

TECHSPEC[®] 16mm LT Series Fixed Focal Length Lens



16mm FL Front, #14-362



Stock **#14-362** CLEARANCE **12 In Stock**

-

1

+

 £988^{.00}

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Volume Pricing	
Qty 1+	£988.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Note: This item requires accessories for use | [Learn More](#)

Product Downloads

SPECIFICATIONS

General

LT Series	Series:
Diameter includes liquid lens	Note:
Fixed Focal Length Lens	Type:
Optutune EL-10-30-TC-VIS-5D	Integrated Liquid Lens Model:
Integrated Liquid Lens to Adjust Focus Electronically	Imaging Lens Type:
Liquid Lens Focusable	Special Type of Lens:

Physical & Mechanical Properties

Fixed	Iris Option:
82.10	Length (mm):
89.5	Maximum Diameter (mm):
89.5	Outer Diameter (mm):
323.0	Weight (g):
0	Maximum Rear Protrusion (mm):

Optical Properties

165.5mm - 49.1°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 166.6mm - 48.5° Vertical: 122mm - 36.7° Diagonal: 216.2mm - 60.2°	Field of View at Max Sensor Format:
165.5mm - 49.1°	Horizontal Field of View, 1.1" Sensor:
147.6mm - 44.4°	Horizontal Field of View, 1" Sensor:
99.1mm - 30.8°	Horizontal Field of View, 2/3" Sensor:
80.6mm - 25.3°	Horizontal Field of View, 1/1.8" Sensor:
71.4mm - 22.5°	Horizontal Field of View, 1/2" Sensor:
64.6mm - 20.4°	Horizontal Field of View, 1/2.5" Sensor:
53.3mm - 16.9°	Horizontal Field of View, 1/3" Sensor:
39.9mm - 12.7°	Horizontal Field of View, 1/4" Sensor:
17.60	Maximum Image Circle (mm):
0.0159	Numerical Aperture NA, Object Side:
9 (6)	Number of Elements (Groups):
16.00	Focal Length FL (mm):
150 - ∞	Working Distance (mm):
f/2.8	Aperture (f/#):
λ/4 MgF ₂	Coating:
λ/4 MgF ₂	Coating Specification:
30.45	Entrance Pupil Position (mm):
44.38	Object Space Principal Plane (mm):
7.72	Image Space Principal Plane (mm):
-6.77	Maximum Distortion (%):

-101.37	Exit Pupil Position (mm):
VS	Lens Wavelength Range:
Sensor	
1.1"	Maximum Sensor Format:
2.74	Pixel Size (µm):
Threading & Mounting	
M55.0 x0.75 (Female)	Filter Thread:
C-Mount	Mount:
Environmental & Durability Factors	
-20 to +60	Storage Temperature (°C):
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

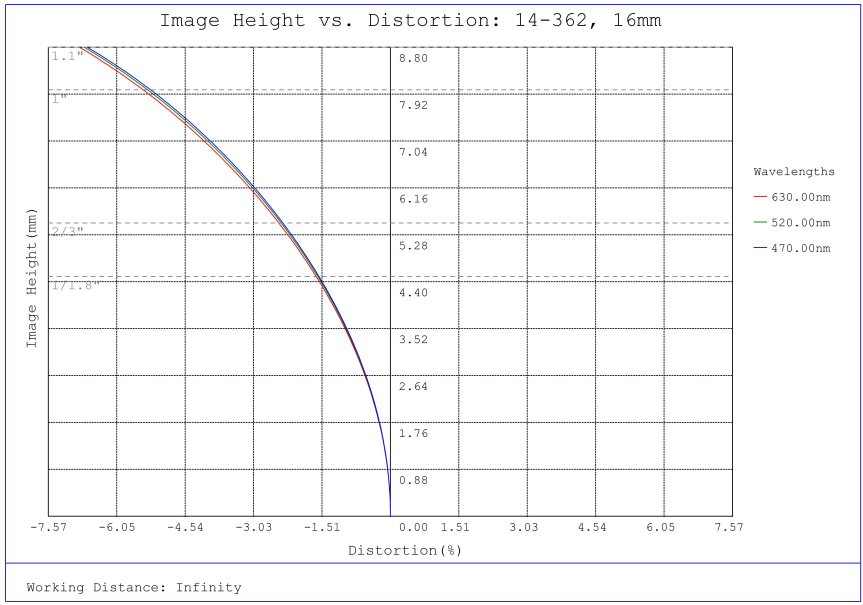
- 1.1" Sensor, C-Mount Lens, up to 12 MegaPixels, 3.45µm Pixel Size Sensor
- Integrated Liquid Lens Allows for Dynamic Autofocus
- Liquid Tunable (LT) Lens Maximizes the Liquid Lens Capabilities for Resolution, Range and Focus Speed
- 12 to 25mm Focal Length

TECHSPEC® LT Series Fixed Focal Length Lenses feature a high-resolution f/2.8 optical design with an integrated Optotune liquid lens for fast electronic focus. The increased light throughput f/2.8 aperture is ideal for high-speed machine vision applications. When combined with an appropriate camera and software, the focus tunable liquid lens provides the active focus control needed to achieve an autofocus solution. These C-Mount lenses are optimized for 1.1" sensors and have front filter threading to integrate imaging filters to meet application requirements. TECHSPEC® LT Series Fixed Focal Length Lenses are ideal for machine vision and factory automation applications where focusing at multiple distances is required, such as quality inspection systems, rapid automation, and package sorting. The TECHSPEC® LT Series Fixed Focal Length Lenses won the [Gold-Level 2021 Vision Systems Design Innovators Award](#) and [third place 2021 reader's choice inspect Award](#).

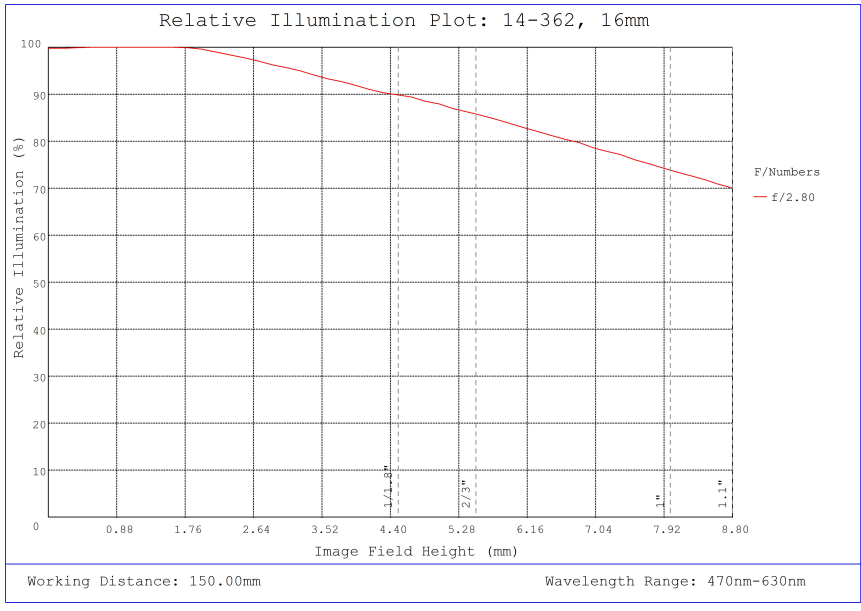
inspect award 2021 winner

Note: Hirose cables (2 length options) and Lens Driver are required for operation and sold separately.

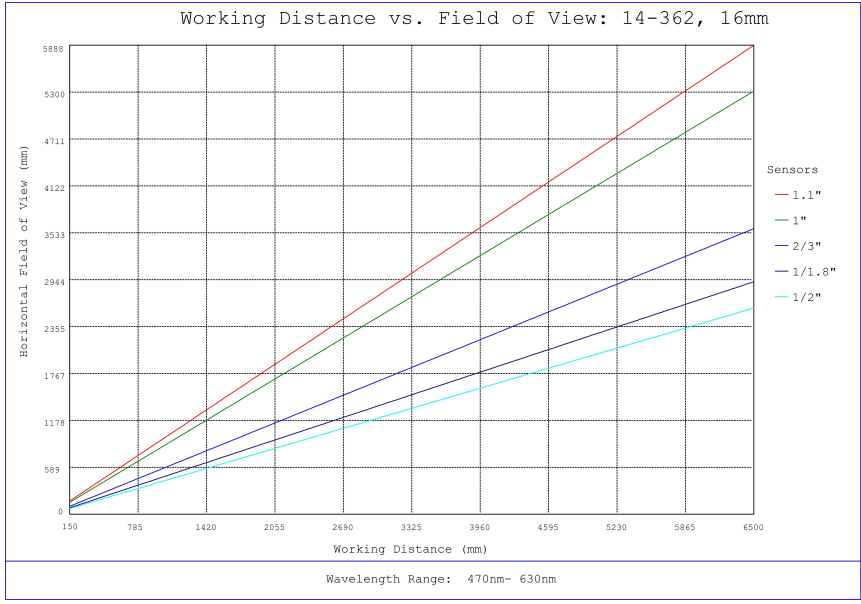
TECHNICAL INFORMATION



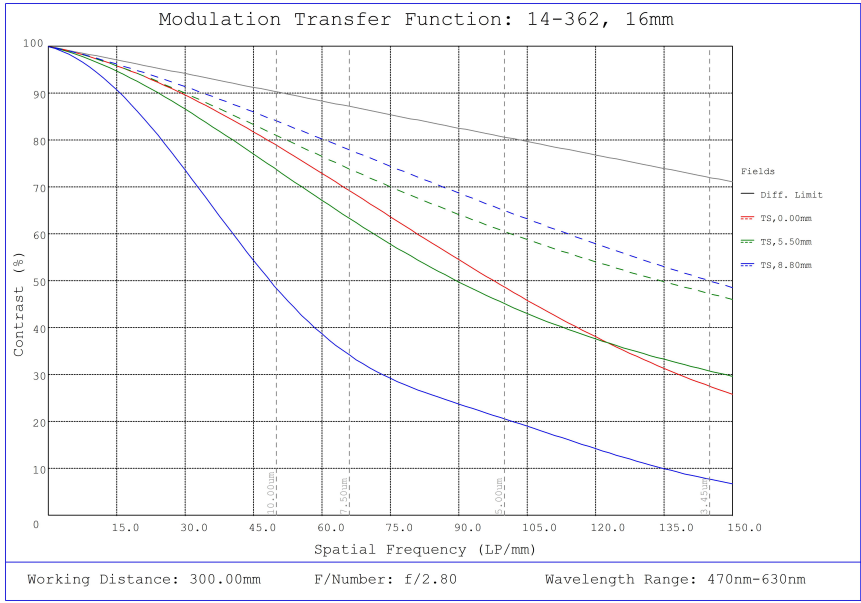
#14-362, 16mm LT Series Fixed Focal Length Lens, Distortion Plot



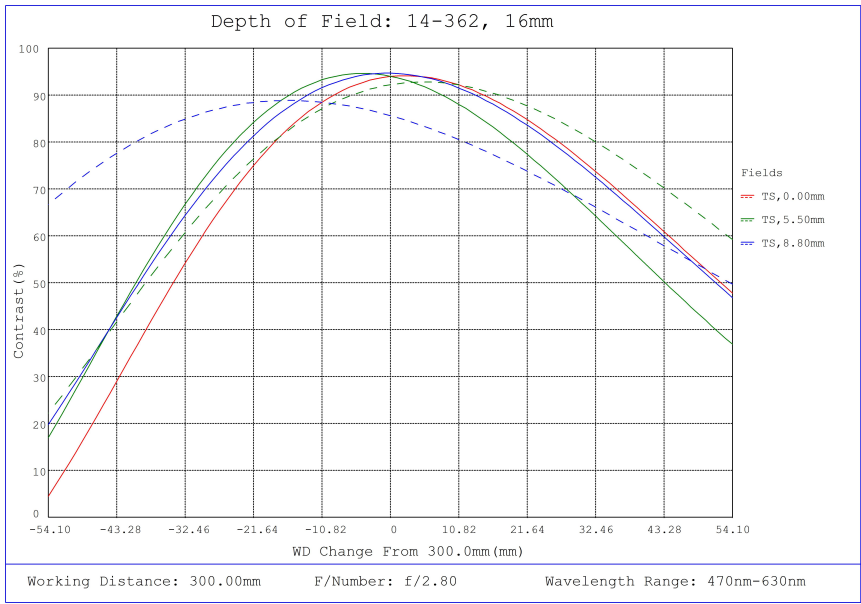
#14-362, 16mm LT Series Fixed Focal Length Lens, Relative Illumination Plot



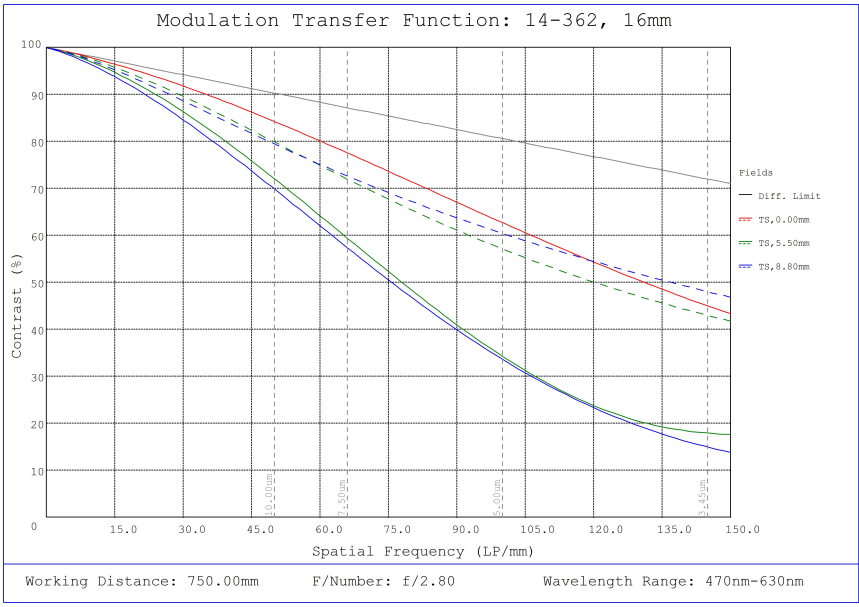
#14-362, 16mm LT Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



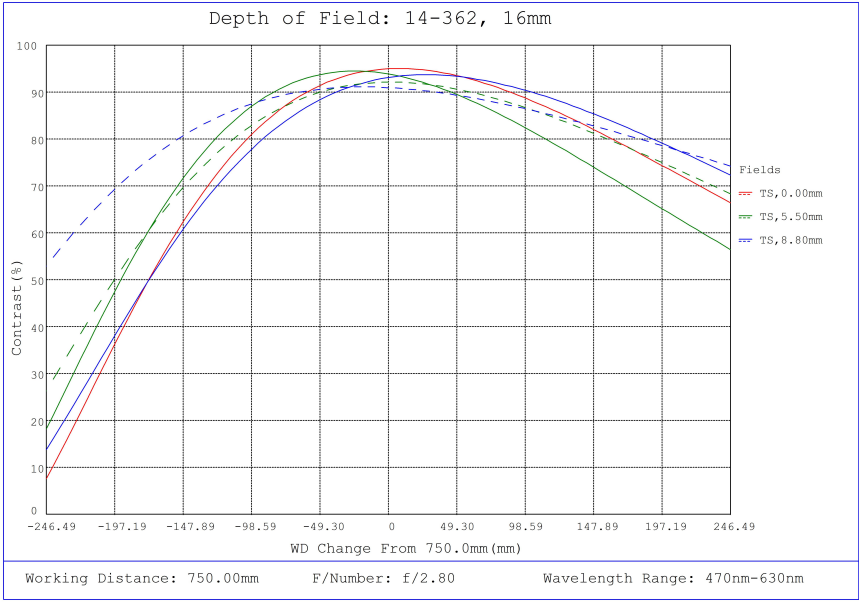
#14-362, 16mm LT Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, $f2.8$



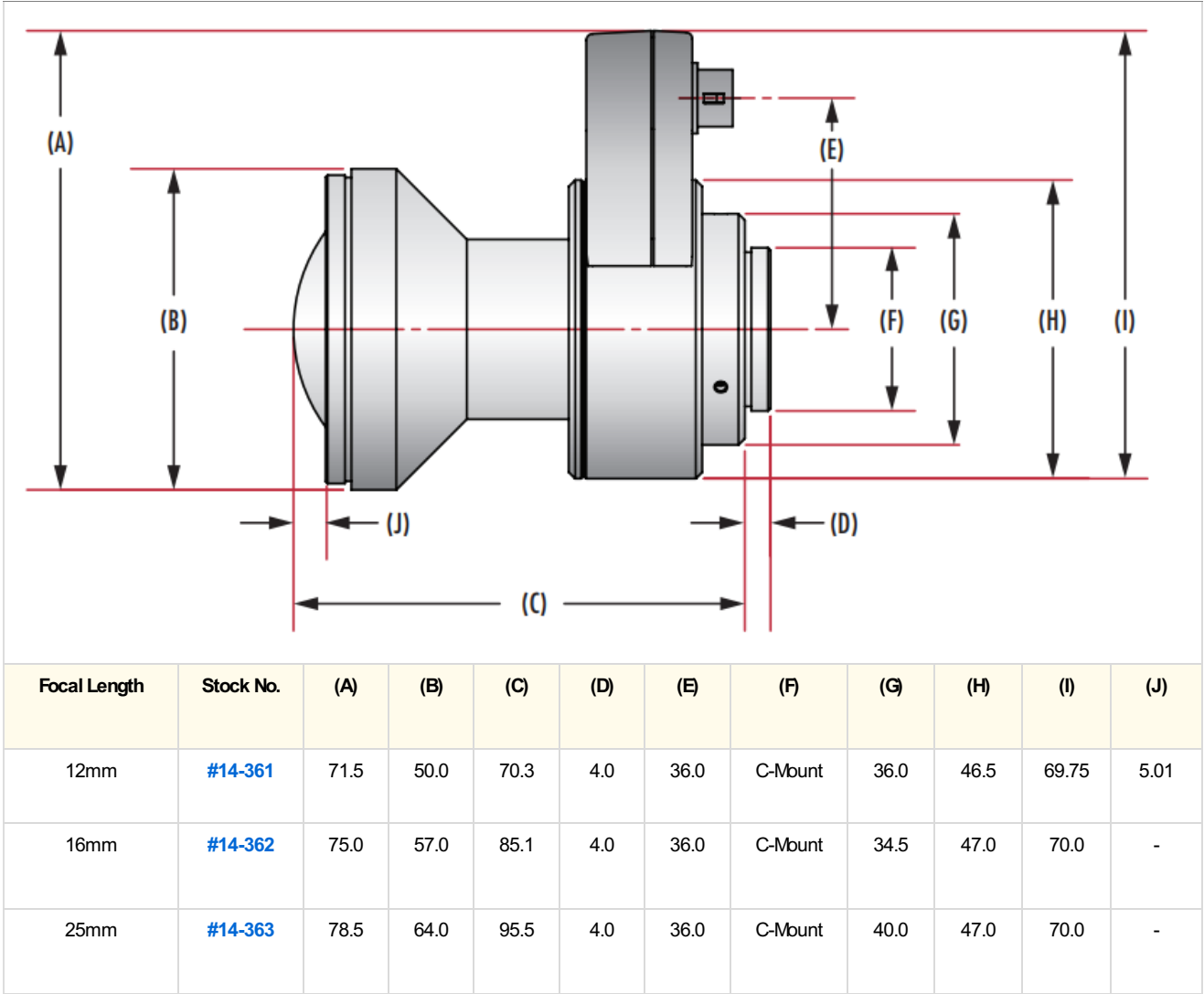
#14-362, 16mm LT Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, $f2.8$



#14-362, 16mm LT Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f2.8



#14-362, 16mm LT Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f2.8



COMPATIBLE CAMERAS