OPTICAL AND IMAGING SYSTEM

XGA 3CCD camera (1024 x 768) 1 Top view camera

Lighting Multi-segment, Multi-angle LED, White+RGB

Optical resolution 10,15,20um

Imaging method High Speed Dynamic Imaging

IMAGING / INSPECTION SPEED

20um 72cm²/sec 15um 40cm²/sec 10um 18cm²/sec

PRE-/POST-REFLOW INSPECTION FUNCTIONS

Component Missing, Shift, Skew, Tombstone, Billboard, Polarity, Marking

Solder joint Insufficient/Excess solder, Bridge

X-Y TABLE AND CONTROL

High precision ball screw/Servo motor with DSP based motion controller

X, Y axis resolution

BOARD AND SYSTEM

Max. PCB size

TR7500DT 330 x 250mm TR7500DTL 510 x 460mm Max. PCB thickness

Max. PCB Weight

TR7500DT 1kg TR7500DTL 3kg

PCB carrier/Fixing

TR7500DT/DTL Manual handling, motor-driven auto-clamping

Clearance (TR7500DT/DTL)

Top 35mm Bottom 40mm Edge 3mm

Weight

TR7500DT 230kg TR7500DTL 350kg

Dimension

TR7500DT (W) 760mm x (D) 908mm x (H) 1341mm* TR7500DTL (W) 1028mm x (D) 1270mm x (H) 1585mm

Power supply 220V AC/10A, Single phase

OCR, Barcode System, Off Line Editor, Repair Station, Options

SPC System, YMS System, PC Table

*Width excluding monitor arm.

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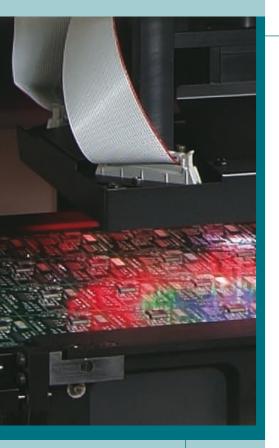
- HIGH RESOLUTION 3CCD CAMERA
- RGB+W MULTI-ANGLE LIGHTING CONTROL, COAXIAL LIGHTING
- ULTRA-HIGH-SPEED INSPECTION
- AUTO CLAMPING CONVEYOR SYSTEM
- 01005 COMPONENT/12 MIL FINE-PITCH READY
- DESIGNED FOR LEAD-FREE PCB ASSEMBLY
- ENHANCED DEFECT COVERAGE
- FAST, EASY PROGRAMMING







HIGH SPEED DESKTOP COLOR AOI OPTIMUM SOLUTION



BEST THROUGHPUT

Dynamic imaging technology provides vibration-free imaging of PCBs with high throughput. The inspection speed is less than 21 seconds for a M-size PCB (@20um, excluding fiducial mark finding and loading time). The TR7500DT is ideal for for pre- or post-reflow inspection.

HIGH-RESOLUTION IMAGING SYSTEM

The new 3CCD XGA multiple color camera system and the high optical resolutions (10, 15, 20um) enable TR7500DT to capture up to 50 frames/sec of standard XGA format images (1024 x 768 pixel). With the high resolution of 10um, small components such as 01005 chips can be easily checked.

MODULARIZED CONTROL SYSTEM

The precision X-Y table, conveyor system, image acquisition, lighting system, and host PC are independent modules which allow easy diagnostics and maintenance of the system.

ADVANCED COLOR LIGHTING

The new RGB lighting control and the color imaging system instantly provide operators with easier visual verification on real images. The advanced color lighting system significantly provides accurate and better inspection results for solder fillet on small components such as 01005 and fine pitch leads.

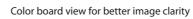


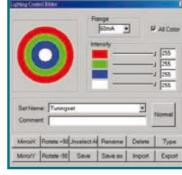
Skew Billboard Missing IC Lead Defective Reverse Bridge Insufficient Solder Lifted Lead IC Skew Tombstone

EASY PROGRAMMING ENVIRONMENT

- Programming is easily done by using the data from a CAD file directly.
 The only mandatory data fields are component name, package type, X-position, Y-position, and rotation angle
- PCBs with special layouts also can be edited easily
- TRI provides a standard Model Library for most of the main component types and they are presented graphically for ease of use. This can greatly reduce the time of inspection box creation and parameter setting
- Accurate warp compensation and the multi-fiducial finding algorithm ensure the correct positioning of the inspection windows, which leads to accurate, repeatable defect detection



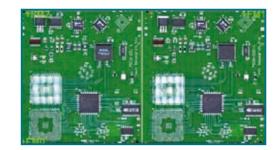




Graphical lighting control editor



Built-in Model Library Function



Multi-Fiducial Function



Special Multi-board layout

YIELD MANAGEMENT SYSTEM*

- · Testers enable process capability control
- Real time defect information integration and analysis
- Defect knowledge management

* Optional

