

NanoFocus introduces Laboratory System  $\mu$ surf basic

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## Fast 3D Microscopy for industrial Research

***The metrology equipment manufacturer NanoFocus AG, located in Oberhausen, Germany, extends its product portfolio by the  $\mu$ surf basic 3D microscope for industrial laboratories. Easy sample positioning, fast 3D data acquisition, and automated documentation of measurement results are characterizing the new development. The  $\mu$ surf basic was introduced at the international trade fair for quality assurance, Control 2010, where it was received with great interest by the expert audience.***

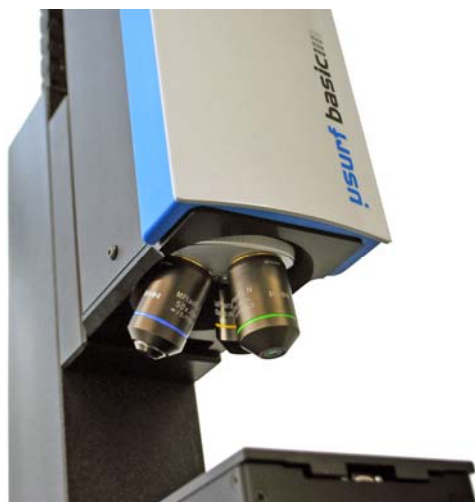
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$\mu$ surf basic is a flexible confocal 3D microscope, optimized to measure samples with different requirements easily and quickly. Polymers, ceramics, metals or composite materials – almost all surfaces can be transferred into precise measurement data. Even transparent or highly reflective surfaces can be inspected with the  $\mu$ surf basic. That's why the system is ideal for users with a wide range of different measurement tasks, such as universities and other industry-oriented research facilities, as well as quality assurance or research and

development laboratories in industry.

The  $\mu$ surf basic does not only provide a microscopy image of the surface. The system offers various additional functions for documentation, of surface defects for example, as well as the exposure of the surface structure as a 3D real color image. Roughness measurements conform to DIN EN ISO standards, analyses of 3D structures, layer thickness and geometry measurements are feasible beyond the sub-micrometer level.

The concept is based on an easy and intuitive usage of hardware and software. The integrated turreted optics allows a fast localization of the areas of interest on a sample and, if required, a quick change to a different magnification to view the same spot at higher resolutions. Depending on the magnification, the objectives offer measurement fields between  $1.6 \times 1.6 \text{ mm}^2$  and  $320 \times 320 \text{ }\mu\text{m}^2$ .

" $\mu$ surf basic is the logical evolution of the  $\mu$ surf product line", explains Jürgen Valentin, CTO of NanoFocus AG. "Now we can cover the whole manufacturing process with this technology – beginning with the first development steps in laboratory over quality assurance to production control."

## **About NanoFocus AG**

NanoFocus AG is a pioneer and technology leader of a new generation of high-precision optical 3D surface analysis tools for laboratory and production use. With its user-friendly, robust and economical instruments, the company revolutionises the surface analysis market and enables users in the scientific and industrial sectors to achieve three-dimensional imaging and inspection of surfaces with structures in the micrometre and nanometre ranges.

<http://www.nanofocus.de>