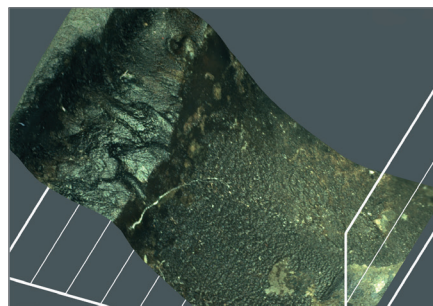


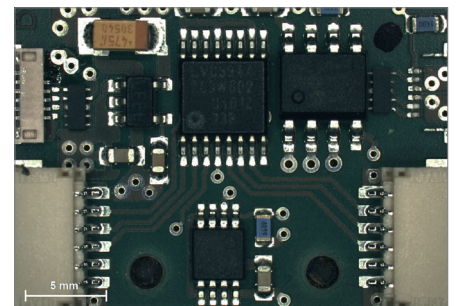


## ZEISS Smartzoom 5

### Sampling Made Simple: Your Automated Digital Microscope



*Exhaust residues on outlet valve, segmented ring light illumination, extended depth of field (EDF)  
Objective: 1.6x, magnification: 45x*



*PCB, full ringlight illumination  
Objective: 0.5x, magnification: 12.5x*

#### Smart Design

Smartzoom 5 incorporates highly intelligent quality assurance and quality control analysis (QA/QC) technologies as standard features:

- The optical engine combines three-functions – zoom, over-view camera, and coaxial illumination – in a single component.
- Smartzoom 5 indicates the status of all major components and corrects automatically for component variations.
- Ready for plug-and-play installation – with motorized, automated and factory-calibrated components to save even more time.
- Lightweight, portable system that's easy to assemble and set up – no expert microscopy knowledge or tools required

#### Smart Workflow

Smartzoom 5 integrates QA/QC graphic user interface combined with gesture control to support a seamless macro-to-detail workflow, allowing easy navigation at all times:

- Macro recording and learning mode enhances the workflow for repeat sample analyses of the same type in a step-by-step manner.
- Image presets and enhancement help you get the best image possible.
- Image algorithms enable automatic measurements.
- Intuitive and easy to use - inexperienced users will still produce excellent results.

#### Smart Output

Smartzoom 5 is the essence of reliability, delivering fast, reproducible QA/QC measurements for routine as well as failure analyses tasks:

- Guided workflow in combination with calibrated components supports user independent measurement results.
- Fitted with several fully automatic functions designed to enable fast, highly reliable analyses while enhancing overall productivity - know the quality of what you are producing at all times.
- Simply annotate your images and export reports to word templates.





# ZEISS Smartzoom 5

## Sampling Made Simple: Your Automated Digital Microscope



### Objectives:

#### PlanApo D 5x/0.3 FWD 30 mm

Telecentric, suitable for coaxial reflected light and ring light

#### PlanApo D 1.6x/0.1 FWD 36 mm

Telecentric, suitable for coaxial reflected light and ring light

#### PlanApo D 0.5/0.03 FWD 79 mm

Suitable for ring light

### Additional Features:

- Cables are minimized and housed inside the system to eliminate clutter.
- Easy system assembly in less than one minute
- Comes with safety feature for sample and user protection
- Optional transport case available

### Tailored to Your Applications

Automotive Industry	The switchable ring light lets you view pits and bumps in the best possible way. Use HDR to compensate for contrast differences and intensity variations.
Electronics Industry	The overview camera and relative coordinate system places your analysis in the overall context of the sample. EDF brings significant height differences into focus.
Metal Industry	An extensive set of 2D measuring tools give you the ideal means for analyzing parts. Teachable jobs enable repetitive analyses.
Medical Device Industry	Measure device parts in 3D - with true-to-life reconstruction

### Technical Data

Microscope	Motorized, consisting of: Stand, Optical Engine, Stage
Objectives	Connected to the optical unit via a bayonet mount. They contain switchable ring light and storage module in which the exact magnification is saved.
Illumination	Ring light (integrated in the objectives) Coaxial reflected light (integrated in optical engine)
Cameras	Overview camera (integrated in optical engine) Microscope camera (integrated in optical engine)
Computer System	All-in-One PC, Smartzoom 5 software, Controller, Optional Tablet PC
Maximum Resolution	~ 1 µm
Maximum Magnification	1,011x (with respect to a 17.5" display diagonal and an aspect ratio of 4:3)
FWD at Maximum Magnification	30 mm
FOV at Minimum Magnification	40 mm