

**TECHSPEC® 35mm, M40 Mount, CA Series Fixed Focal Length Lens**



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⊖ 1 ⊕ £728<sup>00</sup>

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**General**

CA Series **Product Family:**

Fixed Focal Length Lens **Type:**

High Performance Lens **Imaging Lens Type:**

## Physical & Mechanical Properties

Variable	Iris Option:
74.90	Length (mm):
50	Maximum Diameter (mm):
50	Outer Diameter (mm):
0	Maximum Rear Protrusion (mm):

## Optical Properties

137.3mm - 35.4°	Horizontal Field of View, APS-C Sensor:
106.1mm - 27.7°	Horizontal Field of View, 4/3" Sensor:
87.1mm - 22.9°	Horizontal Field of View, 1.1" Sensor:
78.5mm - 20.7°	Horizontal Field of View, 1" Sensor:
54.0mm - 14.3°	Horizontal Field of View, 2/3" Sensor:
44.1mm - 11.7°	Horizontal Field of View, 1/1.8" Sensor:
39.2mm - 10.4°	Horizontal Field of View, 1/2" Sensor:
35.6mm - 9.5°	Horizontal Field of View, 1/2.5" Sensor:
29.4mm - 7.8°	Horizontal Field of View, 1/3" Sensor:
22.1mm - 5.9°	Horizontal Field of View, 1/4" Sensor:
27.90	Maximum Image Circle (mm):
0.0275	Numerical Aperture NA, Object Side:
8 (7)	Number of Elements (Groups):
35.00	Focal Length FL (mm):
200 - ∞	Working Distance (mm):
Horizontal: 136.8mm - 35.3° Vertical: 102.6mm - 26.9° Diagonal: 171.1mm - 43.4°	FOV @ Max Sensor Format, H x V (mm):
f/2.8 - f/16	Aperture (f/#):
N4 MgF <sub>2</sub>	Coating:
N4 MgF <sub>2</sub>	Coating Specification:
21.77	Entrance Pupil Position (mm):
43.99	Object Space Principal Plane (mm):
-14.08	Image Space Principal Plane (mm):
-3.01	Maximum Distortion (%):
-74.77	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

## Sensor

APS-C	Maximum Sensor Format:
2.74	Pixel Size (μm):

## Threading & Mounting

M40.5 x 0.50 (Female) **Filter Thread:**

M40 x 0.75 **Mount:**

## Environmental & Durability Factors

**Storage Temperature (°C):**  
-20 to +60 For questions regarding operating temperature please contact our support team

## Regulatory Compliance

**Certificate of Conformance:**  
[View](#)

## 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 x 0.75 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 x 0.75 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](#).