

**EVO Cam II**  
High definition  
digital microscope

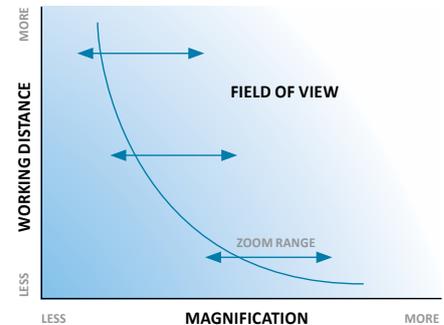


# TECHNICAL INFORMATION

There are several factors that are inseparable when selecting working magnification. As magnification increases, field of view and working distance decrease.



A range of objective lens options ensure optimum results for any application, whether for high magnification, high precision detailed inspections, or for manipulation, re-work and assembly tasks requiring an extra long working distance.



## Precision objective lenses

Ultra-high resolution and contrast, optimised for precision magnification work with definition excellence.

## Wide-field objective lenses

Wide field of view, provides maximum flexibility and large zoom range. Suitable for large area subjects.

## Micro objective lenses

High optical magnification of very small subject areas and details.

Objective lens	Magnification zoom range*	Working distance	Field of view at min.zoom	Field of view at max.zoom
<b>Precision objective lenses</b>				
0.45x	2.3x - 68x	160 mm	241 mm x 134 mm	7.8 mm x 4.2 mm
0.62x	3.1x - 93.7x	106 mm	173 mm x 96 mm	5.5 mm x 3.1 mm
1.0x	5x - 151.2x	85 mm	88 mm x 57 mm	3.5 mm x 2 mm
1.5x	7.6x - 226.8x	43 mm	45 mm x 36 mm	2.3 mm x 1.2 mm
2.0x	10x - 302.4x	29 mm	37 mm x 27 mm	1.5 mm x 1.0 mm
<b>Wide-field objective lenses</b>				
2 dioptre	0.8x - 24x	440 mm	660 mm x 370 mm	21.5 mm x 12.0 mm
3 dioptre	1.15x - 32.6x	300 mm	370 mm x 210 mm	14.7 mm x 8.4 mm
4 dioptre	1.71x - 51.41x	245 mm	293 mm x 171 mm	10 mm x 5.5 mm
5 dioptre	2.12x - 65.5x	197 mm	232 mm x 135 mm	8 mm x 4.5 mm
<b>Micro objective lenses</b>				
5x	250x - 362x	2.0 mm	2.2 mm x 1.2 mm	1.4 mm x 0.8 mm
10x	500x - 725x	2.1 mm	1.1 mm x 0.6 mm	0.7 mm x 0.4 mm

\*Using a 24 inch screen

## 360° Rotating viewer

Adding an extra dimension to standard 2D imaging, the 360° rotating viewer provides both direct and rotating oblique views of the subject and utilises the power of motion to enhance a users three dimensional understanding of the subject. Rotating around the centre of the image, the 34° degree oblique view allows views around the inside of holes or around the sides of raised components and solder joints.





MAIN SPECIFICATION	
Camera	Full HD
Surface illumination	8-point ring light. Colour temperature 5,500K (adjustable with filter options)
Sub-stage illumination	Optional
Front panel control	On/Off, zoom in, zoom out, overview, surface illumination level, sub-stage illumination level, image capture, menu
Remote control	Optional
Interfaces	HDMI, USB3 (PC connection), USB2 (stand alone image capture), WiFi (optional)
CAMERA SPECIFICATION	
Camera zoom	30:1
Digital zoom	12:1
Camera resolution	1920x1080
Sensor	1/2.8" CMOS back-illuminated
Frame rate	50fps & 60fps (switchable)
Saved file type	PNG, JPEG+,JPEG,JPEG-
FEATURES	
Premium licence	Focus stacking (max.depth 110mm)
Inspection features	Image comparison, overlay, supervisor settings lock, customisable zoom range, save/import/export settings
Reporting features	Image capture, time stamp
Measurement features	Virtual caliper (x-axis separation, y-axis separation, diagonal - point-to-point), scaleable grid, overlays, calibration tracking
General features	Image capture, image playback, noise reduction, light control
Exposure control	Auto, aperture priority, manual
Focus control	Auto, manual
Keypad shortcuts	Presets, white balance, front panel lock, AE/ME switching, AF/MF switching
Features retained in supervisor mode	Image capture, zoom, lighting control, overlay on/off, caliper on/off, grid on/off, recall presets 1-10, image comparison on/off, image playback, focus stacking (all other settings locked)
Features retained in front panel lock mode	Image capture
User programmable presets	10 (Save, import/export)
Image capture	USB memory stick or via PC connection
Languages	English, French, German, Spanish, Italian, Portuguese, Russian, Chinese, Japanese, Korean
Image mode	Auto white balance, black and white, wide dynamic range, noise reduction, infrared mode, capture button action

# VISION ENGINEERING + OUR DIFFERENCE

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## Innovation

With a philosophy of design innovation, Vision Engineering holds world patents for a number of optical/digital techniques, significantly improving viewing ergonomics and enabling customer quality and productivity improvements.

## Quality

Vision Engineering prides itself on quality products, electronics, mechanics and optics and is certified for the quality management system ISO 9001:2015. Quality is as important to us as it is to our customers. Our systems have proved themselves many times over and are chosen by the world's leading companies.

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