

TECHSPEC® Hypercentric Lens for 2/3" Sensors



Hypercentric Lenses



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General

Hypercentric Series **Series:**

33.00 **Maximum Viewing Angle, MVA (°):**

Circular Image on Max Sensor **Note:**

Hypercentric Lens **Type:**

Hypercentric **Special Type of Lens:**

Physical & Mechanical Properties

Variable **Iris Option:**

158.00 **Length (mm):**

55.9 **Maximum Diameter (mm):**

Optical Properties

11.00 **Maximum Image Circle (mm):**

37.2 **Near Aperture, T (mm):**

19.5 **Working Distance (mm):**

Variable **Aperture (f/#):**

28.2 **Convergence Point Distance, CPD (mm):**

9.5 **Depth of Field (mm):**

11.5 **Far Aperture, B (mm):**

Not Applicable **Magnification:**

VIS **Lens Wavelength Range:**

Sensor

2/3" **Maximum Sensor Format:**

2.74 **Pixel Size (μm):**

Threading & Mounting

N/A **Filter Thread:**

C-Mount **Mount:**

Regulatory Compliance

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

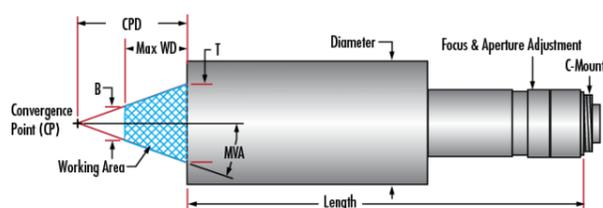
Product Details

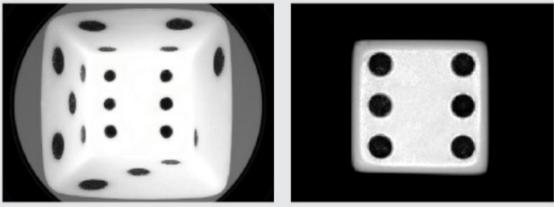
- Simultaneously Images the Sides and Top of an Object
- Up to 2/3" Hypercentric or Pericentric Lens
- C-Mount Lens
- Ideal for Component Inspection

TECHSPEC® Hypercentric Lenses provide a converging view of an object, focusing on the top and surrounding sides simultaneously, and are used to eliminate the need for multiple camera and imaging lens setups in machine vision inspection or identification applications. TECHSPEC® Hypercentric Lenses are ideal for inspecting parts such as pharmaceutical vials, batteries, or automotive parts. These imaging lenses provide a conical-shaped working area, and are optimized for use with monochromatic light. When 0.5 – 1.5mm spacers are positioned between the lens and camera, TECHSPEC® Hypercentric Lenses can also be used as long working distance borescopes, simultaneously focusing on the internal walls and bottom surface of an object. The borescope working distance is the area past the convergence point (CP) of the standard working area. The use of larger spacers increases the borescope focus distance.

Note: All specifications are defined at 660nm.

Technical Information





Images of dice using a Hypercentric Lens (left) and a Fixed Focal Length Lens (right)



Hypercentric Lens in Borescope Mode

