



# ARTICLE

## 5 BENEFITS OF FOCUS STACKING WITH EVO CAM II DIGITAL MICROSCOPE

EVO Cam II digital microscope is a powerful imaging solution used across various industries for inspection and quality assurance because of its high-resolution imaging, intuitive controls, and adaptable design.

One of its key features is focus stacking, which combines multiple images taken at different focal depths to produce a single, fully focused image. This is especially valuable when inspecting objects with uneven surfaces or significant depth.

Here are the key benefits of focus stacking with EVO Cam II digital microscope:

### 1 Extended depth of field with focus stacking

Focus stacking combines multiple images taken at different focal planes into a single image. This ensures that the entire subject is in sharp focus, even when the subject has features (depth) beyond the depth of focus of a single exposure.

### 2 More accurate inspection and measurement

4K digital microscopes allow high-precision inspection of components and surfaces. Micro-cracks, contamination, poor soldering, and assembly errors become easier to detect. The combination of resolution and magnification helps prevent defects and reduce waste.

### 3 Faster inspections with automated image stacking

By automatically capturing and stacking images, EVO Cam II removes the need for manual focus adjustments during inspections, accelerating the process. This allows focus to shift to analysis rather than image capture.

### 4 Improved documentation and imaging

The high-quality, fully focused images produced by focus stacking provide a comprehensive record of inspections. These images can be used for detailed reporting and help in communicating findings to stakeholders, as they offer an accurate representation of the subject's condition.

### 5 Applications across research and industry

The focus stacking capability makes EVO Cam II a versatile tool for research and industrial environments for precise inspection, analysis, and development. It supports a more comfortable and collaborative way of working. It is a practical step toward more precise and efficient production.

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### Summary

The focus-stacking feature in EVO Cam II digital microscope adds extended depth of field, improves inspection accuracy, and supports faster, more efficient workflows. It is a valuable tool for quality assurance, inspection, and analysis across research and industrial environments.

### FAQ

**Q: What is focus stacking in a digital microscope?**

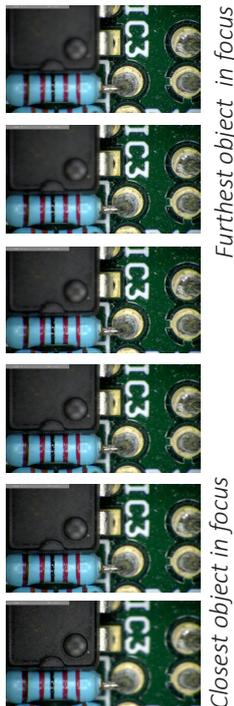
A: focus stacking combines multiple images taken at different focus depths to produce a single image with extended depth of field.

**Q: How does focus stacking improve digital microscope inspections?**

A: It brings every part of the subject into clear focus, even if features are at different heights. This makes it easier to spot faults and take accurate measurements during inspection.

**Q: Can EVO Cam II automate focus stacking?**

A: Yes. EVO Cam II can automatically capture and stack images, which saves time and removes the need for constant manual refocusing.



*Focussed-stacked image*

