nanofocus®
see more

µsoft automation

▶ **Time-efficient working with series measurements**

▶ **User/operator level with password protection**

▶ **Measurement recipes for measurement and evaluation**

▶ **Various sensor settings and evaluations in a single measurement recipe**

▶ **SQL database**

▶ **Template creation with joystick support or ASCII/CSV import**

µsoft automation transforms your NanoFocus µsurf and µscan system into a fully automated measuring and analysis system.

Automated measurement

µsoft automation recipe defines points on a sample that can be measured automatically and the measurement parameters can be preconfigured. Thanks to the individual configuration of the measurement parameters per measurement point, the system captures various sample properties without the need for manual corrections. Per measurement operation, an arbitrary number of individual measurements can be stored. To ensure the exact positioning of the sample, µsoft automation rules out displacements by means of reference points.

Results in seconds

The measurement data can be analyzed using external analysis software, such as µsoft analysis or optionally available evaluation modules for µsoft automation. The
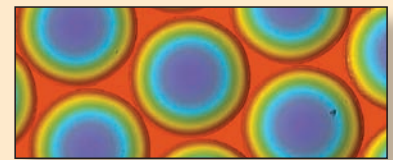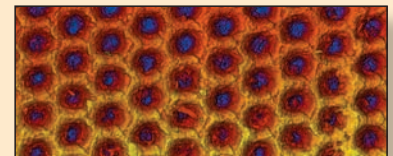
NanoFocus evaluation modules permanently store the measurement data in a database and thus make sure it is kept available for years. Moreover, the modules allow the display of the results in a sample-specific measurement protocol.

Creating templates

The password protection in the main program ensures that measurement processes can only be created or changed by authorized persons. New measurement templates can be created both quickly and easily by using the joystick. Measurement coordinates and parameters can be accepted in a template at the push of a button. Warning and intervention thresholds are considered in the analysis. Values exceeding the thresholds are marked in the protocol. This makes it easy to detect errors.
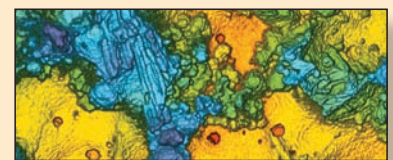
MEMS/MOEMS

Electronics

Print/paper

Medical device

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Specifications

General

Compatibility	Suitable for the measuring instruments µsurf/µscan custom, µsurf/µscan business solution, µsurf mobil
Versions	Basic: automated measurement, professional: automated measurement and analysis with customized modules
Languages	English, German, other languages on request
Operation	Program supports the separation of measurement and evaluation unit, program is network capable
User levels	Several security levels with various authorization grades: administrator, process level, operator
Creating a measurement recipe	Intuitive input mask for measurement position (joystick supported) and sensor settings
Data storage	Storage of the measurement data/analysis results in an SQL database

Measurement

Measurement settings	Variable sensor settings within one measurement cycle
Measurement recipe	Automated moving and measurement and measuring of arbitrary positions
Series measurement	Alignment with synchrinization of reference points
Exporting the results	ASCII export for the connection to the QA database, forwarding to µsurf analysis software, excel (csv)
Number of measurements per job	Unlimited

Analyzing*

Display of the results	Individually designed analysis protocol, SPC diagram
Analysis recipe	Specific measurement parameters can be assigned to each measurement point
SPC	Entry of warning and intervention thresholds for measurement data analysis

*applies to professional version

Analysis examples

Traces	Width, distance, height
Laser vias	Upper/lower diameter, depth, roundness, angle
Filles vias	Dimple
Solder resist	Depth, upper/lower diameter
Roughness	Ra, Rz, Rt, Rq: on diverse materials, on traces, laser vias, bumps
Solder Bump	Height, diameter, coplanarity, pitch, position (x,y)

Are you interested in other NanoFocus-Technology?
Please call +49 208 62 000-0 or write an email to sales@nanofocus.de.

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