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TECHSPEC® **1.0X SilverTL™ Telecentric Lens**

1.0X Magnification

Stock **#58-430** [CONTACT US]

⊖   1   ⊕   **€1.125**⁰⁰

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Volume Pricing	
Qty 1+	**€1.125,00** each
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🛈 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Series:	
SilverTL™ Series	
Stock No. of Mounting Clamp:	
#56-870 Sold Separately	
Type:	
Telecentric Lens	

Physical & Mechanical Properties

Property	Value
Iris Option:	Variable
Length (mm):	114.00
Length excluding Threads (mm):	114.00
Maximum Diameter (mm):	40.00
Weight (g):	193
Construction:	Anodized Aluminum

Optical Properties

Property	Value
Horizontal Field of View, 2/3" Sensor:	8.8mm
Horizontal Field of View, 1/2" Sensor:	6.4mm
Horizontal Field of View, 1/3" Sensor:	4.8mm
Maximum Image Circle (mm):	11.00
Numerical Aperture NA, Object Side:	0.082
Working Distance Tolerance (mm):	±3
Resolution, Image Space MTF @ f/10:	>40% @ 40 lp/mm
Number of Elements (Groups):	6 (5)
Typical Telecentricity @ 588nm (°):	<0.045
Typical Distortion @ 588nm (%):	<0.060
Primary Magnification PMAG:	1X
Telecentric Lens Magnification:	1.00
Working Distance (mm):	83.00
FOV @ Max Sensor Format, H x V (mm):	8.8 x 6.6
Aperture (f/#):	f/6 - f/22
Coating:	425 - 675nm BBAR
Depth of Field (mm):	±0.5 at f/10 (20% @ 20 lp/mm)
Magnification:	1X
Lens Wavelength Range:	VIS

Sensor

Property	Value
Maximum Sensor Format:	2/3"
Pixel Size (µm):	2.74

Threading & Mounting

Property	Value
Filter Thread:	M37 x 0.75 (Female)
Mount:	C-Mount

Regulatory Compliance

Property	Value
RoHS 2015:	Compliant
Certificate of Conformance:	View
REACH 241:	Compliant

Product Details

- High Resolution f/6 Bi-Telecentric Lens with Inline Illumination Options
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.16X to 4X

TECHSPEC® SilverTL™ Telecentric Lenses are ideal for both on-line and off-line machine vision production applications that require accurate measurements. These lenses combine high-quality optics with a simplified non-focusing mechanical design and an adjustable iris with a locking set screw. These lenses are designed for metrology and gauging applications. TECHSPEC® SilverTL™ Telecentric Lenses also offer inline illumination options for maximum versatility. Each lens also features a standard front filter thread for use with **color filters**, **polarizers**, **protective windows**, and **illumination adapters** for LED or fiber-optic ring lights.

Note: Mounting brackets are available that fit the 30mm diameter mounting surface.
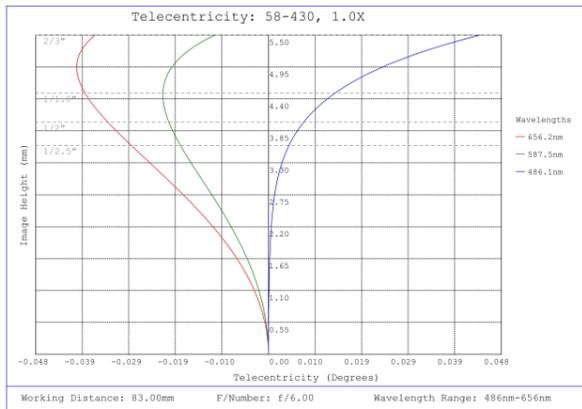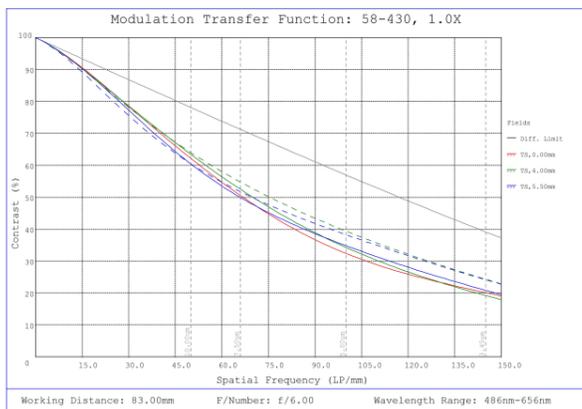
Technical Information

#58-430, 1.0X SilverTL™ Telecentric Lens, Distortion Plot
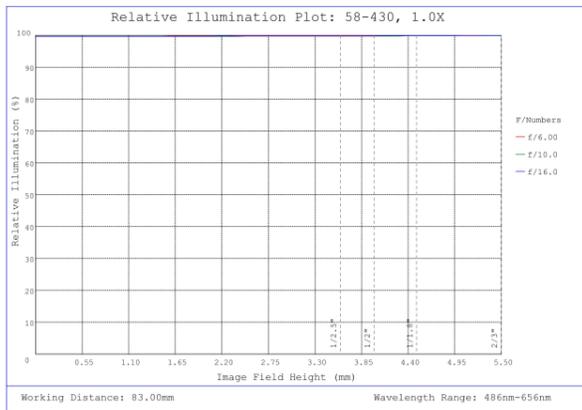
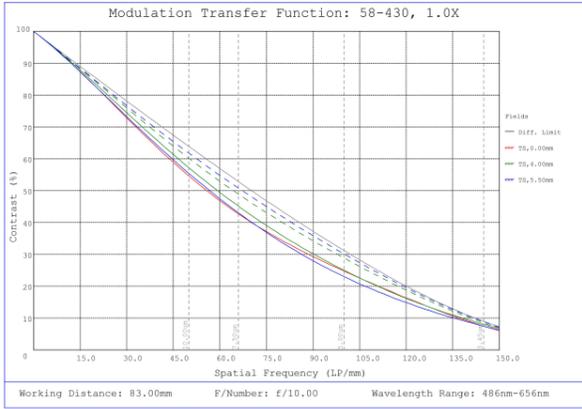*#58-430, 1.0X SilverTL™ Telecentric Lens, Relative Illumination Plot*

#58-430, 1.0X SilverTL™ Telecentric Lens, Telecentricity Plot
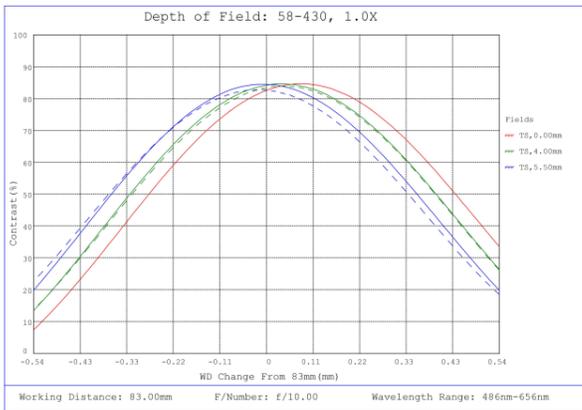

#58-430, 1.0X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 83mm Working Distance, f6

#58-430, 1.0X SilverTL™ Telecentric Lens, Depth of Field Plot, 83mm Working Distance, f6
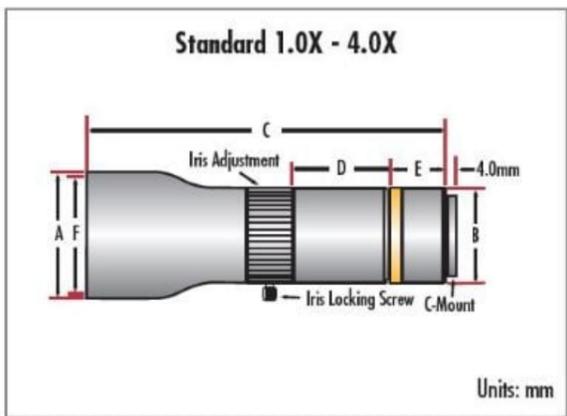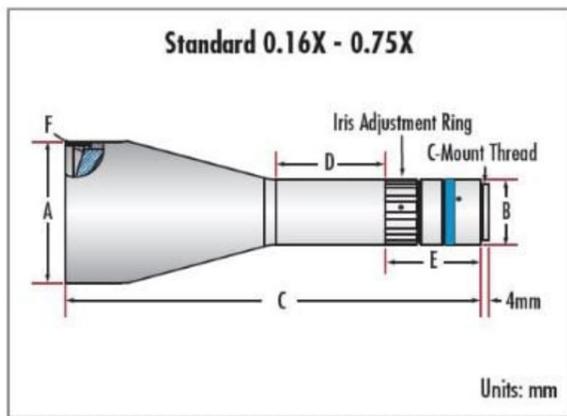

#58-430, 1.0X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 83mm Working Distance, f10

#58-430, 1.0X SilverTL™ Telecentric Lens, Depth of Field Plot, 83mm Working Distance, f10

Stock Number	Primary Mag.	Max. Diameter A	Mounting Diameter B	Length C	Mounting Length D	Mounting Offset E	Filter Thread F
#56-675	0.16X	65mm	30mm	191mm	50mm	43mm	M62 x 0.75
#63-073	0.20X	60mm	30mm	188mm	42mm	45mm	M58 x 0.75
#56-676	0.25X	48mm	30mm	158mm	49mm	44mm	M46 x 0.75
#58-428	0.30X	46mm	30mm	158mm	60mm	43mm	M43 x 0.75
#56-677	0.40X	45mm	30mm	159mm	67mm	33mm	M43 x 0.75
#63-074	0.50X	40mm	30mm	153mm	42mm	68mm	M37 x 0.75
#88-344 (In-Line)				156.2mm	45.1mm	73.4mm	
#56-678	0.60X	42mm	30mm	156mm	57mm	46mm	M40.5 x 0.5
#67-731	0.75X	36mm	30mm	151.2mm	34mm*	82.2mm	M30.5 x 0.5
#88-346 (In-Line)				155.2mm	46.2mm	16.9mm	
#58-430	1.0X	40mm	30mm	114mm	32mm*	17mm	M37 x 0.75
#58-431	2.0X	45mm	30mm	141mm	45mm	17mm	M43 x 0.75
#88-348 (In-Line)				144.6mm	42.2mm	18.8mm	
#58-432	4.0X	61mm	30mm	249mm	99mm	17mm	M58 x 0.75

*Mounting clamp fits over iris