

[See all 16 Products in Family](#)

TECHSPEC® 0.69X CobaltTL Telecentric Lens



Stock #15-872 **1 In Stock**

1 MRP ₹2,80,975

Price inclusive of all taxes

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1+ | ₹2,80,975 each |
| Need More? | Request Quote |

Product Downloads

General

CobaltTL Series **Product Family:**

#63-233- Sold Separately **Stock No. of Mounting Clamp:**

Telecentric Lens **Type:**

Physical & Mechanical Properties

| | |
|----------|---------------------------------------|
| Variable | Iris Option: |
| 179.00 | Length (mm): |
| 175.00 | Length excluding Threads (mm): |
| 55 | Maximum Diameter (mm): |
| 796.9 | Weight (g): |

Optical Properties

| | |
|----------------------------------|---|
| 20.39mm | Horizontal Field of View, 1.1" Sensor: |
| 18.55mm | Horizontal Field of View, 1" Sensor: |
| 12.75mm | Horizontal Field of View, 2/3" Sensor: |
| 10.43mm | Horizontal Field of View, 1/1.8" Sensor: |
| 9.27mm | Horizontal Field of View, 1/2" Sensor: |
| 17.60 | Maximum Image Circle (mm): |
| 0.058 | Numerical Aperture NA, Object Side: |
| 9 (7) | Number of Elements (Groups): |
| 0.69X | Primary Magnification PMAG: |
| 0.69 | Telecentric Lens Magnification: |
| 110 | Working Distance (mm): |
| 20.4 x 15.3 | FOV @ Max Sensor Format, H x V (mm): |
| f/4 - f/22 | Aperture (f/#): |
| M4 MgF ₂ | Coating: |
| ±1.08mm at f/10 (20% @ 20 lp/mm) | Depth of Field (mm): |
| 0.69X | Magnification: |
| <0.027 | Typical Distortion @ 520nm (%): |
| <0.086 | Typical Telecentricity @ 520nm (°): |
| VIS | Lens Wavelength Range: |

Sensor

| | |
|------|-------------------------------|
| 1.1" | Maximum Sensor Format: |
| 2.20 | Pixel Size (µm): |

Threading & Mounting

| | |
|---------------------|-----------------------|
| M52 x 0.75 (Female) | Filter Thread: |
| C-Mount | Mount: |

Regulatory Compliance

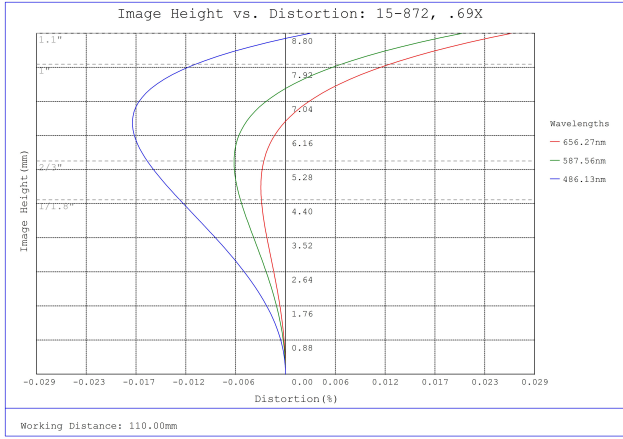
| | |
|---|------------------------------------|
| View | Certificate of Conformance: |
| China | Country of Origin: |
| Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000 | Imported By: |

Product Details

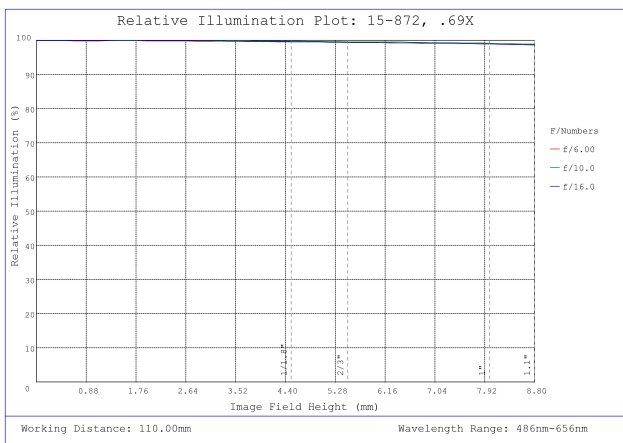
- High Resolution Bi-Telecentric Lens with In-Line Illumination Options
- Up to 20 MegaPixels, 2.2µm Pixel Size
- 1.1", C-Mount Telecentric Lens with f/#s as Low as f/4

TECHSPEC® CobaltTL Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. These telecentric lenses achieve high light throughput with industry leading low f/#s. Featuring less than 0.015° telecentricity and low 0.013% distortion, these lenses are ideal for image stitching applications. These 17.6mm diagonal sensor format lenses are compatible with the Sony IMX304 1.1" sensors and other similar format sensors such as the Sony IMX183. TECHSPEC® CobaltTL Telecentric Lenses produce unparalleled levels of contrast yielding maximum image quality with the highest degree of measurement accuracy. In-line versions provide the ability to rotate/reposition the inline illumination port to allow for maximum flexibility when machine building. TECHSPEC® CobaltTL Telecentric Lenses are compatible with high vibration environments and feature a removable recessed set screw for securely locking the iris in place.

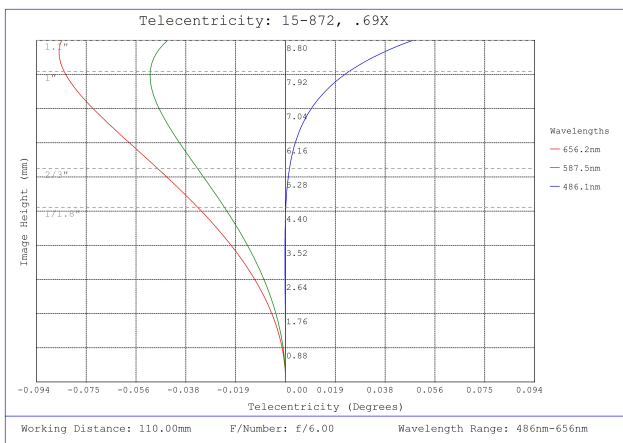
Technical Information



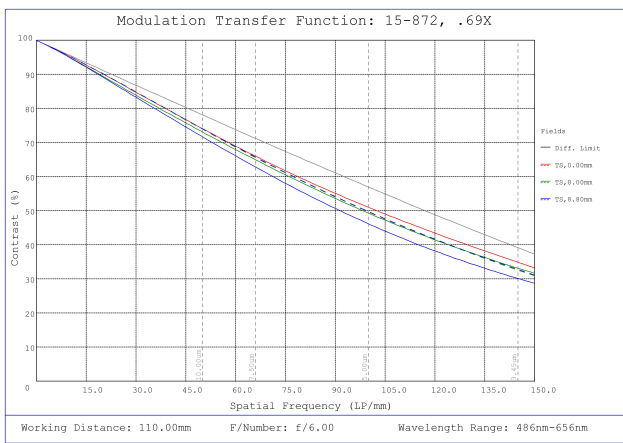
#15-872, 0.69X CobaltTL Telecentric Lens, Distortion Plot



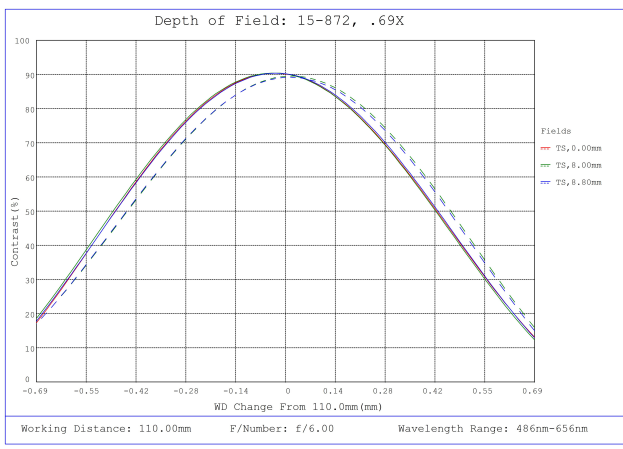
#15-872, 0.69X CobaltTL Telecentric Lens, Relative Illumination Plot



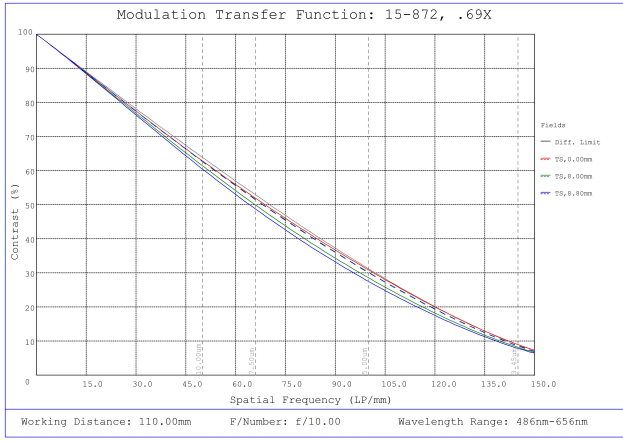
#15-872, 0.69X CobaltTL Telecentric Lens, Telecentricity Plot



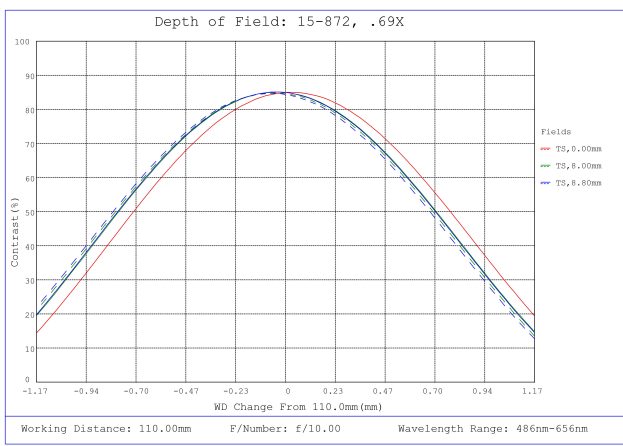
#15-872, 0.69X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 110mm Working Distance, f6



#15-872, 0.69X CobaltTL Telecentric Lens, Depth of Field Plot, 110mm Working Distance, f6



#15-872, 0.69X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 110mm Working Distance, f10



#15-872, 0.69X CobaltTL Telecentric Lens, Depth of Field Plot, 110mm Working Distance, f10

| Description | | Stock No. | Length (A) | Front Diameter (B) | Back Diameter (C) |
|-------------|---------|--------------------------------|------------|--------------------|-------------------|
| 0.28X | C-Mount | #62-921 | 197.59mm | 138.6mm | 50mm |
| 0.36X | C-Mount | #88-602 | 163.5mm | 70mm | 43.5mm |
| 0.5X | C-Mount | #62-911 | 172.9mm | 90mm | 50mm |
| 0.55X | C-Mount | #88-603 | 182.5mm | 62mm | 43.5mm |
| 0.69X | C-Mount | #15-872 / #15-873 (In-Line) | 174.96mm | 55mm | 46mm |
| 0.9X | C-Mount | #62-901 | 199.8mm | 65mm | 53mm |