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TECHSPEC® 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens

0.5X Magnification

Stock **#62-912** **3 In Stock**

- 1 + **€3.115**.00

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Volume Pricing	
Qty 1+	**€3.115,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Series:
PlatinumTL™ Series

Stock No. of Mounting Clamp:
#63-441 Sold Separately

Type:
Telecentric Lens

Physical & Mechanical Properties

Iris Option:

Variable

Length (mm):
143.00

Maximum Diameter (mm):
90.0

Weight (g):
1024

Flange Distance (mm):
46.5

Optical Properties

Horizontal Field of View, APS-C Sensor:
44.8mm

Field of View, 28.7mm Sensor:
57.4mm

Horizontal Field of View, 4/3" Sensor:
34.6mm

Horizontal Field of View, 1.1" Sensor:
28.4mm

Horizontal Field of View, 1" Sensor:
25.6mm

Horizontal Field of View, 2/3" Sensor:
17.70mm

Horizontal Field of View, 1/2" Sensor:
12.8mm

Maximum Image Circle (mm):
28.70

Numerical Aperture NA, Object Side:
0.041

Number of Elements (Groups):
10 (7)

Typical Telecentricity @ 588nm (°):
<0.055

Typical Distortion @ 588nm (%):
<0.020

Primary Magnification PMAG:
0.5X

Telecentric Lens Magnification:
0.50

Working Distance (mm):
175.00

FOV @ Max Sensor Format, H x V (mm):
44.8 x 33.6

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

Coating:
425 - 675nm BBAR

Depth of Field (mm):
±2.05 at f/10 (20% @ 20 lp/mm)

Magnification:
0.5X

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
APS-C

Pixel Size (µm):
2.74

Threading & Mounting

Filter Thread:
M86 x 1.00 (Female)

Mount:
F-Mount

Regulatory Compliance

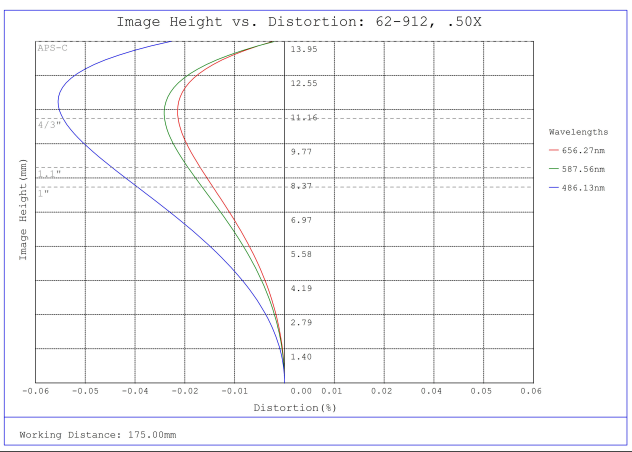
Certificate of Conformance:
View

Product Details

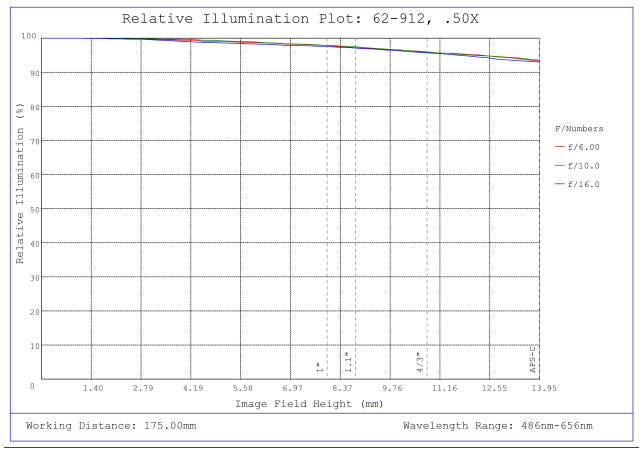
- High Resolution f/6 Bi-Telecentric Lens for Measurement
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

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.

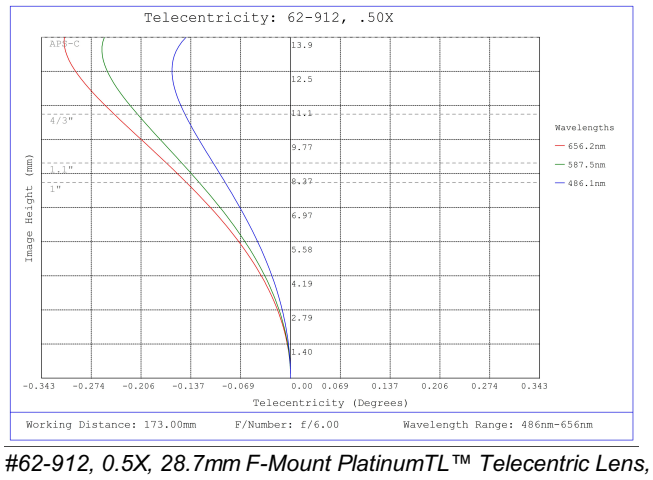
Technical Information



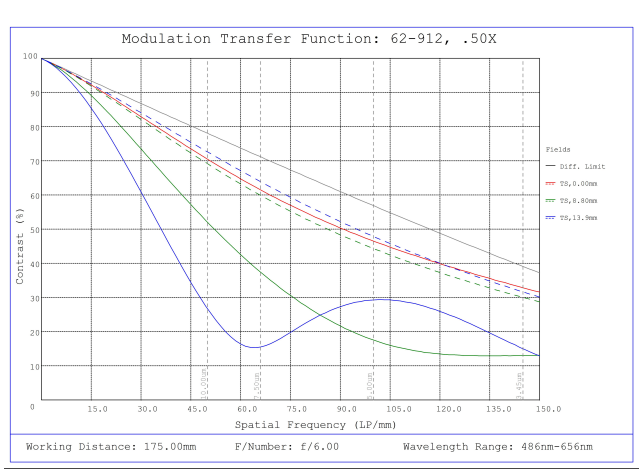
#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Distortion Plot



#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Relative Illumination Plot

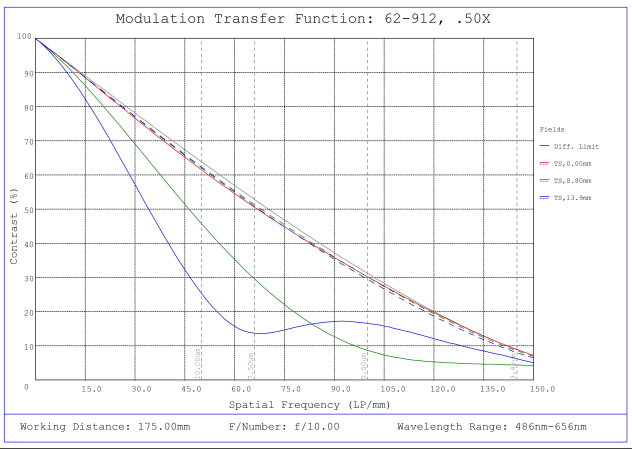


#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Telecentricity Plot



#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f6

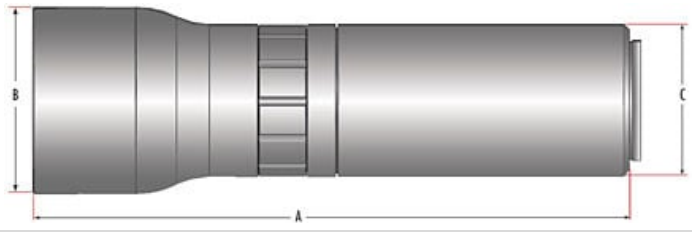
#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f6



#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f10

#62-912, 0.5X, 28.7mm F-Mount PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm 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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