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



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



Stock #29-263 **14 In Stock**

⊖ 1 ⊕ **\$1,225⁰⁰**

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| Qty 1+ | \$1,225.00 each |
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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: |
| 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/#): |
| M4 MgF ₂ | Coating: |
| M4 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

| | |
|---------------------|----------------|
| M46 x 0.75 (Female) | Filter Thread: |
|---------------------|----------------|

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

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 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 M62 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](#).