

EVO CAM HALO — POWERFUL — 4K IMAGE — INTUITIVE —

EVO Cam HALO digital microscope combines stunning 4K image quality with advanced, adaptive illumination to deliver unmatched precision and versatility for inspection and measurement tasks.

It excels at capturing fine details on reflective surfaces, including electro-polished finishes and solder joints. The Auto Lens ID feature ensures the correct magnification is always displayed, offering flexibility and adaptability for a wide range of inspection applications.

Excellent image quality

The 4K image sensor captures four times more detail than full HD cameras and high dynamic range preserves critical details in both dark and bright areas of the image.

Intelligent features

Customizable intelligent lighting options, including quadrant-controlled white, UV, and wide-area panel lights, fit directly to the camera and are easily swapped in seconds. The quick-clip ring-light automatically saves and recalls settings when connected, ensuring perfect brightness and contrast even in challenging conditions.

The Auto Lens ID feature, paired with the intelligent lens mount, automatically adjusts magnification settings, streamlining the workflow and guaranteeing accurate inspections every time.

Measure, analyze, report

EVO Cam HALO's software provides real-time insights, making it easier to detect anomalies and patterns that would otherwise go unnoticed. With intuitive image capture, measurement and analysis tools, the software ensures results are accurate and actionable, empowering you to make faster, data-driven decisions.



EVO Cam HALO fitted with 360-degree Oblique and Direct Viewer (ODV)



Outstanding
image quality



Magnification



Auto lens ID



Auto focus



Measurement
options



360° viewer
compatible

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EVO CAM HALO ————— TECHNICAL INFORMATION —————

Objective Lens	Magnification* Range	Working distance	Horizontal field of view at low magnification	Field of view at max. magnification	
				Optical zoom only	Digital zoom (x2)
X0.45	2.16 - 43.2	6.77" (172mm)	11.61" (295mm)	0.65" (16.5mm)	0.31" (8.0mm)
X0.62	2.97 - 59.4	4.72" (120mm)	9.05" (230mm)	0.47" (12.0mm)	0.23" (6.0mm)
X1.0	4.8 - 96	3.30" (84mm)	3.74" (95mm)	0.29" (7.5mm)	0.15" (3.8mm)
X1.5	7.2 - 144	1.69" (43mm)	1.85" (47mm)	0.19" (5.0mm)	0.09" (2.5mm)
X2.0	9.6 - 192	1.18" (30mm)	1.14" (29mm)	0.13" (3.5mm)	0.07" (1.8mm)
2D	0.84 - 16.8	19.69" (500mm)	17.91" (455mm)	1.43" (36.5mm)	0.72" (18.3mm)
3D	1.26 - 25.2	12.99" (330mm)	16.41" (417mm)	0.94" (24mm)	0.47" (12.0mm)
4D	1.68 - 33.6	9.84" (250mm)	12.40" (315mm)	0.70" (18mm)	0.35" (9.0mm)
5D	2.11 - 42.2	7.87" (200mm)	9.25" (235mm)	0.57" (14.5mm)	0.28" (7.3mm)
x5 Micro **	11.70 - 234 x	0.83" (21 mm)	0.5" (12.05 mm)	0.09" (2.5mm)	0.05" (1.3 mm)
x10 Micro**	23.41 - 468 x	0.83" (21 mm)	0.17" (4.4 mm)	0.05" (1.3 mm)	0.027" (0.7 mm)

* Based on 27" screen

** Limited zoom availability

STAND OPTIONS



VERSO Arm



Ergo



Multi-axis



Double-arm boom

POPULAR APPLICATIONS

Electronics and coatings

Electronics manufacturing requires clear, accurate view of printed circuit boards, plated through holes, components, solder masks, solder joints, and much more. EVO Cam HALO provides a clear view of highly reflective fresh solder enabling inspectors to assess reflow quality and much more. The white and UV ring-light allows easy inspection of and through fluorescent coatings.

Medical Device

Consistency of inspections and clarity of the finest detail is essential in medical device manufacture. HALO's Presets deliver one-press recall of settings. Intelligent features ensure accurate display of magnification and lighting for subjects and 'limit zoom' defining the range of inspection.

Micro mechanics

Precision engineering requires clear and precise view of every detail and the ability to confirm items are correct to specification. HALO's optimized illumination and ViPlus software, empower accurate and efficient reporting of components and assemblies ensuring clear details meet the essential criteria.



SPECIFICATIONS

Features	
Focus control	AutoFull, AutoSpot or Manual Focus
Exposure control	AutoFull, AutoSpot, Aperture Priority, Shutter Priority, Manual
Lighting control	Quadrant, White/UV and Brightness
Image control	Image Freeze, White Balance, Noise Reduction, Visibility Enhancer, Highlight Correction, Gamma, Mirror-Flip, Cross-hair
Frequency	30-25Hz (switchable)
Monitor size	7" - 100"
Zoom	Zoom-In, Zoom-Out, Zoom-To, Zoom-Limit
Information display	On, On When Changing, Magnification Only, Off
Languages	English, French, German, Italian, Portuguese, Spanish
Presets	3 User-settable Presets
Image Capture	Optional capture box or Via PC connection
Camera - Hardware	
Sensor	CMOS 1/2.5" 8.51 mega pixels
Image	Ultra HD 2160p (3840 x 2160)
Camera output	4K 2160p/30fps
Camera output on computer	4K 2160p/30fps on the PCI Express card
Zoom	20:1
Digital zoom	X12, X2, Off (selectable)
Lens mount	Auto-detect Bayonet
Interface	4K HDMI
Front Panel control	Image freeze, Zoom-In, Zoom-Out, Exposure Mode, Focus Mode, Menu, Ring-light Brightness, Sub-stage Brightness, Preset 1-3
Remote Control	Optional
Optics	11 AutoDetect Bayonet Mount Objective Lenses (see separate table)
Lighting Connection	Clip-on Intelligent Mount
Lighting	Intelligent 8-point Quadrant, Intelligent Wide-area Panel, Intelligent White/UV Quadrant, Sub-stage. External EPI, and Contrast-enhancing Illuminator
Lighting Filters	Polarization, Color Temperature Change
PC requirements	
Operating system	Windows 10 & 11
Processor	i7 or later version, 3GHz
Graphics	Graphics card with HDMI 2.0 or higher
Memory	8GB of RAM or more
Scalability	Slot for additional x4 or x8 PCI express card

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