

# T8T DTRS

## The Highest Throughput AOI system on the market



Mania continues to push the envelope in the realm of optical inspection. This high production HDI inspection system combines the unmatched efficiency and throughput with the highest inspection integrity and places **T8T** at the forefront of optical inspection solutions available today.

### Inspection

**T8T** has a completely re-engineered inspection engine and uses the latest technology in high speed CCD cameras producing greater defect detection and a 2x improvement in throughput. **T8T** still uses our core competence of pixel-to-pixel CAD reference comparison, providing the absolute inspection technique with limitless capabilities regardless of board design and image complexity. New and improved post inspection intelligence, or **EMV™** calculates the validity of every pixel discrepancy. Then, and only then does it report defects according to customer-defined quality control rules.

### Intelligence

**T8T** uses our proven high powered opto-mechanical zoom lenses giving the best resolution flexibility in a dust and maintenance free package. The new **T8T** high speed CCD cameras with double the performance and increased sensitivity places the **T8T** at the pinnacle of AOI. **T8T** maintains a unique ability to have inspection flexibility across a broad spectrum of applications proving **T8T** to be an essential asset in high-production inner/outer-layer as well as its use as a quality control product for photo-resist and photo-tool applications.

**SVI™** Technology provides multiple verification possibilities including simultaneous verification and inspection with real-time live video and digital error data overlay, and fully automated ink marking for offline verification and repair.

**VRAC™** "Video to Raster Converter" generates a geometrically corrected image allowing pinless registration and increased accuracy in fine line inspection.

### Ergonomic Operation

**T8T** uses a Windows XP Graphical User Interface (GUI) providing the operator with a familiar local language environment. System control through the "hotkey" pad and wide-screen monitor promotes a common sense approach to improved inspection performance, while maintaining operator alertness and ultimately improving yields.

- **The Fastest - New High Performance inspection technology delivers 180sph with 50μ features.**
- **The Most Accurate. - New Optical Design for the ultimate in defect detection with inspection capabilities down to 35μ.**
- **The Most Efficient. - SVI™ Technology increases production efficiency.**
- **Without Limitations. - Pixel-to-Pixel, the only Absolute Inspection.**
- **The Most Intelligent. - EMV™ Report only what you want.**
- **The Most Secure. - New DHD™ Hole displacement measurement.**



## T8T DTRS

## Technical Data

System Model	DT	DTR	DTRS	DTRSX
Dual Table	•	•	•	•
High Performance Inspection Technology			•	•
Extended Format				•
Media Sizes				
Standard Table Size	21" x 30"		533 x 762 mm	
Extended Format Table Size	24" x 30"		610 x 762 mm	
Max. Panel Thickness	0.0" ... 0.300"		0.0 ... 7.0 mm	
Inspection media				
Standard	Conventional bare copper incl: Shiny, matt, oxide coated, reverse-treat, double-treat, gold plated features; silver halide film			
	All Base materials including FR4, Teflon, Rogers			
Inspection Principles				
Inspection Methodology	<ul style="list-style-type: none"><li>• Pixel-to-Pixel Absolute inspection.</li><li>• EMV™ Post Inspection Intelligence.</li><li>• DHD™ Drill Hole Displacement Measurement.</li></ul>			
Verification.	<ul style="list-style-type: none"><li>• SVI™ Simultaneous Verify and Inspect.</li><li>• SVI™ with Automated Ink Stamp.</li><li>• DV8 or Athena Offline Verification.</li></ul>			
Registration.	<ul style="list-style-type: none"><li>• Three Point Pinless registration - Vacuum Table</li><li>• Auto Registration – Vacuum table</li><li>• Pinned Panel – Vacuum table</li></ul>			
Data Requirements.	UCAM SmartAOI Supplied Standard: <ul style="list-style-type: none"><li>• Automated CAM Preparation.</li><li>• All Common input formats. Inc ODB++</li><li>• Golden-Board with On-line Image Edit.</li></ul>			
Operator Interface (GUI).	Windows XP – Local languages			
Utilities				
Dimensions (W x H x D).	62" x 66" x 72"		1,575mm x 1,676mm x 1829mm	
Power Requirements	220VAC 20Amps			
Weight.	5,000 lbs		2,272 kg (incl. crate)	
Air.	90 PSI @ 1 CFM			
Options				
Outer Layer	Drill Hole Displacement (DHD) measurement			
Multisurface Inspection	Photo Resist, Diazo Film,			
Pinless Alignment	Pin-less registration – Panel Edge Alignment			

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