See all 16 Products in Family

TECHSPEC® 0.367X CobaltTL Telecentric Lens

0.367X Magnification

Stock **#88-602** **2 In Stock**

- 1 + **₹1,34,894**

ADD TO CART

Volume Pricing	
Qty 1+	**₹1,34,894** each
Need More?	Request Quote

Product Downloads

General

Series:
CobaltTL Series

Stock No. of Mounting Clamp:
#89-721 Sold Separately

Type:
Telecentric Lens

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
163.50

Maximum Diameter (mm):
70.0

Weight (g):
627

Flange Distance (mm):
17.5

Optical Properties

Horizontal Field of View, 1.1" Sensor:
38.41mm

Horizontal Field of View, 1" Sensor:
34.92mm

Horizontal Field of View, 2/3" Sensor:
24.00mm

Horizontal Field of View, 1/1.8" Sensor:
19.63mm

Horizontal Field of View, 1/2" Sensor:
17.45mm

Maximum Image Circle (mm):
17.60

Numerical Aperture NA, Object Side:
0.031

Number of Elements (Groups):
10 (7)

Typical Telecentricity @ 588nm (°):
<0.114

Typical Distortion @ 588nm (%):
<0.084

Primary Magnification PMAG:
0.367X

Telecentric Lens Magnification:
0.37

Working Distance (mm):
169

FOV @ Max Sensor Format, H x V (mm):
38.4 x 28.8

Aperture (f/#):
f/6 - f/16

Coating:
425 - 675nm BBAR

Depth of Field (mm):
±2.305mm at f/10 (20% @ 20 lp/mm)

Magnification:
0.367X

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
1.1"

Pixel Size (µm):
2.20

Threading & Mounting

Filter Thread:
M67 x 0.75 (Female)

Mount:
C-Mount

Regulatory Compliance

Certificate of Conformance:
View

Country of Origin:
China

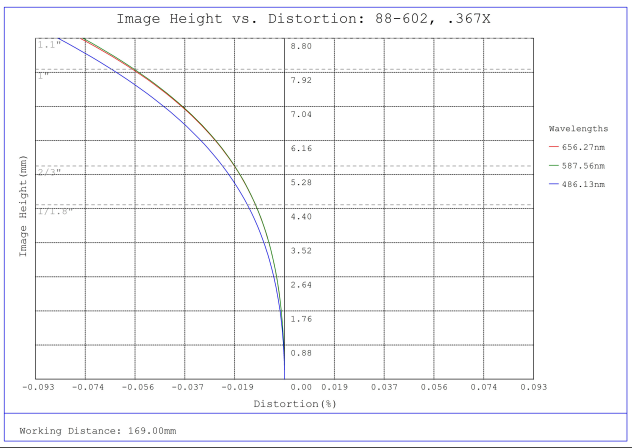
Imported By:
Edmund Optics India Private Limited

Product Details

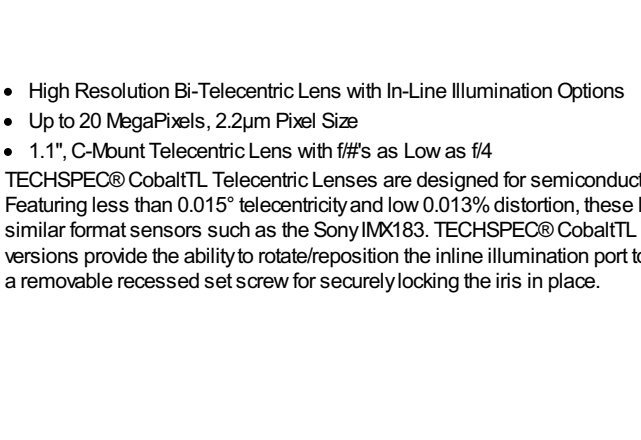
- High Resolution Bi-Telecentric Lens with In-Line Illumination Options
- Up to 20 MegaPixels, 2.2µm Pixel Size
- 1.1", C-Mount Telecentric Lens with f/#'s as Low as f/4

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.

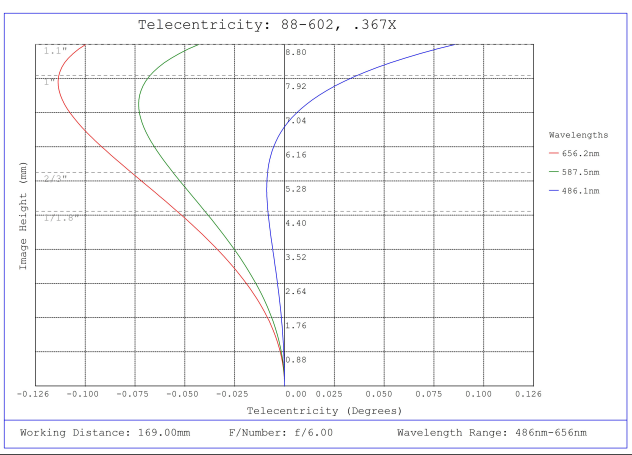
Technical Information



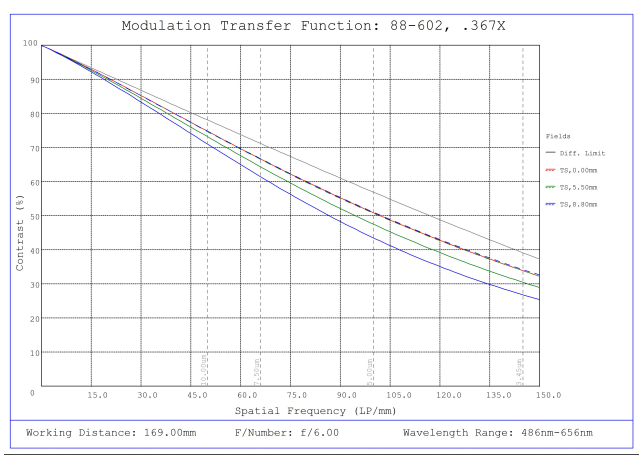
#88-602, 0.367X CobaltTL Telecentric Lens, Distortion Plot



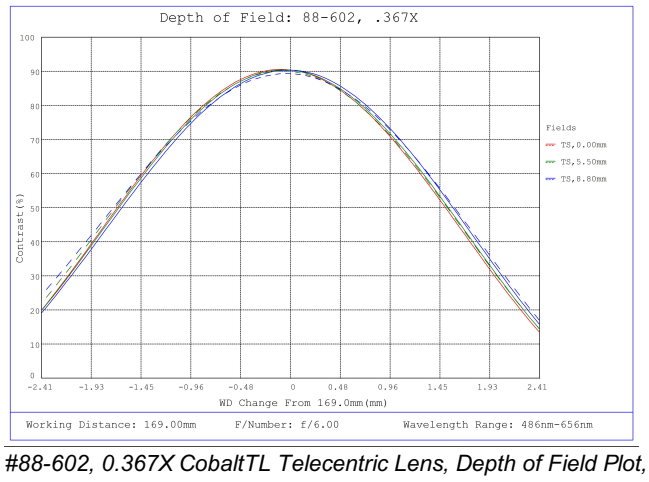
#88-602, 0.367X CobaltTL Telecentric Lens, Relative Illumination Plot



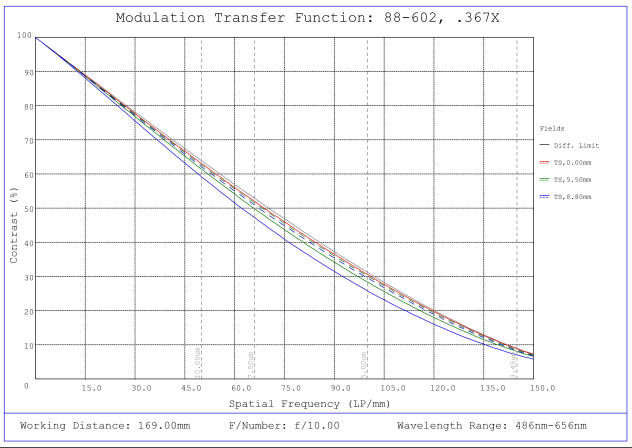
#88-602, 0.367X CobaltTL Telecentric Lens, Telecentricity Plot



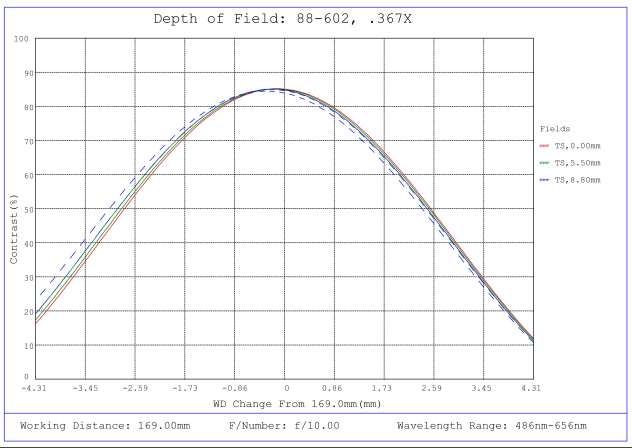
#88-602, 0.367X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 169mm Working Distance, f6



#88-602, 0.367X CobaltTL Telecentric Lens, Depth of Field Plot, 169mm Working Distance, f6

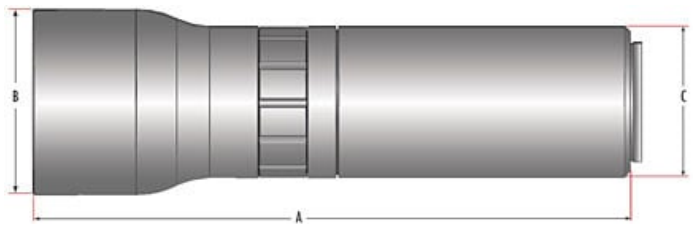


#88-602, 0.367X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 169mm Working Distance, f10



#88-602, 0.367X CobaltTL Telecentric Lens, Depth of Field Plot, 169mm 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



;