



spec|FINDER^{HD}TM
High Definition Magnification

Digital Computer Microscope

DAZOR[®] 



speckFINDER^{HD}™

High Definition Magnification

speckFINDER HD[®] is the world's most advanced family of digital computer microscopes used for workstation applications and inspection in industrial, research, forensic, electronics, and other similar working environments.

What is speckFINDER[®]?

speckFINDER HD[®] is a visual imaging system used by people who need to see precise details of the objects they work with everyday, but also demand an alternative to the daily fatigue and limited functionality associated with common workstation microscopes and stereoscopes.

speckFINDER HD[®] technology completely integrates the technologies of high quality optics, digital cameras, LED lighting, glass displays, personal computing electronics, and mechanics, to produce a workstation-friendly computer video microscope. Unlike conventional microscopes or stereoscopes with which a user must conform their body to a machine, speckFINDER HD[®] technology allows the user to obtain a comfortable posture and then adjust the machine to their individual comfort needs. Single or multiple workers can view magnified images simultaneously and effortlessly.

Because speckFINDER HD[®] combines multiple optical and digital technologies, images can also be stored in multiple digital formats, networked, and software enhanced as needed. Measurement, drawing, call-outs, and overlays are all conveniently available within speckFINDER HD's standard technology package. Live or stored speckFINDER HD[®] images can be viewed on another display or projected onto an overhead screen for training, instructing, or supervising.



Articulating Arm

Available in 18" or 27" lengths
360° range of motion
Multi-angle head adjustment
200° of tilt



Smart LED Ring Light

The Smart LED Ring Light can be integrated into the speckFINDER system giving the user control over 80 high brightness or UV LEDs by using a wireless mouse. It can also be used with standard microscopes and cameras.



Why speckFINDER® technology?

speckFINDER HD® technology achieves optimal performance by optimally combining imaging technologies. Many applications require viewing, working with, inspecting, or measuring small objects and features. In order to achieve high quality system resolution, the optical lens must be able to resolve the smallest desirable detail. In addition to good image quality from the lens, the number of pixels in the camera has to be high enough to resolve the object resolution formed by the lens. Correct variable lighting is also a requirement so that the user can create the intended illumination environment so that the lens and camera can operate at their optimum ability.

Choice of Optics

Telecentric Lens. With a conventional fixed focal lens, objects closer to the lens will appear larger than objects farther from the lens. Telecentric lenses do not have this perspective error. The lack of perspective error makes telecentric lenses ideal for metrology and gauging applications. Telecentric lenses offer superior image quality at specific levels of magnification.



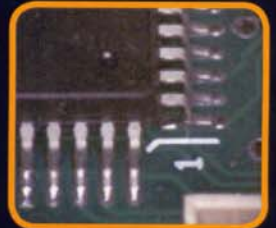
Variable Focus Lens. Variable Focus Zoom Lenses offer the flexibility of changing the focal length of the lens without making adjustments to working distance. The Variable Focus lens allows for different fields of view to be imaged at different magnification levels with minimal changes, such as fine focusing, to the overall speckFINDER HD® system. These lenses are ideal for applications where the entire object as well as small features within that object need to be inspected with the same imaging system.



Multiple mounting options available
Rolling stand SPECK1050-PRO shown here.

the GLOBAL LEADER in ILLUMINATION and MAGNIFICATION TOOLS

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Camera

speckFINDER HD's USB2.0 progressive scan camera is equipped with a host of features to allow the user to set a specified Area Of Interest, gain, exposure time, frame rate, and even digital output delay and duration. speckFINDER HD's camera software allows capturing of still images in JPEG and Bitmap file format or video in AVI format. In addition, the software can perform edge enhancement and image mirroring.

MAGNIFICATION				
Optics	Type	Minimum	Maximum	Fixed
SPECK-HD-V1	Variable Zoom	11X	45X	—
SPECK-HD-V2	Variable Zoom	22X	90X	—
SPECK-HD-T1	Telecentric (fixed)	—	—	5
SPECK-HD-T2	Telecentric (fixed)	—	—	10
SPECK-HD-T3	Telecentric (fixed)	—	—	20
SPECK-HD-T4	Telecentric (fixed)	—	—	40
SPECK-HD-T5	Telecentric (fixed)	—	—	85

FOV(mm) (max/min)				
Optics	Type	No Extender	0.5X Extender	0.25X Extender
SPECK-HD-V1	Variable Zoom	12mm/3mm	24mm/6mm	48mm/12mm
SPECK-HD-V2	Variable Zoom	6mm/1.5mm	12mm/3mm	24mm/6mm
SPECK-HD-T1	Telecentric (fixed)	25.6	—	—
SPECK-HD-T2	Telecentric (fixed)	12.8	—	—
SPECK-HD-T3	Telecentric (fixed)	6.4	—	—
SPECK-HD-T4	Telecentric (fixed)	3.2	—	—
SPECK-HD-T5	Telecentric (fixed)	1.6	—	—

WORKING DISTANCE (+/- 3mm)				
Optics	Type	No Extender	0.5X Extender	0.25X Extender
SPECK-HD-V1	Variable Zoom	-95mm	-152mm	-280mm
SPECK-HD-V2	Variable Zoom	-45mm	-76mm	-140mm
SPECK-HD-T1	Telecentric (fixed)	160mm	—	—
SPECK-HD-T2	Telecentric (fixed)	120mm	—	—
SPECK-HD-T3	Telecentric (fixed)	83mm	—	—
SPECK-HD-T4	Telecentric (fixed)	75mm	—	—
SPECK-HD-T5	Telecentric (fixed)	44mm	—	—

Notes: An extender is a lens which threads into the end of a zoom lens. It decreases magnification and increases working distance. Sold separately.

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