

TECHSPEC®

0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens

Stock #62-914 [CONTACT US](#)



0.5X Magnification







- 1 +

£2,492^{.00}

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General

Product Family:	PlatinumTL™ Series	Stock No. of Mounting Clamp:	#63-441 Sold Separately
Type:	Telecentric Lens		

Physical & Mechanical Properties

Iris Option:	Variable	Length (mm):	171.10
Maximum Diameter (mm):	90.0	Weight (g):	986
Flange Distance (mm):	19.53		

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
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Threading & Mounting

Filter Thread:	M86 x 1.00 (Female)	Mount:	M42 x 1.0
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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

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Distortion Plot

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Relative Illumination Plot

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Telecentricity Plot

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f6

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f6

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f10

#62-914, 0.5X, 28.7mm M42 x 1.0 (19.53mm) 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

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	Mounting Clamp, 90mm Inner Diameter		#63-441	£300.00 Request Quote	8 In Stock <input type="text" value="1"/>

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TitanTL® Telecentric Lenses



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SilverTL™ Telecentric Lenses



#58-404 - EO Telecentricity Test Target
£1,148.00

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Frequently Purchased Together



#34-966 - DALSA Genie Nano 1/4-20 Mounting Adapter
£42.40

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#34-967 - DALSA Genie Nano Cable Kit
£147.20

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#52-385 - 12" x 11.5" 0°, Glossy, 3M Light Control Film
£143.20

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#54-628 - 5mm Length, C-Mount Extension Tube
£26.60

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