

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



#55-348 (0.125X)

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

⊖ 1 ⊕ £2,300⁰⁰

ADD TO CART

| 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 **Series:**

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): |
| 2.66 | Weight (kg): |

Optical Properties

| | |
|--------------------------------|------------------------------------------|
| 70.4mm | Horizontal Field of View, 2/3" Sensor: |
| 57.6mm | Horizontal Field of View, 1/1.8" Sensor: |
| 51.2mm | Horizontal Field of View, 1/2" Sensor: |
| 11.00 | Maximum Image Circle (mm): |
| 0.01 | Numerical Aperture NA, Object Side: |
| >45% @ 40 lp/mm | Resolution, Image Space MTF @ f/10: |
| 10 (8) | Number of Elements (Groups): |
| <0.028 | Typical Telecentricity @ 588nm (°): |
| 0.025 | Typical Distortion @ 588nm (%): |
| 0.125X | Primary Magnification PMAG: |
| 0.12 | Telecentric Lens Magnification: |
| 132 - 182 | Working Distance (mm): |
| 70.4 x 52.8 | FOV @ Max Sensor Format, H x V (mm): |
| f/6 - f/25 | Aperture (f/#): |
| M4 MgF ₂ | Coating: |
| ±30.4 at f/10 (20% @ 20 lp/mm) | Depth of Field (mm): |
| 0.125X | Magnification: |
| VIS | Lens Wavelength Range: |

Sensor

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

Threading & Mounting

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

Regulatory Compliance

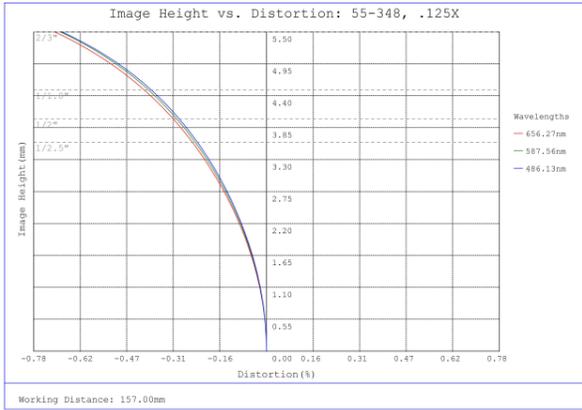
| | |
|---------------------------|-----------------------------|
| Compliant | RoHS 2015: |
| Compliant | REACH 201: |
| View | Certificate of Conformance: |

Product Details

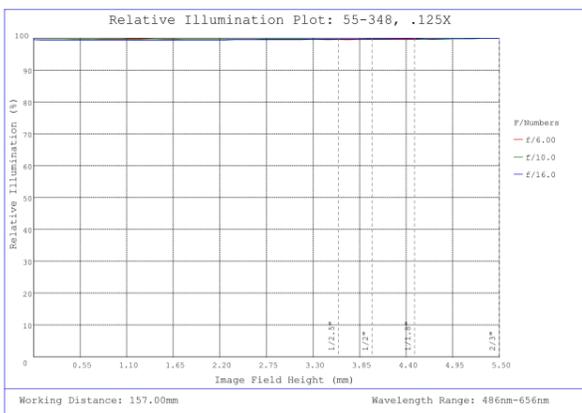
- High Resolution Telecentric Lens for Measurement and Gauging
- Up to 5 MegaPixels, 3.45µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.06X to 1X

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 <math><0.2^\circ</math> 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.

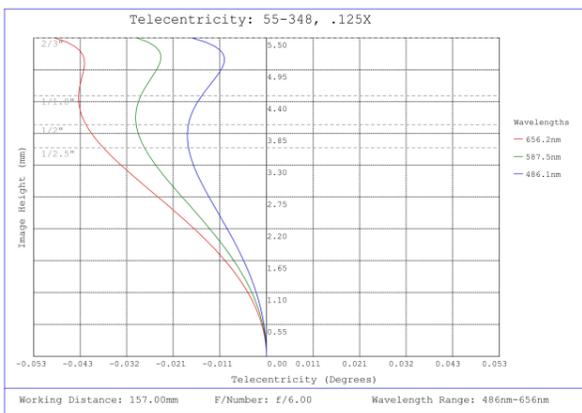
Technical Information



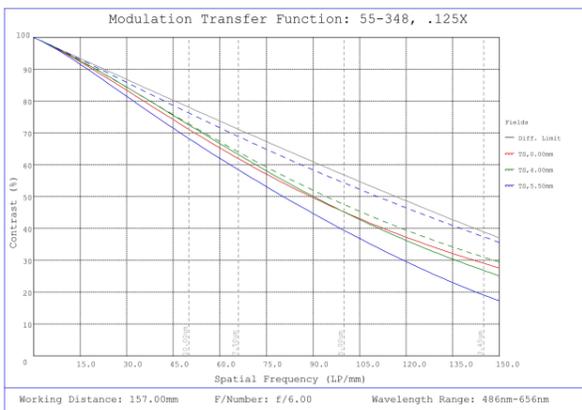
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Distortion Plot



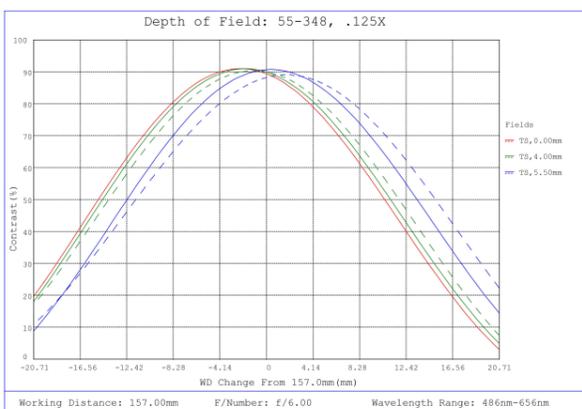
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Relative Illumination Plot



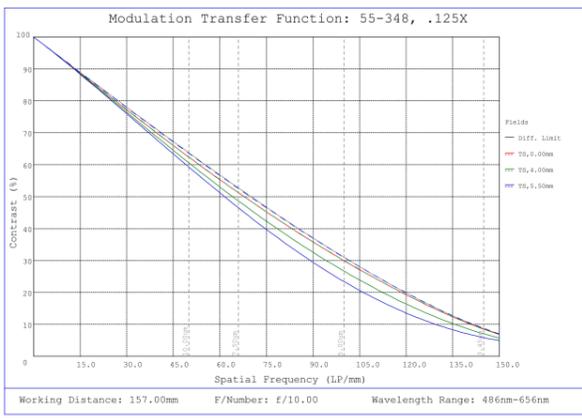
#55-348, 0.125X, 2/3" GoldTL™ Telecentric Lens, Telecentricity Plot



#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 |

