Titan^{HR8}



- New High Resolution Cameras
- SVI™ Technology Generating the Highest Throughput and efficiency
- Pixel-to-Pixel An Absolute Inspection.
- Highest Quality in Build Materials.
- Ergonomic Approach to High Production AOI.
- EMV™ Report only what you want.
- VRAC™ New Pin-less Registration
- New DHD™ Hole displacement measurement.

Productivity:

HR8 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 HR8 at the forefront of optical inspection solutions available today.

Inspection:

HR8 incorporates our successful and coveted inspection principle of pixel-to-pixel CAD reference comparison. This absolute inspection technique has zero inspection limitations regardless of board design and image complexity. Improved inspection efficiency from post inspection intelligence, or EMV™ calculates the validity of every pixel discrepancy. Then, only reports defects according customer defined quality control rules.

Intelligence:

HR8 uses our proven high powered opto-mechanical zoom lenses giving the best resolution flexibility in a dust and maintenance free package. The New HR8 CCD cameras with double the resolution and three times the sensitivity places the HR8 at the panicle of defect detection. HR8 maintains a unique ability to have inspection flexibility across a broad spectrum of applications allowing TITAN to be an essential asset in High-production Inner/Outer-layer down to 1.5mil feature sizes as well as its use as a Quality control inspection system for Dry-film and Photo-tool applications.

SVITM Technology provides multiple verification possibilities including simultaneous and verify and inspect 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

HR8 uses a Windows XP Graphical User Interface (GUI) providing the operator with 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.





OPTICAL INSPECTION (AOI)

21" x 30" (HR8x 24"x30") 533 x 762 mm	
0.0" 0.300" 0.0 7.0 mm	
21" x 30" (HR8x 24"x30") 533 x 762 mm	
Conventional bare copper incl: Shiny, matt, oxide coareverse-treat, double-treat, gold plated features; silver film	
 Pixel-to-Pixel Absolute inspection. EMV[™] Post Inspection Intelligence. DHD[™] Drill Hole Displacement Measuremer 	nt.
 SVITM Simultaneous Verify and Inspect. SVITM with Automated Ink Stamp. DV8 or Athena Offline Verification. 	
Three Point Pinless registration - Vacuum Table Auto Registration - Vacuum table Pinned Panel - Vacuum table	
 UCAM SmartAOI Supplied Standard: Automated CAM Preparation. All Common input formats. Golden-Board with On-line Image Edit. 	
Windows XP - Local languages	
62" x 66" x 72" 1,575mm x 1,676mm x 1829mm	า
110VAC 14Amps / 220VAC 7 Amps	
5,000 lbs 2,272 kg (Inc. Crate)	
90 PSI @ 1 CFM	
Drill Hole Displacement (DHD) measurement	
Photo Resist, Diazo Film	
	0.0" 0.300" 21" x 30" (HR8x 24"x30") 533 x 762 mm Conventional bare copper incl: Shiny, matt, oxide coareverse-treat, double-treat, gold plated features; silver film Pixel-to-Pixel Absolute inspection. EMV™ Post Inspection Intelligence. DHD™ Drill Hole Displacement Measurement SVI™ Simultaneous Verify and Inspect. SVI™ with Automated Ink Stamp. DV8 or Athena Offline Verification. Three Point Pinless registration - Vacuum Table Auto Registration - Vacuum table Pinned Panel - Vacuum table UCAM SmartAOI Supplied Standard: Automated CAM Preparation. All Common input formats. Golden-Board with On-line Image Edit. Windows XP - Local languages 62" x 66" x 72" 1,575mm x 1,676mm x 1829mm 110VAC 14Amps / 220VAC 7 Amps 5,000 lbs 2,272 kg (Inc. Crate) 90 PSI @ 1 CFM

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Pinless Alignment

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Pin-less registration - Panel Edge Alignment