

Which quality features can QUALILEO check?

- Surface defects, such as scratches, dents, chipping, paint defects, blisters, streaks
 - Cleanliness inspections
 - Detection of defects/deviations up to 0.1 mm² in a field of view of 400 x 300 mm² and 0.01 mm² in a field of view of 140 x 105 mm²
 - Connector pin assignments, cable colours on connectors, missing/non-existent quality features
 - Burrs on plastic and metal parts
 - Deviations from the macrostructure

 - Presence or absence of features and object characteristics
 - Inspection of printed circuit boards, wrongly soldered components, missing components
 - Labelling of components
 - Reading of data codes
 - Counting of multiple objects in the image
 - Completeness checks in packaging
 - Differentiation of colours

 - Sink marks on plastic parts
 - Detection of residual stress on transparent parts
 - Testing of assembly conditions
 - Comparison of test parts with i.O. Test standards
 - Suitable for small and medium series with a constantly changing assortment of parts
 - Documentation of test results for quality management with defect and error reports and statistical evaluations
-
- ### Options
- Adaptation of the software to special inspection tasks- customised inspection programmes
 - Customer-specific adaptation of the object images



Steinbeis
Qualitätssicherung und
Bildverarbeitung GmbH

Steinbeis Qualitätssicherung und Bildverarbeitung GmbH

Werner-von-Siemens-Straße 9
D-98693 Ilmenau
Germany



www.quick-image.de

We have many years of experience in research and development in industrial image processing, software development, measurement technology, quality assurance and quality management

M. Sc. Norbert Jahn

Phone: +49(0)3677 – 46 90 59 15
E-Mail: norbert.jahn@quick-image.de

Dr.-Ing. Konstantin Trambitckii

Phone: +49(0)3677 – 46 90 59 16
E-Mail: konstantin.trambitckii@quick-image.de

Dipl.-Ing. Steffen Lübbecke

Phone: + 49(0)3677 – 46 90 59 10
E-Mail: steffen.luebbecke@quick-image.de



Steinbeis
Qualitätssicherung und
Bildverarbeitung GmbH

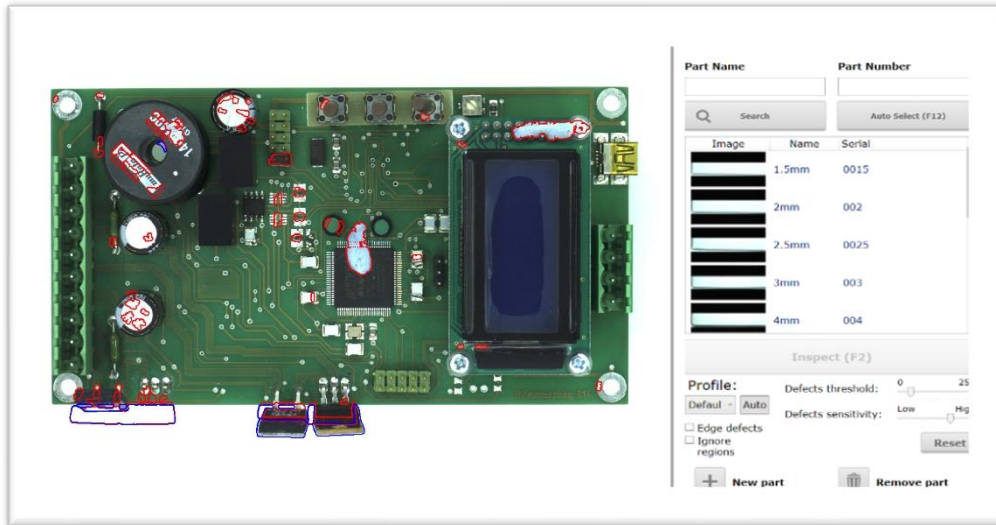


QUALILEO -

A INSPECTION SYSTEM,

THAT SEES AND LEARNS

QUALILEO LEARNS SAMPLE OBJECTS IN A FLASH AND COMPARES THEM WITH THE TEST OBJECT



AUTOMATED VISUAL INSPECTION

QUALILEO is an intelligent defect detection system for automated industrial quality assurance in manufacturing and production processes as well as for final inspection with modern design, live image with highest resolution and zoom function.

MODULAR IMAGE PROCESSING AND ILLUMINATION SYSTEM

The QUALILEO inspection system has a modular design and can be used for the automation and documentation of visual inspection tasks, including automatic inspection decision.

RECOGNITION OF STORED TEST OBJECTS

QUALILEO automatically recognises the part to be inspected (digital twin) if it has already been stored as a sample and detects defects/deviations of up to 0.1 mm² in a field of view of 400x300 mm² and 0.01 mm² in a field of view of 140x105 mm².

DEFECT DETECTION AND CLASSIFICATION

QUALILEO objectifies defect detection and defect classification during visual inspections.

EASY TEST PLANNING AND TEST PLAN MANAGEMENT

The QUALILEO inspection system automates the teach-in process of a test sample (OK part) at the push of a button and is therefore particularly suitable for use in small and medium batch production with a strongly changing assortment of parts. This allows you to automatically inspect and zoom either the entire test object or several functionally relevant inspection characteristics/inspection regions.

USE OF TAUGHT-IN TEST SAMPLES

QUALILEO can automatically select taught-in test samples (OK parts) for comparison on the basis of the test object, load the corresponding test plan and thus enable very fast testing up to batch size N=1.

EXTREMELY SIMPLE VISUAL INSPECTION

QUALILEO simplifies visual inspections, enables objective inspection decisions, avoids fatigue-induced slippage of defective parts and significantly reduces the psychonervous strain on inspection personnel.

INCREASING QUALITY THROUGH ZERO-DEFECT PRODUCTION

The QUALILEO inspection system realises demands for zero-defect quality from your customers and is suitable for use in production lines, testing laboratories and for intermediate and final inspection.

COST SAVINGS

The QUALILEO inspection system significantly reduces inspection and follow-up costs due to non-detected defective parts and inspection planning/schedule management costs.

MULTILINGUAL USER INTERFACE

The intuitive user software of the QUALILEO test system can be switched to different languages.

SOFTWARE UPDATES

Our customers are kept fully informed about continuous improvements to the testing software and can update it via remote maintenance.

SERVICE AND MAINTENANCE

Service and maintenance are also largely carried out with remote maintenance technologies (remote).

→ DESCRIBE YOUR TESTING TASK TO US! WE CAN DEMONSTRATE QUALILEO ONLINE OR COME TO YOU!