Technical Data

LVCompact Light

System versions

Standalone-System, LVC3 Light
equipped with color sensor module with GigE Vision technology,
automatic drawer with adapter for PCBs as well as a lighting unit consisting of 5 independently programmable modules (Top + 4 sides) on the top and bottom side

System Components, Hardware

Image processing computer in the system
| SIMATIC Box PC with Microsoft Windows operating system
| LCD-Monitor

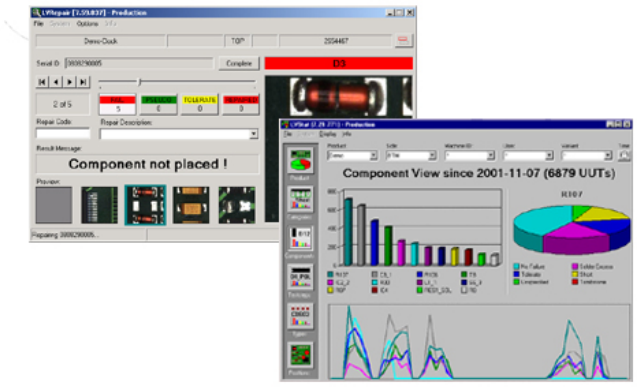
XY-positioning unit
| Working area 450 x 350 mm

PCB height
| Top: max. 45 mm
| Bottom: max. 45 mm

Orthogonal sensor module with megapixel technology

Resolution	Sensor/pixel	Fieldof vision/mm	Component size	
18,7µm	1034x779	19,3 x 14,6	pitch 0.4	0402

Inspection speed:
| Depending on board design and configuration: Typical 30.000 components/h



General data

Power supply	230 V/3A
Certificat	CE (EU-standarts, machine-directives incl. EMC etc.)
Dimensions in mm	850 x 920 x 440 (W x D x H)
Weight	Approx. 60kg
Operating temperature	10°C to 35°C
Operating humidity	<80%, none-condensing

Software

Standard routines for image processing
| Component angel 0-360° supported
| Presence and polarity verification on all THT and SMD components
| Measurement of component position (offset, angle)
| Solder joint inspection on SMD and THT components
| Solder joint inspection on ICs, including THT
| Short-circuit tests (solder bridges)
| Solder paste inspection (2-D)
| Initial sample test

Production tools, documentation
| Automatic storage of test results
| CAD data conversion tool, license for LVCAD
| User definable result messages
| Data logging of test results, flexible output (ASCII) format, transfer to an external QMS
| Graphical repair station (LVRepair)
| Graphical board view (LVBoard)
| Offline serial debugging
| Remote service / debugging via modem / ISDN
| Communication with production line over various interfaces
| Barcodes readable with camera
| Optical character verification (OCV) on components

Options
| Offline programming, remote station, telecentric lense high resolution camera, license for fault statistic tool LVStat

Program generation
| Automatic program generation from CAD data
| CAD-Overlay, automatic changemanagement of board revisions
| Automatic camera and test route optimisation
| Automatic generation of multi panel board inspection
| Array test for easy reproduction of similar individual routines
| Automatic generation of programs for first off (comparison with golden board)
| Inspection alternatives for component versions
| Support of insertion variants (up to 255)
| Inverting of test results of not assembled components
| Output of user-definable Pass/FAIL messages

PRÜFTECHNIK Schneider & Koch Ingenieurgesellschaft mbH · Fahrenheitstraße 10 · 28359 Bremen
Phone +49 (0)421 2 23 00 30 · Fax +49 (0)421 21 54 55 · info@prueftechnik-sk.de · www.prueftechnik-sk.de