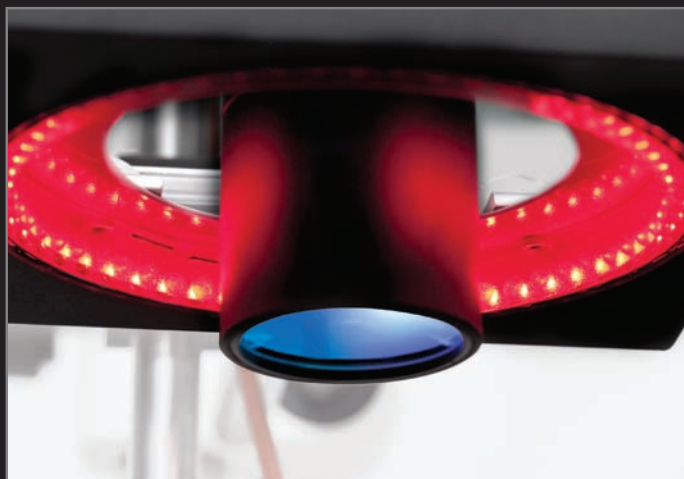


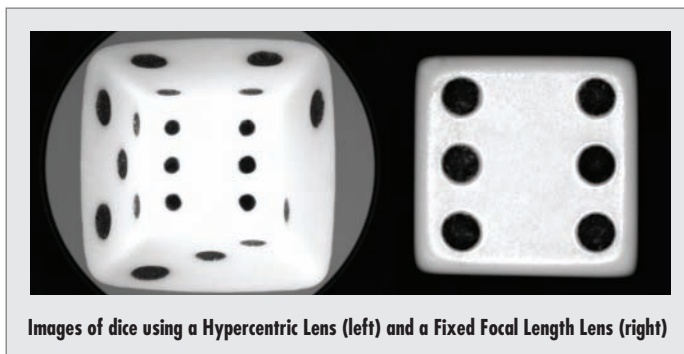
TECHSPEC® HYPERCENTRIC LENSES



- Simultaneously Images Top and Sides of an Object
- Can be used as a Long Working Distance Borescope
- 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 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 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, these 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.

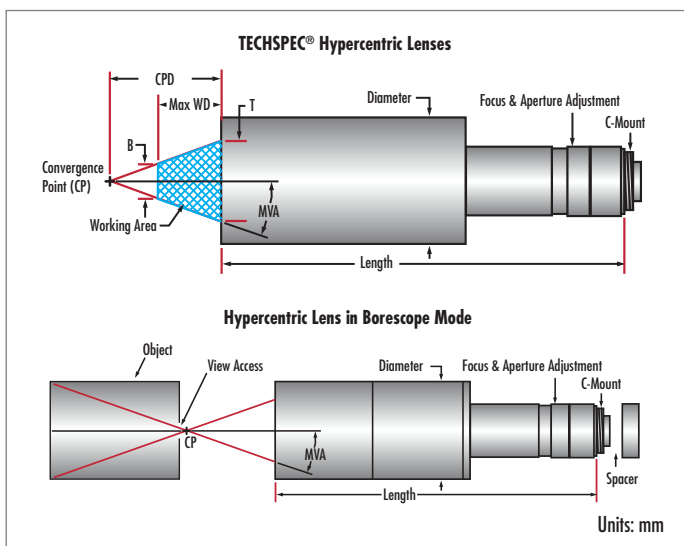
Note: All specifications are defined at 660nm.



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

TECHSPEC® HYPERCENTRIC LENSES			
Sensor Format (Vertical)*	1/8"	1/2"	3/8"
Convergence Point Distance (CPD):	28.2mm	28.2mm	28.2mm
T (Near aperture):	37.2mm	37.2mm	37.2mm
B (Far aperture):	9.4mm	10.4mm	11.5mm
Max. View Angle (MVA):	33°	33°	33°
Max. Working Distance (WD):	21.1mm	20.1mm	19.5mm
Max. Depth of Field:	18mm	14mm	9.5mm
Dimensions (Dia. X L):	58.9 x 176.4mm	58.9 x 160mm	58.9 x 158mm
Stock Number:	#86-584	#86-585	#86-586

*Circular Image is Produced on Maximum Sensor Format



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