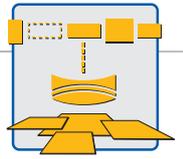
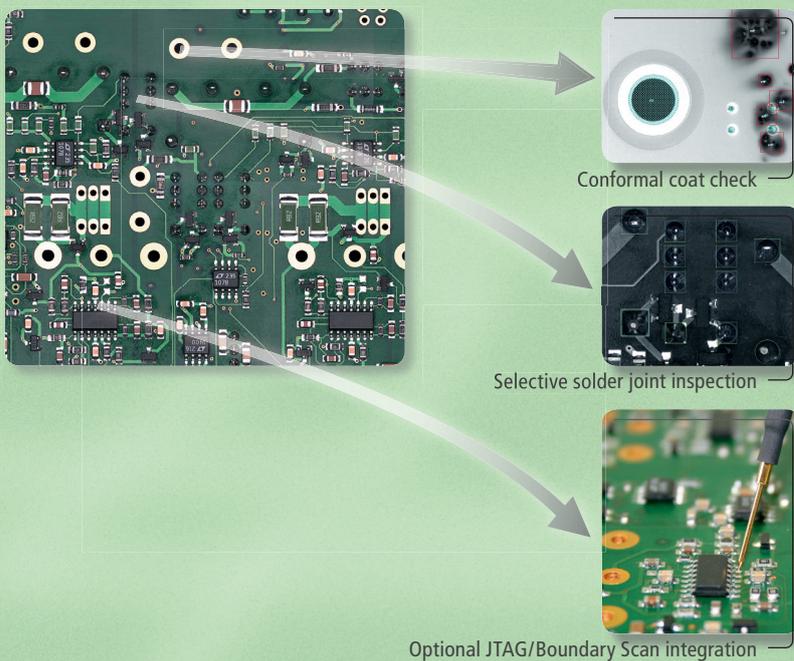


TOM In-Line

Cost-efficient
in-line vision system



Boundary
Scan
ready ✓



System Concept

The TOM In-Line systems were developed for selected automated visual inspection tasks for electronic assemblies. The range of executable visual tests includes component presence and polarity, selective solder joints, displays and LEDs as well as fluorescent conformal coat. The system can additionally be combined with the JTAG/Boundary Scan test technology.

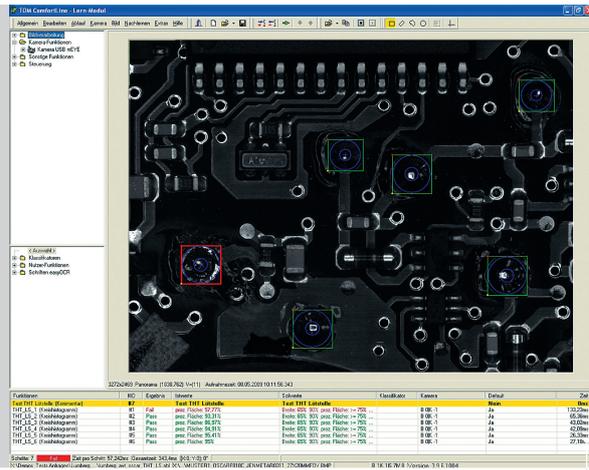
System Variants

The modular device concept allows the flexible implementation of specific test demands; therefore the camera concept plays a critical role. Possible standard camera configurations range from the utilisation of one to multiple cameras (1 Megapixel to 5 Megapixel) in colour or black-white variants. The system is available with various illumination concepts in the visible and UV light area (conformal coat). For selective solder joint inspection TOM In-Line can be upgraded with the high performance camera and illumination modules of the OptiCon AOI systems from GOEPEL electronic.

If users want to add a functional test based on the JTAG/Boundary Scan technology the integration of a Boundary Scan controller from GOEPEL electronic and respective bed-of-nail adapter is possible. Giving an even higher test coverage by a "one-stop" test system.

System Software

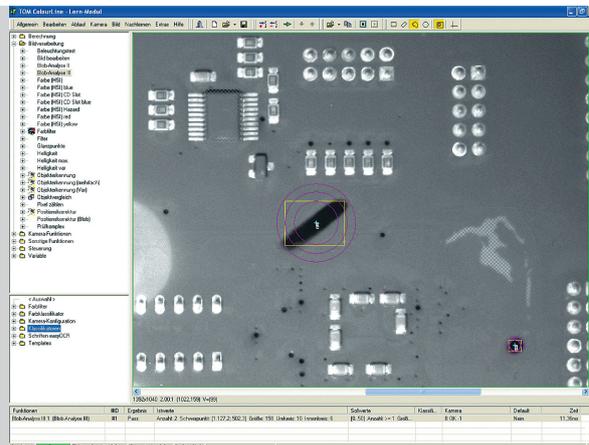
The TOM Line system software enables an efficient and intuitive test program generation. The range of optical test functions includes algorithms for shorts inspection, colour recognition, OCR as well as conformal coat inspection. The required user interface for the combined optical and electronic test (JTAG/Boundary Scan) is provided.



Solder joint inspection



Display check



Conformal coat inspection

Camera technology	1 - 4 colour or black-white cameras with 1 - 5 Megapixel; additional configurations on request
Illumination	LED: white, RGB, UV
Assembly handling	Max. PCB size: 460 mm x 400 mm Max. PCB weight: 5 kg
Miscellaneous	In-line interface: SMEMA, Siemens Device ports: 240 V / 0,5 kVA Compressed air: 6 bar < 20 l/h Dimensions: 1.000 mm (w) x 1.150 mm (d) x 1.800 mm (h)



ISO 9001 certified

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