# Inspection microscope solutions
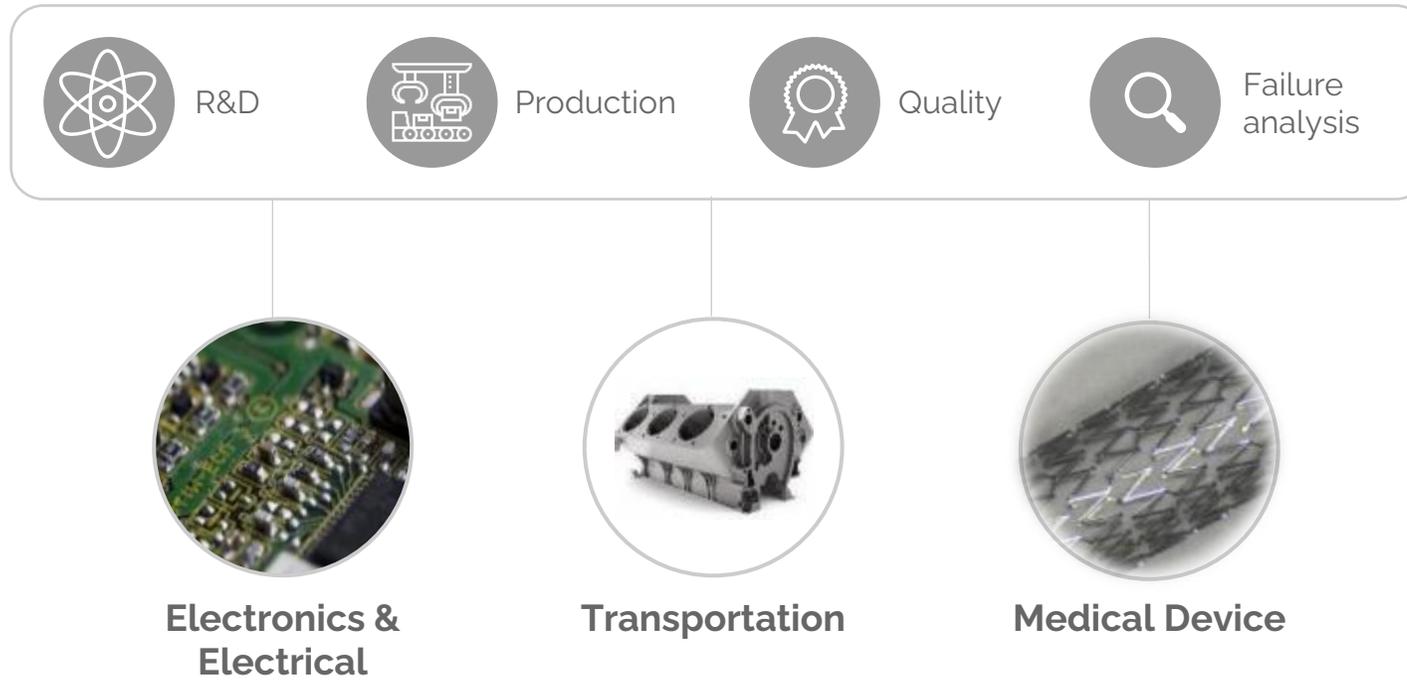powered by the
# Enersight software platform

From Eye to Insight

**Leica Microsystems offers a broad portfolio for inspection:**

- All operated with the consistent and intuitive Enersight software platform
- Enables you to optimize processes
- Ensures reliable results no matter the operation mode

R&D    Production    Quality    Failure analysis

**Electronics & Electrical**

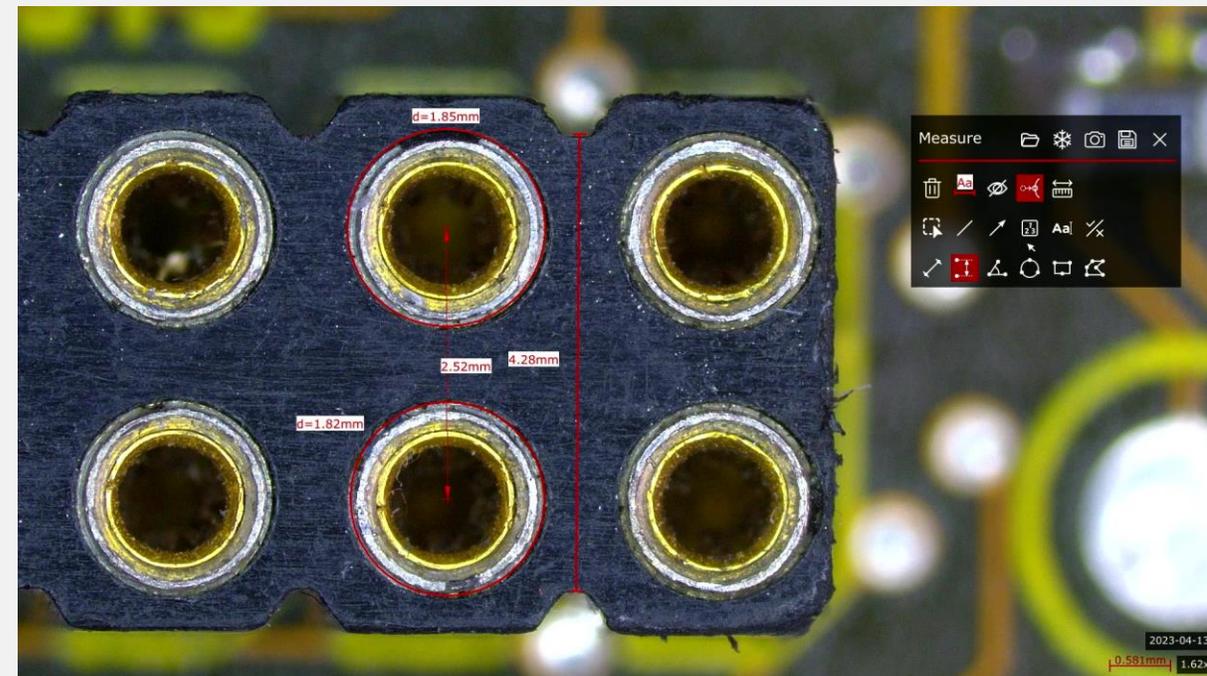**Transportation**

**Medical Device**

**Examples:**
- Electronics:      PCBA board, processor, wire bond, cross section, ball grid array (BGA), solder joint
- Transportation:   Bearing, mill blade, filter, clamp (fuel injection)
- Medical devices;   Stent, syringe, needle, vaccine vial, plastic manifold, nitinol/metallic tubing, catheter / tubing, dental screw
- Others:      Clockwork, bugs, plant, capsule, pill, blister, primary packaging

The all-in-one integrated software solution Enersight can improve your efficiency by helping you compare, measure, and share data easily.

**Inspect with a single system**

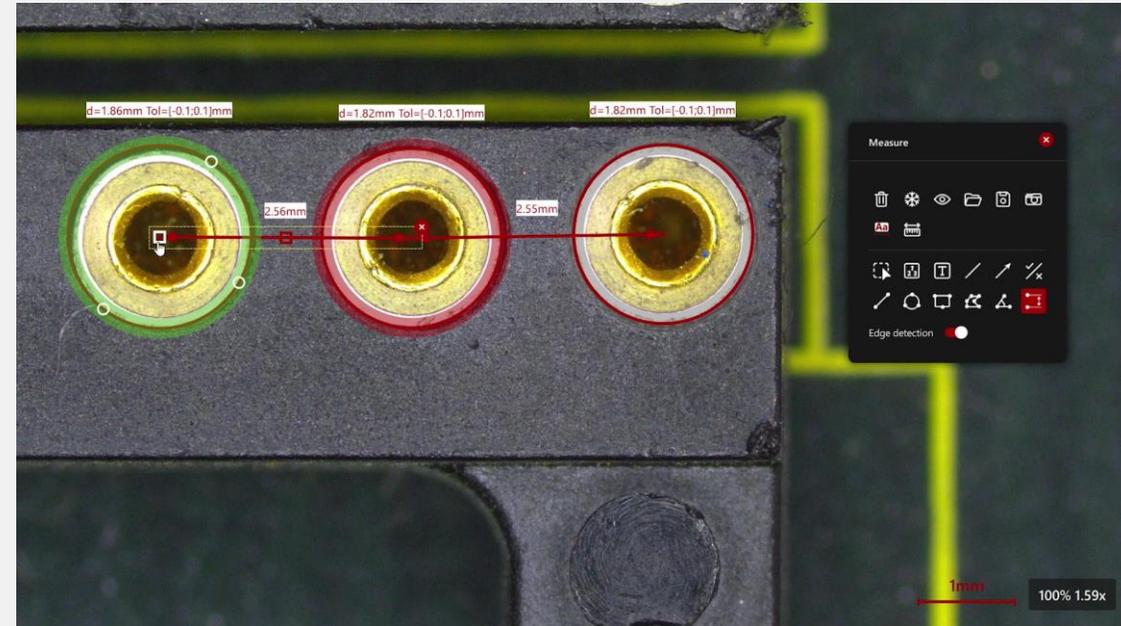**Measure directly during inspection, even without a PC**

- Take measurements on the go.
- Measure multiple sample features in the live image and save the results with it.
- Measure between any two points with the measurement tool.
- Use snap-to-edge assistance for accurate measurements.



Measurements done with the on-screen display (OSD).

**Directly compare to references with a single click**

- Make pass/fail decisions by directly comparing the live image to reference images or customized overlays.

- Judge whether your sample is out of specification by overlaying tolerance lines.



See quickly if samples are in spec with the help of tolerance lines (green and red circles).

**Identify defects more clearly**

- **Higher contrast live images with HDR:** Capture details on both light and dark areas of the sample in a single shot with high dynamic range (HDR) live imaging.

- **Highlight hard-to-see details:** Inspect thoroughly even samples with both transparent and reflective, opaque areas by inverting the image color with negative mode.
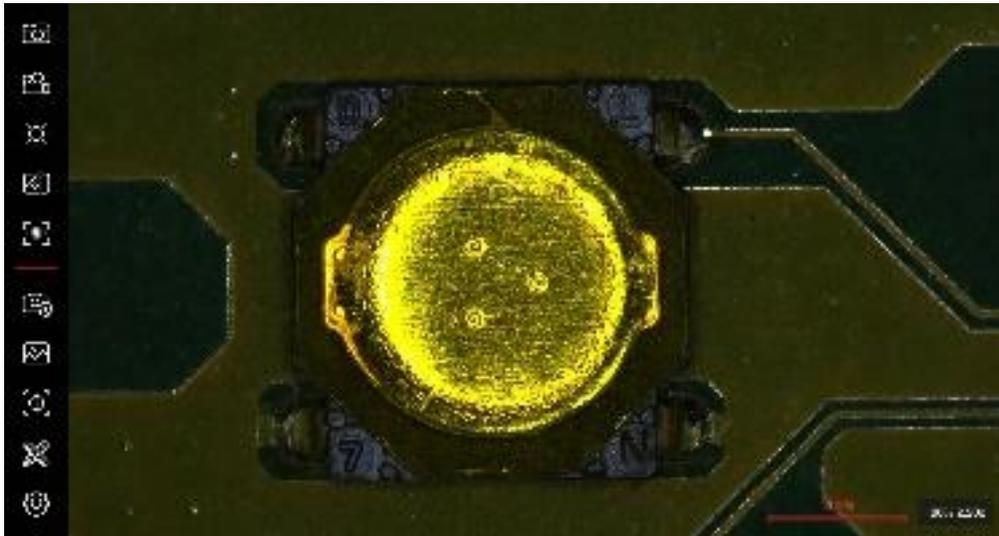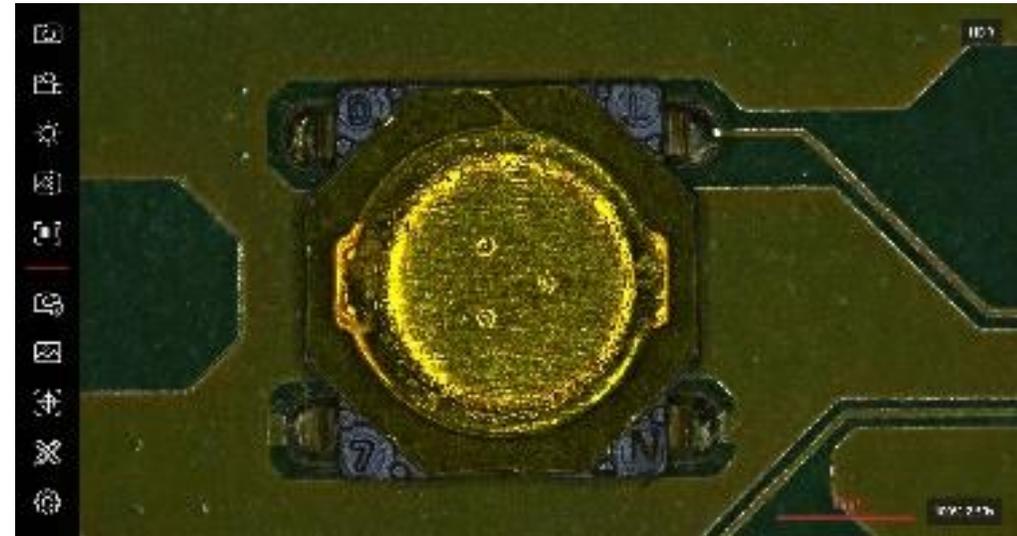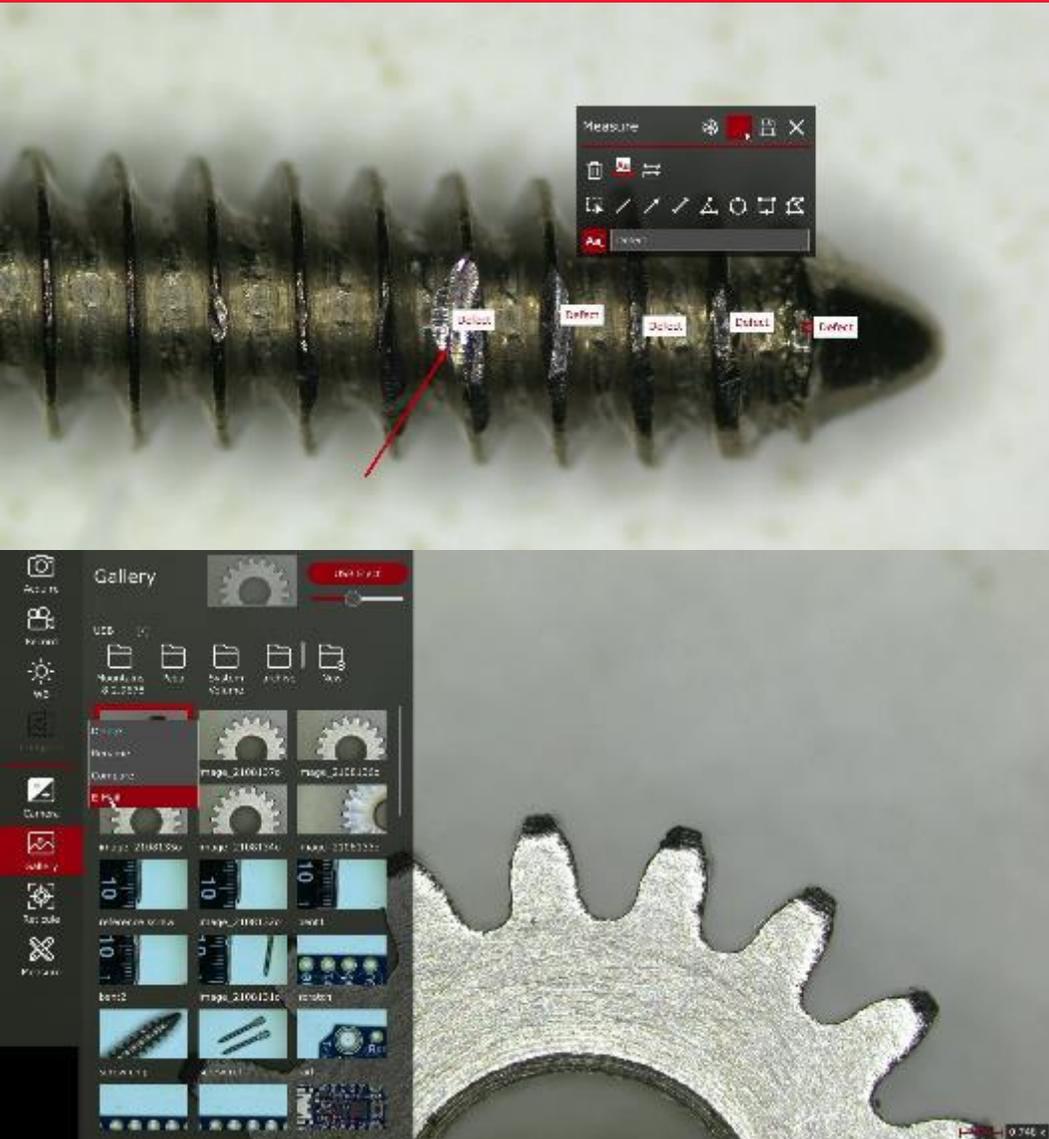


Image of an electronic component without HDR

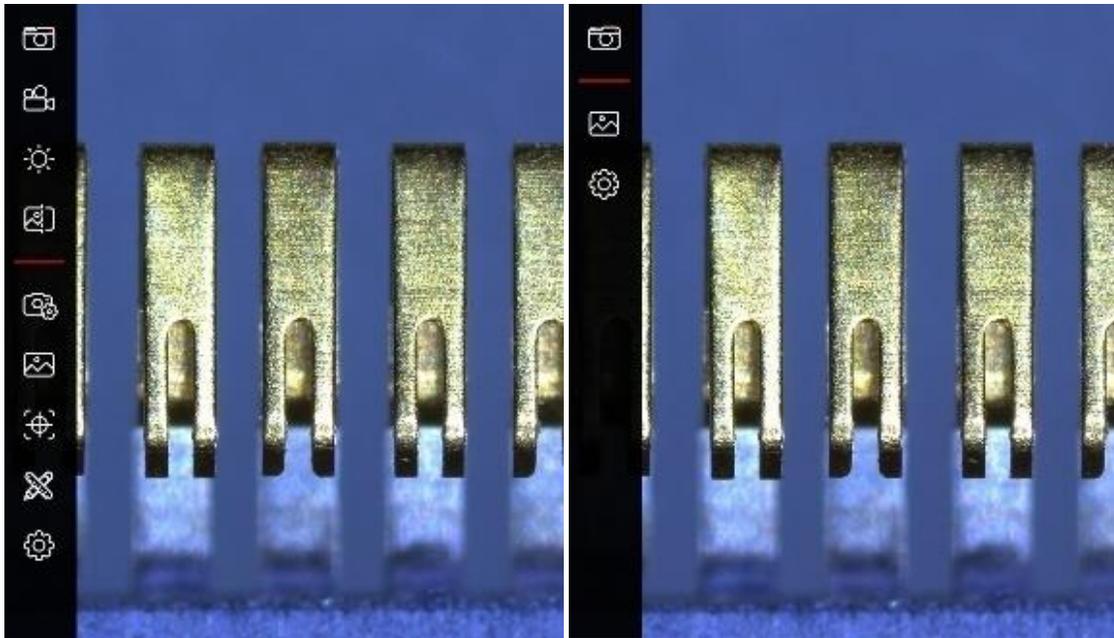Image of an electronic component with HDR

**Enhance communication for fast decisions**

- Annotate your images and use consecutive numbering to highlight sample characteristics.

- Automatically save images on your network for fast storage.

- Easily share results and documentation via email.

- Keep data on a local network for secure sharing and instant accessibility.

Everyone in your team can intuitively use the Enersight software platform to acquire inspection images, reducing training and supervision time.

**Just use it - designed for everyone**

Save time and effort - users of any skill level can intuitively use Enersight with minimal training.

**Simplified use with an adaptable user interface**

*   Hide unnecessary functions
*   Make the user interface as lean as desired

**Customizable for each user group**

*   Set user access for specific functions

Left: Full user interface / Right: Customized user interface

**Consistent operation that saves you time**



- Perform inspection tasks in a consistent way, independent of the Leica product and operation device, i.e., monitor, mobile device, or computer.

- With a common user interface across operation modes, the need for training and supervision can be reduced.
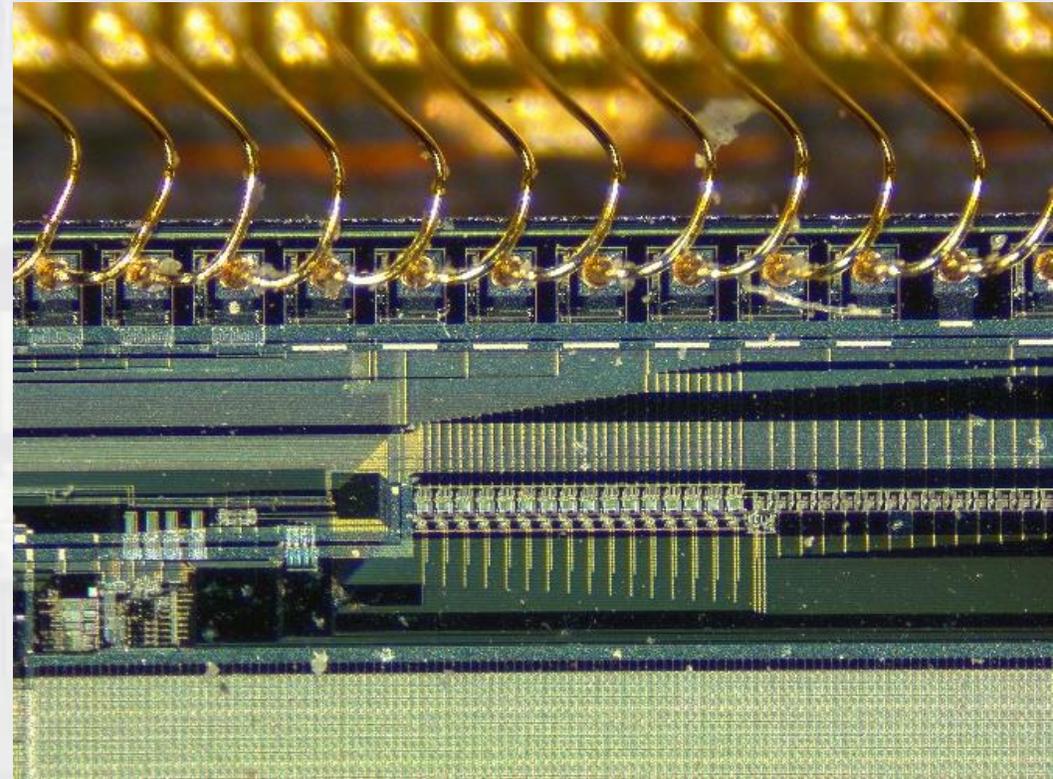
## Produce images like a pro

### Get crisp images with less manual effort

- Spend less time manually adjusting white balance and exposure time settings.
- Get balanced high-contrast images with integrated assistant functionalities.
- Obtain images fast and easy thanks to automatic camera setting adjustments.

### Get help with image optimization

- Use on-screen information to check for maximum level of focus.
- Find the right illumination settings using the histogram.

**Emspira 3 digital microscopes:**
- Comprehensive visual inspection including comparison and measurement, as well as documentation sharing directly via a network.
- Live images displayed directly on a monitor.

**Ivesta 3 Greenough stereo microscopes:**
- Designed to optimize inspection and rework.
- For tasks requiring a 3D view of the sample, user get an optimal 3D perception thanks to FusionOptics.
- Convenient to handle samples due to the large working distance.

Ivesta 3 (when no camera for documentation is needed
Ivesta 3 (with integrated camera)
Ivesta 3 (C-mount)

**M series routine stereo microscopes (M50, M60, and M80):**

- Provide various measurement capabilities when used with the Enersight software platform.
- Can be customized with a large range of ergonomic accessories and multiple types of illumination.

**DM2700 M compound microscope:**

- For investigation of the internal structure of a material
- Optimal solution for different kinds of routine materials analysis tasks.

**Flexacam c5 and i5 microscope cameras:**

- Reveal sample insights with sharp images showing fine details and precise colors.

- Work in a flexible way according to your requirements.

- Make team decisions more easily.

- Consistent user interface provided by the Enersight software platform.

- Operation is independent of the mode, i.e., computer, monitor, or mobile device.



M60 stereo microscope with Flexacam c5 camera



M50 stereo microscope with Flexacam i5 camera

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# Thank You!

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