LaserVision THT

System Versions

LaserVision THT
Standalone or Inline System, for testing both sides of double-sided PCBs at the same time, equipped with 1 color sensor module on each side in GigE Vision technology, lighting unit consisting of 5 independently programmable modules (top + 4 sides) on the top and bottom side, transport system, indicator lights and SMEMA interface

System Components, Hardware

Image Processing Computer
| 2 x 19" Rack PC with Microsoft Windows OS
| LCD monitor

XY-Positioning Unit
| Working area
Standard configuration inline (over 2 stop positions): 650 x 450 mm
Standard configuration standalone: 500 x 450 mm

Orthogonal Sensor Modul with Mega Pixel Technology

Resolution	Sensor/Pixel	Field of view/mm	Component size
Top: 33 µm (THT)	2048 x 2048	67,58 x 67,58	THT ‹ 65 mm hight
Bottom: 15,7 µm (SMD)	2048 x 2048	32,15 x 32,15	pitch 0.4 0402

Option Schrägblick-Modul
Zusätzlich zur Hauptkamera vier seitliche Kameras in die seitliche Beleuchtung unten integrierbar

Vertical Clearance
| Top: 80 mm
| Bottom: 40 mm

Test Speed
| Depending on board design and configuration:
Typ. 100.000 components/h

General Data

Power supply	230V / 3A o. 110V / 6A
Certificat	CE (EU-standarts, Machine directive incl. EMC etc.)
Dimensions in mm	1550 x 1000 x 1140 (H xW x D)
Weight (Stand-alone/Inline)	ca. 570 kg
Operating temperature	10°C to 35°C
Operating humidity	‹ 80 %, non-condensing

| Inline-System
| Compressed air 4 bar
| Assembly line height 840 mm +/- 25 mm
890 mm +/- 25 mm
940 mm +/- 25 mm
(other heights possible)
| Communication with assembly line via SMEMA interface

Software

Standard Routines for Image Processing
| Component angel 0 — 360° supported
| Presence and polarity verification
| Measurement of component position (offset, angle)
| Solder joint inspection
| Short-circuit tests (solder bridges)
| Initial sample test

Options
| Offline programming, remote station
| Recirculation of PCBs
| Further licenses for LVRepair, LVBoard, LVStat
| Monitor arm
| Keyboard for repair station aid

Production Tools, Documentation
| Automatic storage of test results
| Barcodes readable with camera
| User definable result messages
| CAD data conversion tool, license for LVCad
| Fault statistic, yield-meter, SPC (LVStat)
| Graphical repair station (LVRepair)
| Graphical board view (LVBoard)
| OCV-Software-Modul (optical character verification) - (also for laser engraved components)

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