

TECHSPEC® 1X, 300mm WD, In-Line CompactTL™ Telecentric Lens



300mm WD, 1X, In-Line Version (Left) and MS Version (Right)



Stock #33-114 20+ In Stock

-

1

+

£936^{.00}

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Volume Pricing	
Qty 1+	£936.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
CompactTL™ Series	Series:
Edmund Optics®	Manufacturer:
Telecentric Lens	Type:

Compatible Light Guide/Source:
1/4" (0.312") and 1/8" (0.187")

Type of Illumination:
In-Line Illumination

Physical & Mechanical Properties

Iris Option:
Fixed
Length (mm):
174.50
Length excluding Threads (mm):
174.50
Maximum Diameter (mm):
36
Weight (g):
158

Optical Properties

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:
0.035
Working Distance Tolerance (mm):
±2
Number of Elements (Groups):
6 (5)
Typical Telecentricity @ 588nm (°):
0.035
Typical Distortion @ 588nm (%):
0.0054
Primary Magnification PMAG:
1X
Telecentric Lens Magnification:
1.00
Working Distance (mm):
300
FOV @ Max Sensor Format, H x V (mm):
8.8 x 6.6
Aperture (f/#):
f/14.2
Coating:
λ/4 MgF ₂
Depth of Field (mm):
±0.71mm (20% @ 20 lp/mm)
Magnification:
1X
Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
2/3"
Pixel Size (µm):
4.50

Threading & Mounting

Filter Thread:
M34.0 x 0.50 (Female)
Mount:
C-Mount

Regulatory Compliance

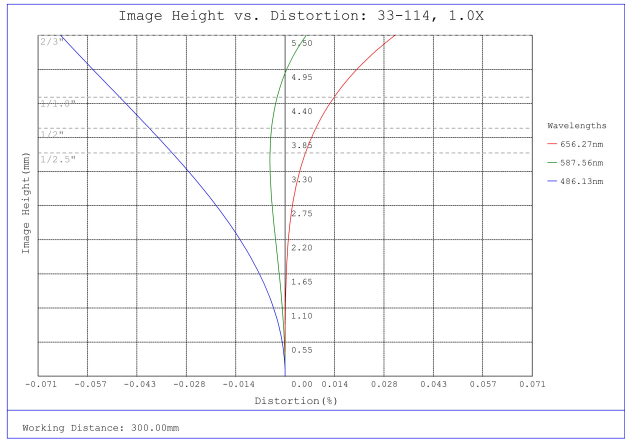
RoHS 2015:
Compliant
Certificate of Conformance:
View
REACH 241:
Compliant

Product Details

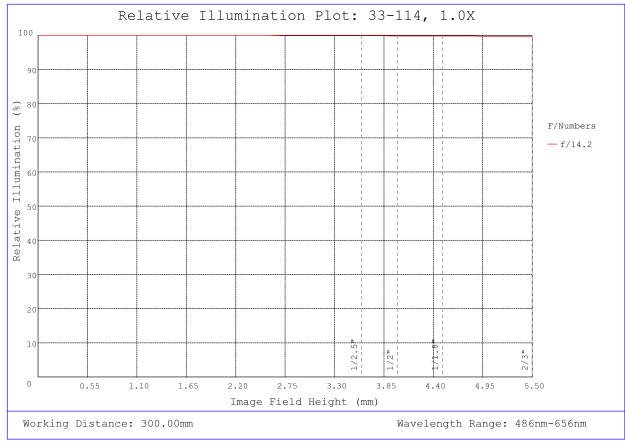
- 2/3", C-Mount Telecentric Lens
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Small Telecentric Lens with Coaxial Illumination Options

TECHSPEC® CompactTL™ Telecentric Lenses are designed for applications with tight space constraints due to their ultra-compact design. These lenses feature a 2/3" sensor format and a variety of different working distance and magnification options. From single unit to high volume implementation, these lenses provide a great price to performance ratio. TECHSPEC® CompactTL™ Telecentric Lenses are perfect for integration into gauging systems due to their excellent telecentricity and low distortion. The fixed iris and lockable focus make these lenses ideal for implementation into factory floors and assembly lines, as they will remain fixed over time.

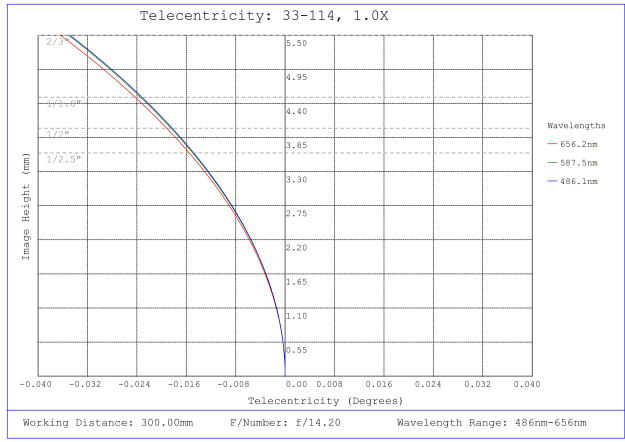
Technical Information



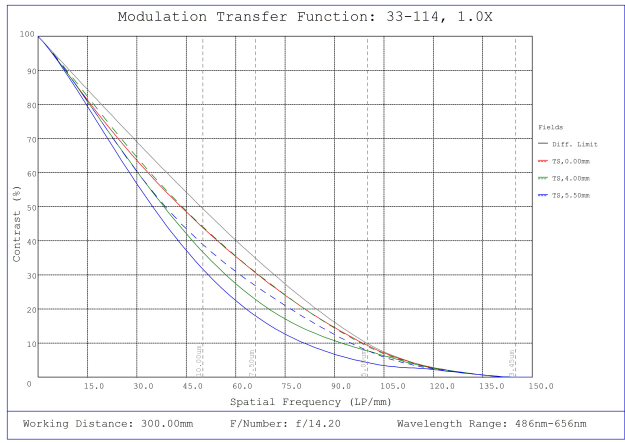
#33-114, 1X, 300mm WD, In-Line CompactTL™ Telecentric Lens, Distortion Plot



#33-114, 1X, 300mm WD, In-Line CompactTL™ Telecentric Lens, Relative Illumination Plot



#33-114, 1X, 300mm WD, In-Line CompactTL™ Telecentric Lens, Telecentricity Plot



#33-114, 1X, 300mm WD, In-Line CompactTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f14.2



#33-114, 1X, 300mm WD, In-Line CompactTL™ Telecentric Lens, Depth of Field Plot, 300mm Working Distance, f14.2