

Optimax

EVO Cam HALO 4K digital microscope



EVO Cam HALO 4K digital microscope


Patented Halo Illumination Technology
High-Definition Imaging & Software
Superior Ergonomics & Adjustable Design
Plug-and-Play Simplicity

EVO Cam HALO 4K digital microscope



Eliminate glare and uncover defects with perfect illumination



 Tired of the constant struggle against glare and reflective surfaces? Traditional ring lights often create hotspots and shadows that hide flaws, forcing operators to guess and leading to costly escapes. Our new solution, with its improved 4K sensor, delivers pristine, shadow-free light that reveals the truth of any surface. Uniform illumination is achieved through a sophisticated multi-point array. Ensure flawless quality, accelerate inspection times, and protect operators from eye strain.

The Evo Cam Halo is a advanced digital microscope system engineered for precision surface inspection. Its key differentiator is the patented Halo LED ring light that provides perfectly even, coaxial illumination directly along the axis of the lens. This eliminates the glare and hotspots typical of standard ring lights, ensuring every detail is visible in stunning HD clarity. It's more than a microscope; it's a clarity tool designed to boost accuracy and productivity on your production line.

Key Features & Benefits

- **Patented Halo Illumination Technology**

Achieve completely even, shadow-free lighting that eliminates glare on highly reflective surfaces such as gold traces, polished metals, and shiny plastics. Reveal the finest details that conventional lighting can obscure.

- **True 4K Ultra-HD Resolution & High Magnification**

High-resolution sensor and precision optics capture microscopic defects, fine textures, and sub-millimeter features invisible to the naked eye.

- **High-Definition Imaging and Software**

Record crystal-clear images and video for documentation, audit trails, and failure analysis. Measure features directly on-screen with intuitive tools.

- **Superior Ergonomics & Adjustable Design**

A flexible arm and lightweight camera head enable effortless positioning, reducing neck strain, eye fatigue, and operator error during long inspections.

- **Plug-and-Play Simplicity**

Start inspecting in minutes. Connect directly via HDMI for instant display, or use a USB connection to your PC for software control.



Ideal for

- **Electronics & PCB Assembly**

Perfect for inspecting solder joints, components, and traces without blinding glare.

- **Plastics, Packaging & Medical Devices**

Reveal micro-scratches, flow lines, surface defects, and contamination with absolute clarity.

- **Tooling, Moulding & Precision Engineering**

Perform detailed surface finish checks, defect analysis, and assembly verification in comfort.

Specification

Resolution 4K Ultra HD (3840 x 2160)

Magnification 20x - 200x Continuous Zoom

Lighting Patented Halo Light System

Connectivity USB 3.0 Plug-and-Play

Measurement On-Screen Software Tools

Sensor Type High-Quality CMOS

Compatibility Windows & macOS

Included Control Multi-Function Foot Pedal

Inspection & Metrology

With years of industry knowledge, we source the best inspection equipment, backed by a UKAS-accredited laboratory and dedicated support team. We help you confidently choose and implement inspection technology at the highest level of automation

Technical Services

- UKAS Calibration
- Consultancy & Training
- Programming
- Contract Inspection
- Repairs and Upgrades

Enquire at:

support@optimaxonline.com

or call our Support line on

01858 436944

Get in touch

To arrange a free no obligation demonstration or to discuss your particular application or requirement call or email us now.

Come and see us

Why not come along to our conveniently situated Midlands based showroom for a better look at what we can offer.

We are accredited to:

- UKAS ISO17025
- Safe Contractor
- Cyber Essentials
- Running on EOS
- Industry best practices for quality and security

UKAS Schedule covers:

- Height Gauges
- Shadowgraphs
- Microscopes
- Video CMM's
- Optical Shaft

01858 436940
sales@optimaxonline.com



Our trusted partners



Bruker alicon



Mahr

