

TECHSPEC® 100mm, M40 Mount, CA Series Fixed Focal Length Lens



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1

+

€960^{.00}

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General	
CA Series	Series:
Fixed Focal Length Lens	Type:
High Performance Lens	Imaging Lens Type:

Physical & Mechanical Properties	
Variable	Iris Option:
132.97	Length (mm):
61	Maximum Diameter (mm):
61	Outer Diameter (mm):
0	Maximum Rear Protrusion (mm):
Optical Properties	
102.1mm - 12.7°	Horizontal Field of View, APS-C Sensor:
78.8mm - 9.8°	Horizontal Field of View, 4/3" Sensor:
64.7mm - 8.1°	Horizontal Field of View, 1.1" Sensor:
57.6mm - 7.3°	Horizontal Field of View, 1" Sensor:
40.1mm - 5.0°	Horizontal Field of View, 2/3" Sensor:
32.8mm - 4.1°	Horizontal Field of View, 1/1.8" Sensor:
28.8mm - 3.7°	Horizontal Field of View, 1/2" Sensor:
26.4mm - 3.3°	Horizontal Field of View, 1/2.5" Sensor:
21.9mm - 2.7°	Horizontal Field of View, 1/3" Sensor:
16.4mm - 2.1°	Horizontal Field of View, 1/4" Sensor:
27.90	Maximum Image Circle (mm):
0.0318	Numerical Aperture NA, Object Side:
8 (5)	Number of Elements (Groups):
100.00	Focal Length FL (mm):
500 - ∞	Working Distance (mm):
Horizontal: 101.7mm - 12.7° Vertical: 76.3mm - 9.6° Diagonal: 127.2mm - 15.9°	FOV @ Max Sensor Format, H x V (mm):
f/2.8 - f/22	Aperture (f/#):
λ/4 MgF ₂	Coating:
λ/4 MgF ₂	Coating Specification:
56.63	Entrance Pupil Position (mm):
48.89	Object Space Principal Plane (mm):
-51.79	Image Space Principal Plane (mm):
0.05	Maximum Distortion (%):
-44.61	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:
Sensor	
APS-C	Maximum Sensor Format:
2.74	Pixel Size (μm):
Threading & Mounting	
	Filter Thread:

M46 x0.75 (Female)	
M40 x0.75	Mount:
Environmental & Durability Factors	
Storage Temperature (°C): -20 to +60 For questions regarding operating temperature please contact our support team	
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- APS-C (27.9mm), TFL-Mount Lens or M40 Mount Lens
- Greater than 30 MegaPixels, 3.45µm Pixel Size Sensors
- High Resolution, Compact APS-C Lens (CA)
- 35mm to 100mm Focal Length

TECHSPEC® CA (Compact APS) Series Fixed Focal Length Lenses are designed for high-resolution large-format sensors. Covering the APS-C format sensors with a 28mm image circle, these lenses feature a [TFL Mount](#) or M40 Mount. TFL Mounts feature an M35 x0.75 thread with a 17.5mm flange distance, and offer the same robustness and ease of use as a C-Mount. M40 Mounts feature a M52 x0.75 thread with a 17.526mm flange and provide a robust, large-format mounting solution ideal for high-resolution and larger image sensors with improved mechanical stability and optical performance compared to smaller format mounts. TECHSPEC® CA Series Fixed Focal Length Lenses offer a compact size while accommodating large format sensors, making them ideal for machine vision and [factory automation](#) applications.

These lenses won the [3rd place 2020 Inspect Award](#) and the [Silver-Level 2020 VSD Innovators Award](#).