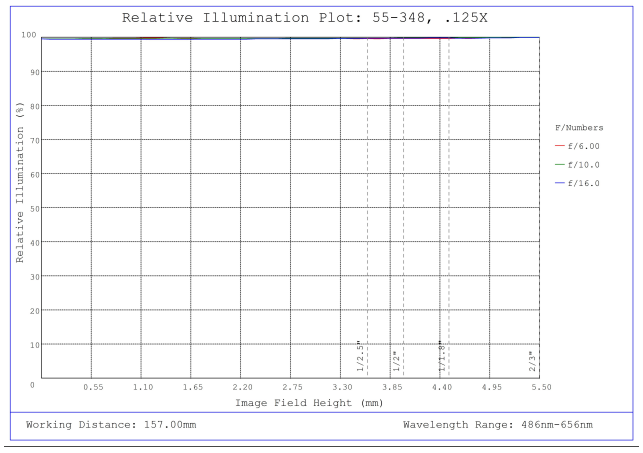
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Distortion Plot



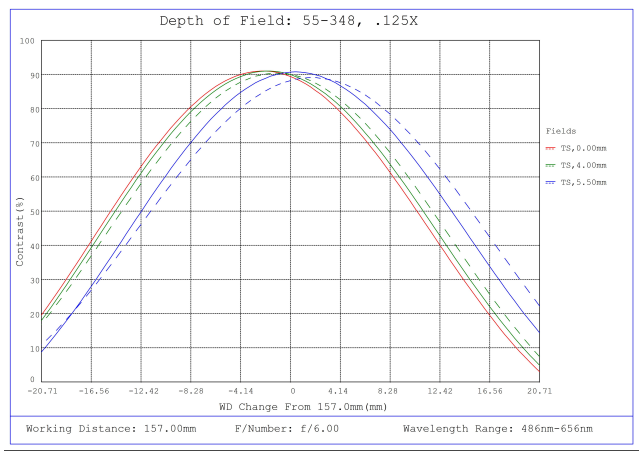
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Relative Illumination Plot



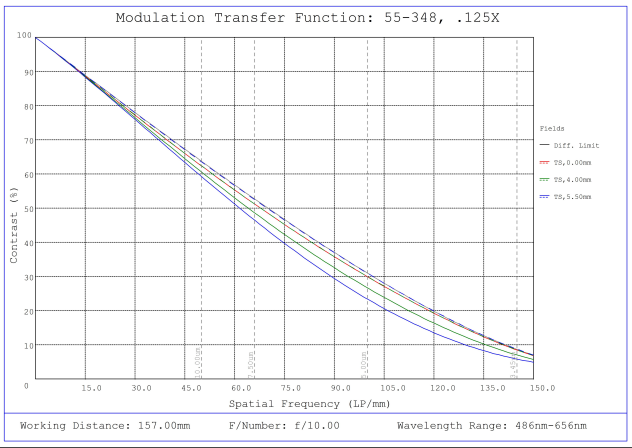
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Telecentricity Plot



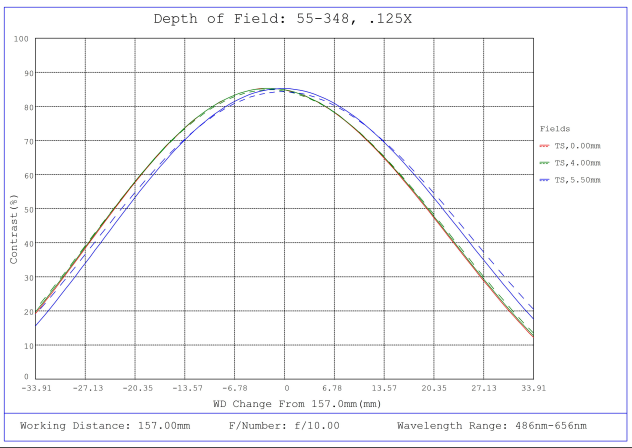
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 157mm Working Distance, f6



#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Depth of Field Plot, 157mm Working Distance, f6

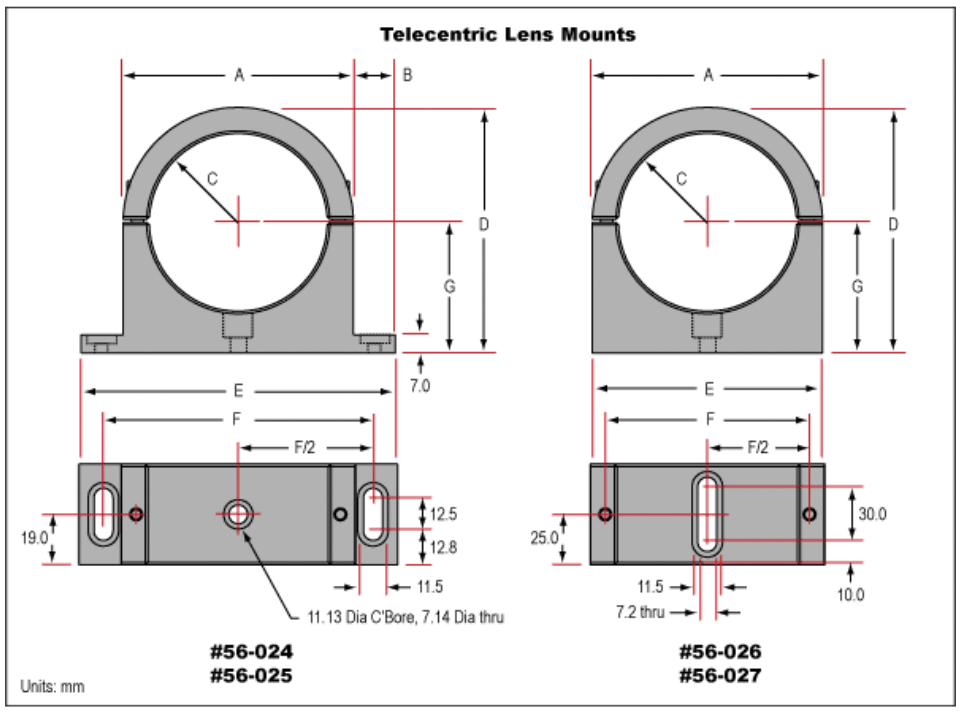


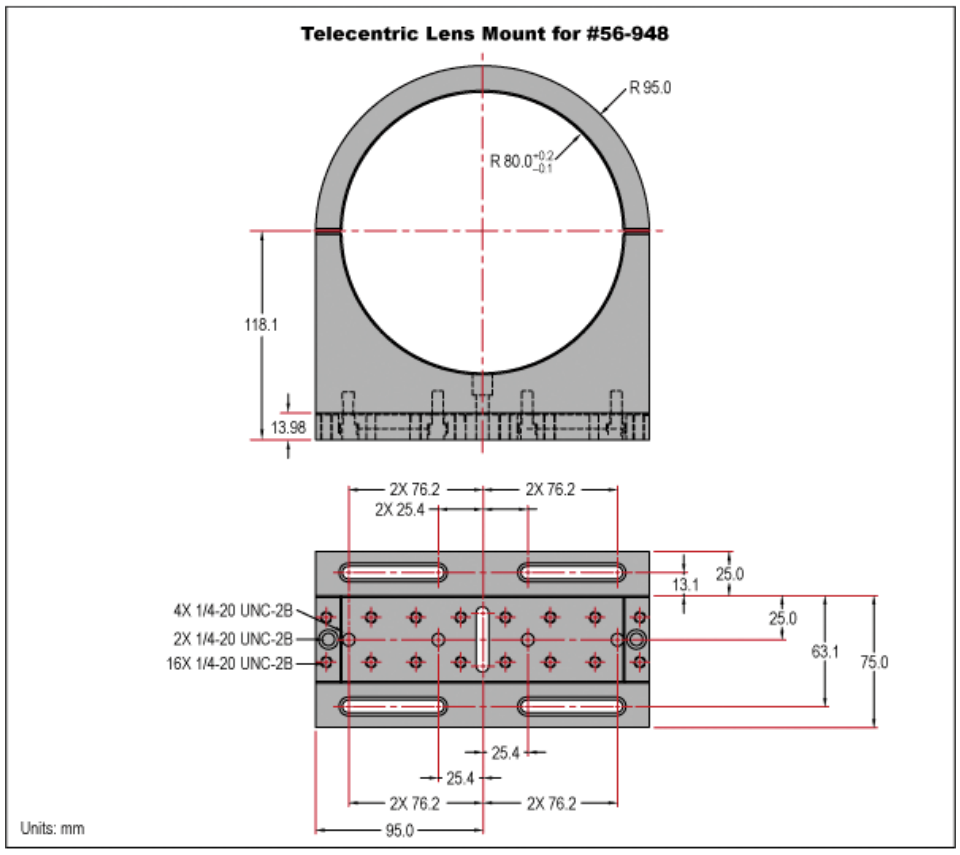
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 157mm Working Distance, f10



#55-348, 0.125X, 2/3" 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


Telecentric Lens Mounts
A
B
C
D
G
7.0
E
F
F/2
19.0
12.5
12.8
11.5
11.13 Dia C'Bore, 7.14 Dia thru
#56-024
#56-025
A
C
D
G
E
F
F/2
25.0
30.0
11.5
7.2 thru
10.0
#56-026
#56-027
Units: mm


Telecentric Lens Mount for #56-948
R 95.0
R 80.0 +0.2 -0.1
118.1
13.98
2X 76.2
2X 76.2
2X 25.4
4X 1/4-20 UNC-2B
2X 1/4-20 UNC-2B
16X 1/4-20 UNC-2B
13.1
25.0
25.0
63.1
75.0
25.4
25.4
2X 76.2
2X 76.2
95.0
Units: mm

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