

TECHSPEC® 1X, 40mm WD, In-Line CompactTL™ Telecentric Lens



40mm WD, 1X, In-Line Version (Left) and MS Version (Right)



Stock #67-319 3-4 DAYS

- 1 + €1.000⁰⁰

ADD TO CART

Qty 1+

€1.000,00

Volume Pricing

[Request Quote](#)

! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Note:
CompactTL™

Manufacturer:
Edmund Optics®

Type:
Telecentric Lens

Style:
In-Line Illumination

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

Physical & Mechanical Properties

Iris Option:
Fixed

Length excluding Threads (mm):
53.50

Maximum Diameter (mm):
18.00

Weight (g):
44

Optical Properties

Horizontal Field of View, 1/2" Sensor:
6.4mm

Horizontal Field of View, 2/3" Sensor:
8.8mm

Horizontal Field of View, 1/3" Sensor:
4.8mm

Maximum Image Circle (mm):
11.00

Numerical Aperture NA, Object Side:
0.045

Working Distance Tolerance (mm):
±1

Number of Elements (Groups):
6 (5)

Typical Telecentricity @ 588nm (°):
0.02

Typical Distortion @ 588nm (%):
0.0083

Primary Magnification PMAG:
1X

Working Distance (mm):
40

Aperture (f#):
f/11

Coating:
λ/4 MgF₂

Depth of Field (mm):
±0.5mm (20% @ 20 lp/mm)

FOV @ Max Sensor Format, H x V (mm):
8.8 x 6.6

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
2/3"

Threading & Mounting

Filter Thread:
M25.5 x 0.50 (Female)

Filter Thread Adapter:
[#88-212 \(Required\)](#)

Front Thread:
M17 x 0.5 (Female)

Mount:
C-Mount

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

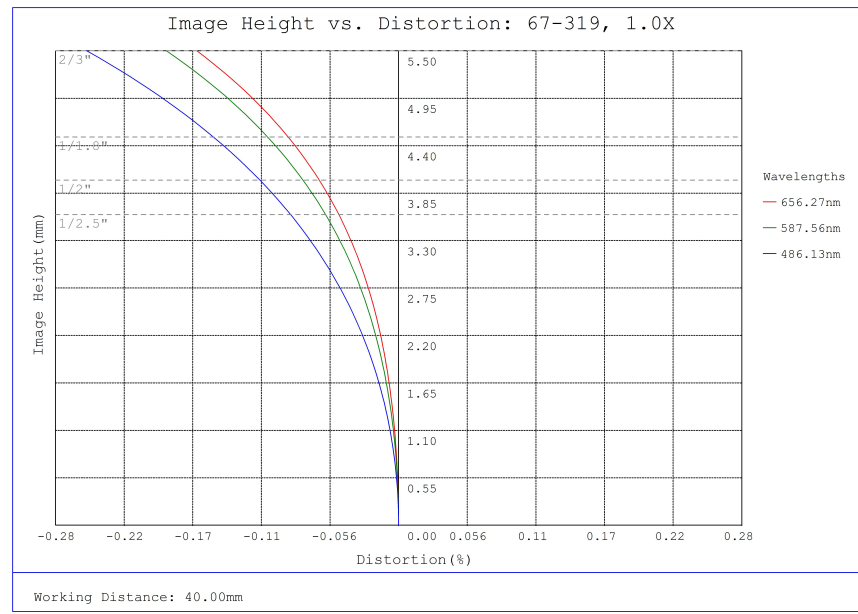
REACH 241:
[Compliant](#)

PRODUCT DETAILS

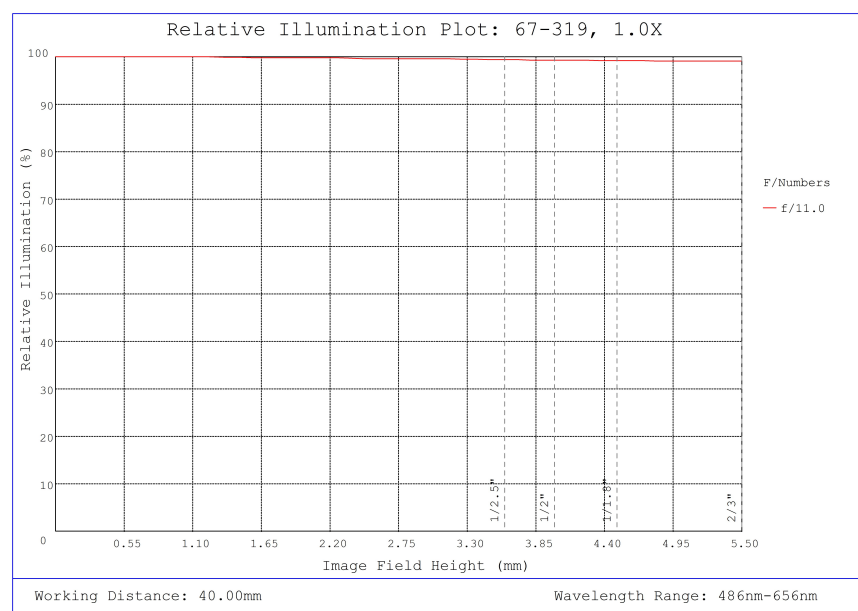
- 2/3", C-Mount Telecentric Lens
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Small Telecentric Lens with Coaxial Illumination Options

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.

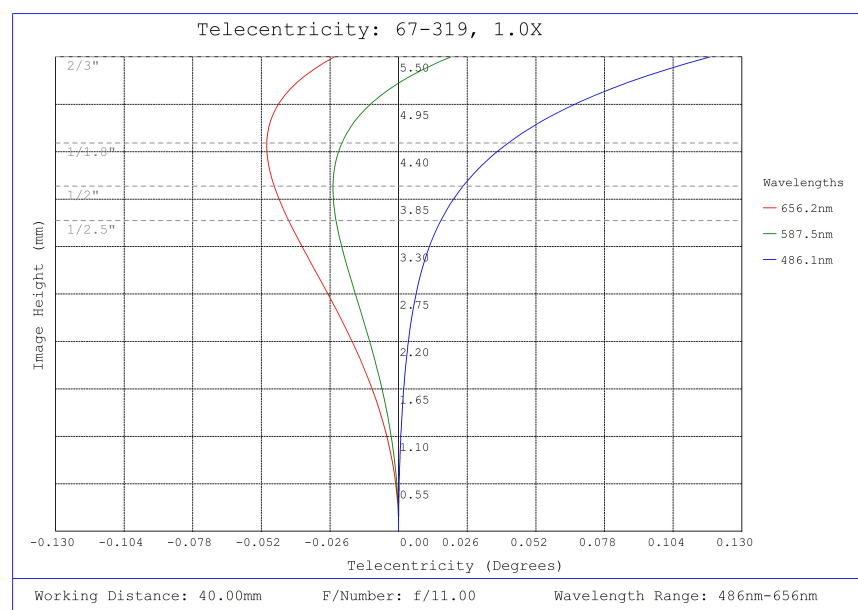
TECHNICAL INFORMATION



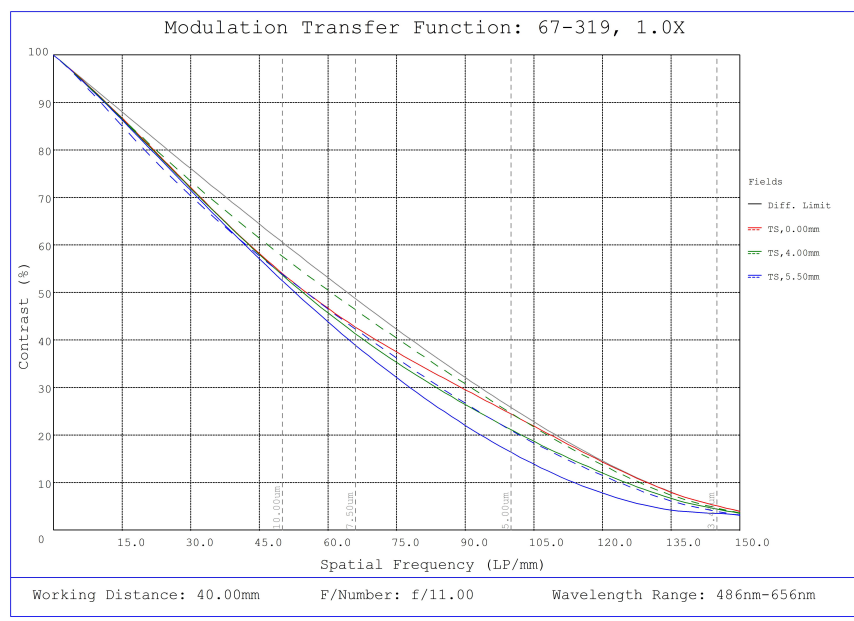
#67-319, 1X, 40mm WD, In-Line CompactTL™ Telecentric Lens, Distortion Plot



#67-319, 1X, 40mm WD, In-Line CompactTL™ Telecentric Lens, Relative Illumination Plot



#67-319, 1X, 40mm WD, In-Line CompactTL™ Telecentric Lens, Telecentricity Plot



#67-319, 1X, 40mm WD, In-Line CompactTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 40mm Working Distance, f11



#67-319, 1X, 40mm WD, In-Line CompactTL™ Telecentric Lens, Depth of Field Plot, 40mm Working Distance, f11