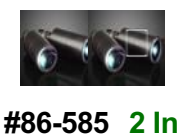
TECHSPEC® Hypercentric Lens for 1/2" Sensors

Hypercentric Lenses



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SPECIFICATIONS

General

Series:

Hypercentric Series

Maximum Viewing Angle, MVA (°):

33.00

Note:
Circular Image on Max Sensor

Type:
Hypercentric Lens

Special Type of Lens:
Hypercentric

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
160.00

Maximum Diameter (mm):
55.9

Optical Properties

Maximum Image Circle (mm):
8.00

Near Aperture, T (mm):
37.2

Working Distance (mm):
20.1

Aperture (f/#):
Variable

Convergence Point Distance, CPD (mm):
28.2

Depth of Field (mm):
14.00

Far Aperture, B (mm):
10.4

Magnification:
Not Applicable

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
1/2"

Pixel Size (µm):
2.74

Threading & Mounting

Filter Thread:
N/A

Mount:
C-Mount

Regulatory Compliance

Certificate of Conformance:
View

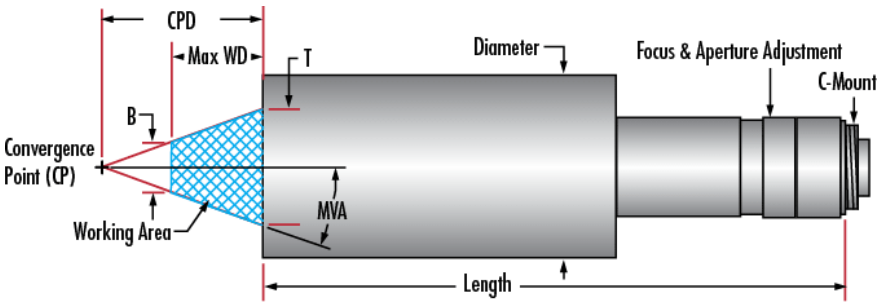
PRODUCT DETAILS

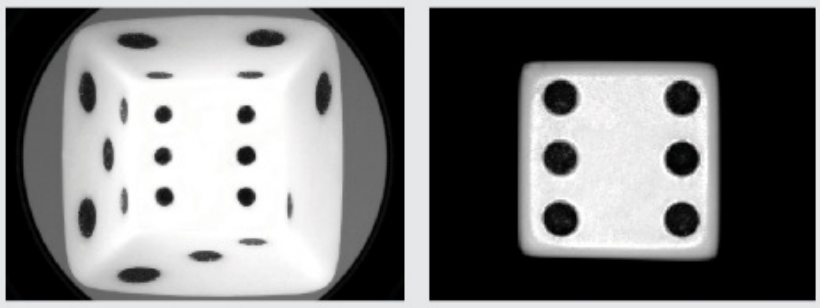
- Simultaneously Images the Sides and Top of an Object
- Up to 2/3" Hypercentric or Pericentric Lens
- C-Mount Lens
- Ideal for Component Inspection

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.

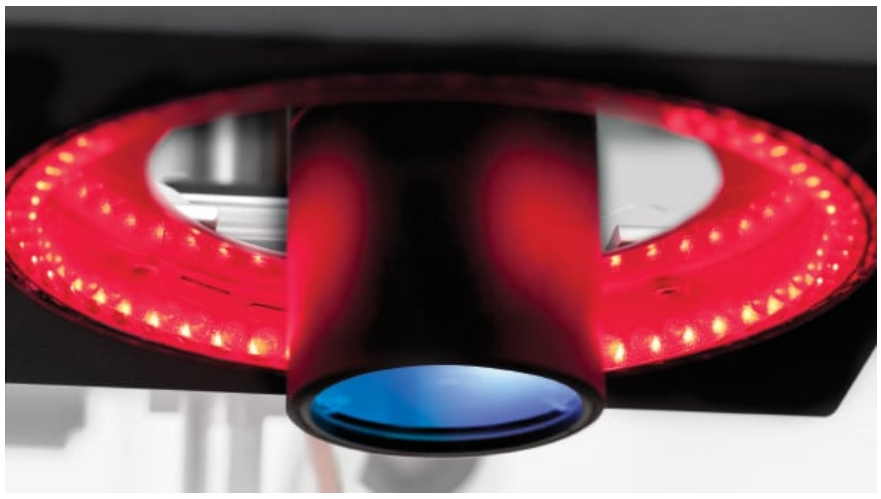
Note: All specifications are defined at 660nm.

TECHNICAL INFORMATION





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



Hypercentric Lens in Borescope Mode