LaserVision Compact Light

System Versions

LaserVision Compact 3 Light
Tabletop-System, equipped with color sensor module with GigE Vision technology, telecentric lense, drawer with adapter for PCBs as well as a lighting unit consisting of independently programmable modules

System Components, Hardware

Image processing computer
- 19" Rack 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

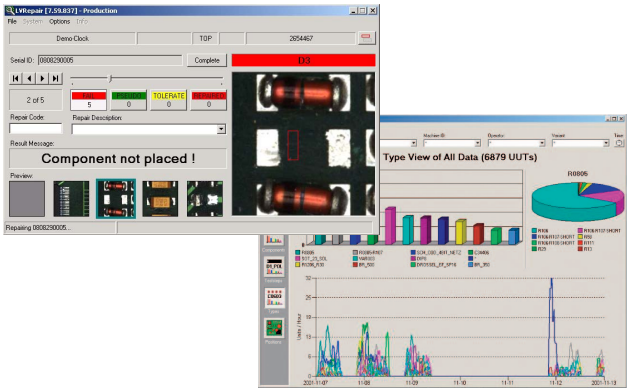
Orthogonal sensor module with megapixel technology

Resolution	Sensor/pixel	Field of vision/mm	Component size
18,7 µm	1032 x 778	19,2 x 14,5	pitch 0.4 0402

Inspection speed
- Depending on board design and configuration: Typ. 30.000 components/h

General data

Power supply	230 V/3A
Certificat	CE (EU-standarts, Machinery directive 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 internet
- 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
- Wizzard (guided program generation)
- 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

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