

## 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 high
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: 55 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 x W 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 angle 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)

