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TECHSPEC® 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens

PlatinumTL™ Telecentric Lenses

+3

Stock **#16-750** **15 In Stock**

- 1 + **A$3,640**.00

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Volume Pricing	
Qty 1+	**A$3,640.00** each
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General

Series:
PlatinumTL™ Series

Stock No. of Mounting Clamp:
#56-025 Sold Separately

Type:
Telecentric Lens

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
198.78

Maximum Diameter (mm):
65.0

Flange Distance (mm):
17.5

Optical Properties

Horizontal Field of View, APS-C Sensor:
24.9mm

Field of View, 28.7mm Sensor:
31.9mm

Horizontal Field of View, 4/3" Sensor:
19.2mm

Horizontal Field of View, 1.1" Sensor:
15.8mm

Horizontal Field of View, 1" Sensor:
14.2mm

Horizontal Field of View, 2/3" Sensor:
9.8mm

Horizontal Field of View, 1/2" Sensor:
7.1mm

Maximum Image Circle (mm):
28.70

Numerical Aperture NA, Object Side:
0.045

Number of Elements (Groups):
10 (7)

Typical Telecentricity @ 588nm (°):
<0.070

Typical Distortion @ 588nm (%):
<0.035

Primary Magnification PMAG:
0.9X

Telecentric Lens Magnification:
0.90

Working Distance (mm):
111.00

FOV @ Max Sensor Format, H x V (mm):
24.9 x 18.7

Aperture (f/#):
f/6 - f/22

Coating:
425 - 675nm BBAR

Depth of Field (mm):
±0.65 at f/10 (20% @ 20 lp/mm)

Magnification:
0.9X

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
APS-C

Pixel Size (µm):
2.74

Threading & Mounting

Filter Thread:
M62 x 0.75 (Female)

Mount:
TFL-Mount

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

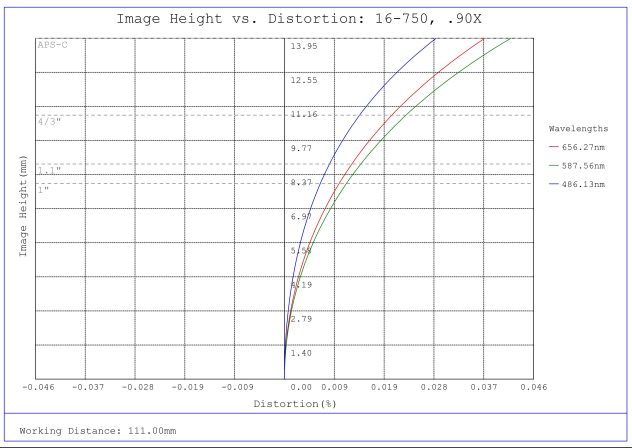
REACH 241:
Compliant

Product Details

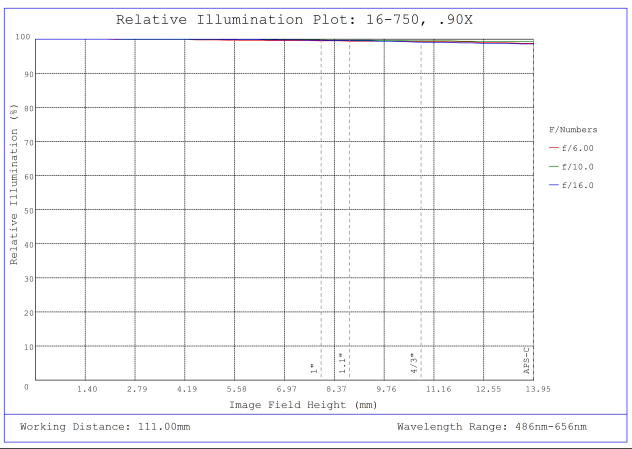
- High Resolution f/6 Bi-Telecentric Lens for Measurement
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

TECHSPEC® PlatinumTL™ Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. The precision designs feature high telecentricity (<0.1°), low distortion (<0.1%), and high light throughput with an adjustable aperture that achieves f/6 when fully open. Capable of supporting large format 28.7mm diagonal sensors, these lenses are compatible with the Sony IMX342 APS-C sensor and other similar format sensors such as the Sony IMX530. TECHSPEC® PlatinumTL™ Telecentric Lenses produce unparalleled levels of contrast yielding maximum image quality with the highest degree of measurement accuracy. These lenses are suitable for high vibration environments and feature a removable recessed set screw for securing the iris in place.

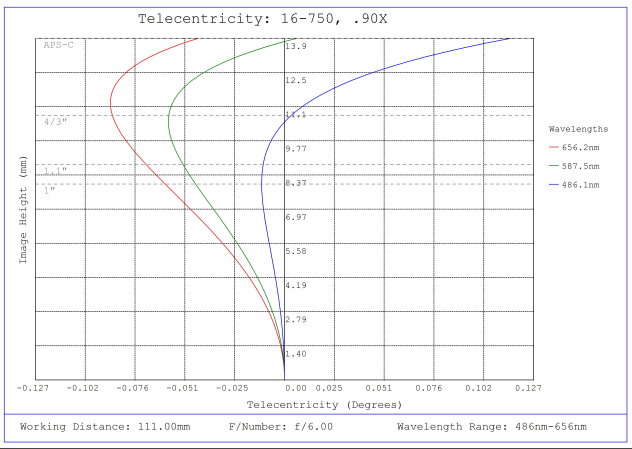
Technical Information



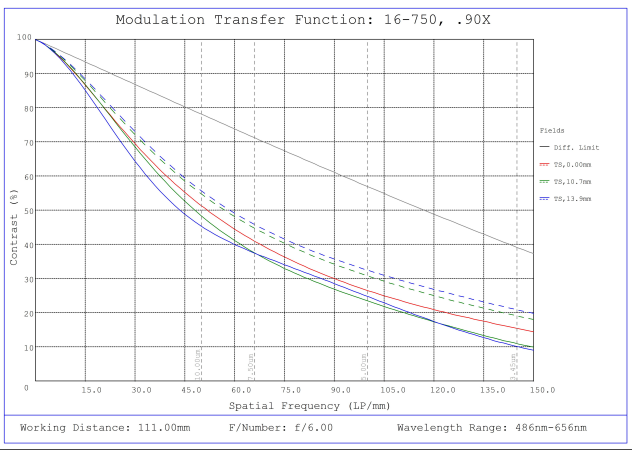
#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Distortion Plot



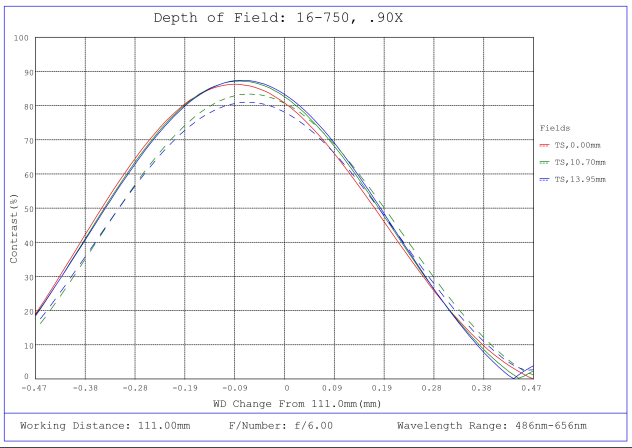
#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Relative Illumination Plot



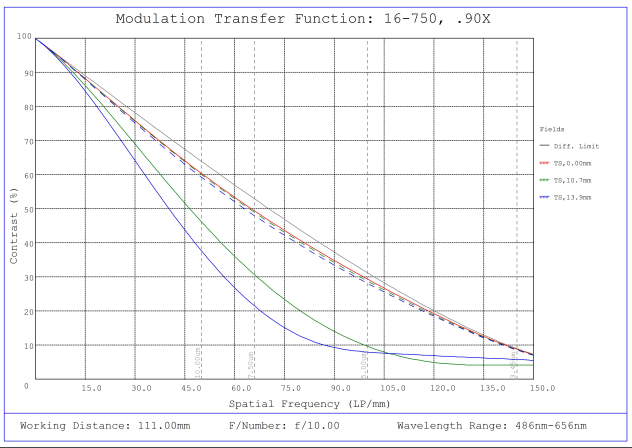
#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Telecentricity Plot



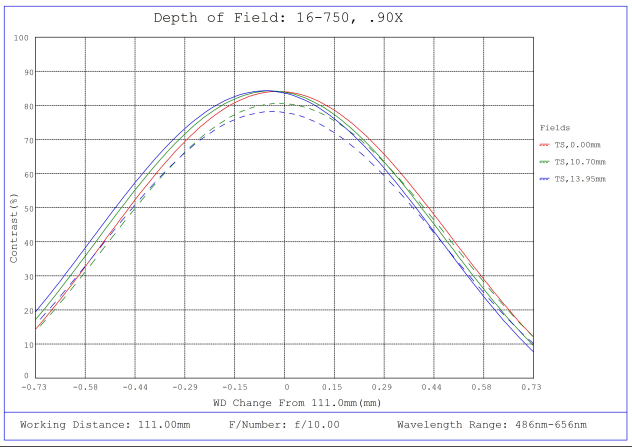
#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f6



#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Depth of Field Plot, 111mm Working Distance, f6

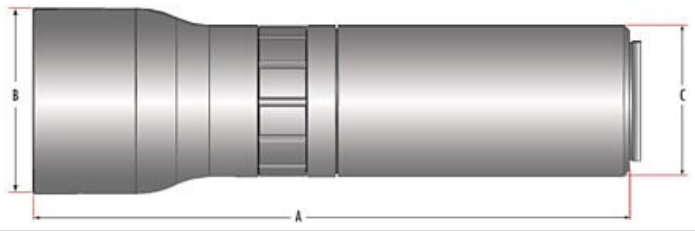


#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f10



#16-750, 0.9X, 28.7mm TFL-Mount PlatinumTL™ Telecentric Lens, Depth of Field Plot, 111mm Working Distance, f10

Description		Stock No.	Flange	Length (A)	Front Diameter (B)	Back Diameter (C)
0.28X	C-Mount	**#62-933**	17.5mm	230.8mm	60.5mm	33.5mm
0.5X	C-Mount	**#62-932**	17.5mm	174.9mm	50mm	33.5mm
1.7X	C-Mount	**#63-232**	17.5mm	189.5mm	60mm	46mm
0.28X	F-Mount	**#62-922**	46.5mm	167.6mm	138.6mm	55mm
	M42 x 1.0	**#62-923**	6.56mm	208.5mm	138.6mm	50mm
	M42 x 1.0	**#62-924**	19.53mm	195.5mm	138.6mm	50mm
0.5X	F-Mount	**#62-912**	46.5mm	143mm	90mm	55mm
	M42 x 1.0	**#62-913**	6.56mm	184mm	90mm	50mm
	M42 x 1.0	**#62-914**	19.53mm	171.1mm	90mm	50mm
0.9X	F-Mount	**#62-902**	46.5mm	170.8mm	65mm	55mm
	M42 x 1.0	**#62-903**	6.56mm	210.7mm	65mm	53mm
	M42 x 1.0	**#62-904**	19.53mm	197.8mm	65mm	53mm



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