# 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.

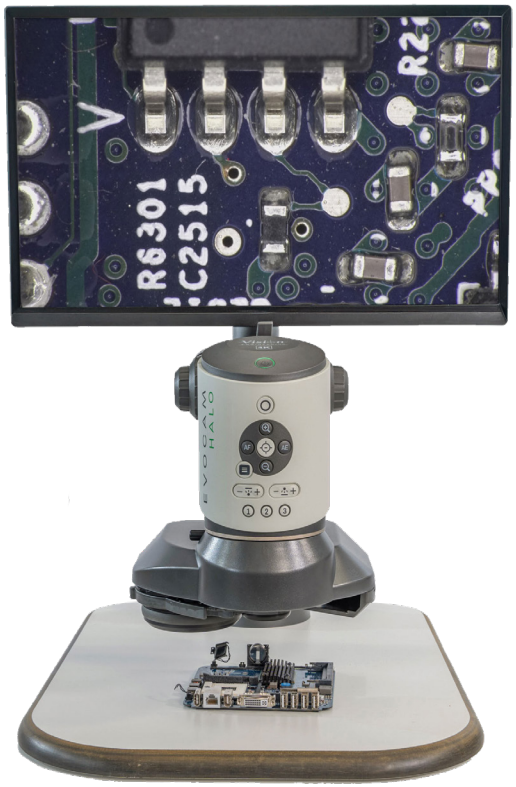
## Intelligent features

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)

4K ULTRA HD — Outstanding image quality

0.84x - 468x — Magnification

Auto lens ID

AF — Auto focus

Measurement options

360° — 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 if highly reflective fresh solder enabling inspectors to ass 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 ensures 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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