Automated Optical Inspection

3K series Proven AOI Solution

The series powered with Vectoral Imaging is a modular AOI system. This equipment can be placed at any location of the board assembly line providing better flexibility. The machine is equipped with the P series optical heads: PERFORM or PREMIUM to offer greater versatility. This solution using a high-precision technology ensures accuracy, repeatability and short cycle times with a state-of-the-art XY gantry (composite granite base) and the programmable illumination system i-LITE, a proprietary tri-color axial & radial lighting system.



Inspection quality, throughput and ROI without compromise

- ▶ For Post Print, Mixed Mode, Pre Reflow or Post Reflow applications
- 100% inspection: presence, absence, polarity and placement accuracy as well as OCV, solder joint and lead inspection with Profiler® tool
- ▶ JEDEC component library powered with Vectoral Imaging technology inspection tools
- Real-time Statistical Process Control (SPC) capability
- Automatic conveyor width adjustment for boards up to 18" x 16"
- Cycle time: 250 000 to 400 000 components per hour
- Powered by i-LITE (Programmable Illumination System)







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SPECIFICATIONS

TYPE		3K	3K Dual Lane	
Mechanical system (dime	ensions in mm [inches])			
Maximum board dimensions		458 [18] x 406 [16]	2 x 458 [18] x 160 [6.3]	
Board thickness (minimum to maximum)		0.7 to 4 mm [0.02 to 0.16]		
Maximum board weight		3 kg [6.6 lb]		
Maximum inspectable board area		458 [18] x 406 [16]	2 x 458 [18] x 160 [6.3]	
Minimum inspectable board area		50 [1.96] x 50 [1.96]		
Clearance under camera		34 [1.33]	34 [1.33]	
Clearance under board		34 [1.33] (10 [0.39] closed to	34 [1.33] (10 [0.39] closed to clamp blades)	
Clamping system edge		3 [0.12]		
Board positioning		Board and panel fiducials		
XY table		Linear motors and coders		
Frame type		Composite granite		
P series optical heads	Camera resolution	Pixel size (Sub-pixel technology)	Field size	
Perform	2 352 X 1 728	8 µm	61.1 [2.40] x 44.9 [1.76]	
Premium	2 352 X 1 728	8 µm	61.1 [2.40] x 44.9 [1.76]	
Lighting system				
Lighting colors			i-LITE (red, green, blue)	
Lighting types		Axial and peripheral	Axial and peripheral	
Average inspection speed				
Inspection time per component		4 - 20 ms		
	d for solder paste (contacts pe	r mn)		
Perform		58 000		
Premium		75 000		
	time (components per hour)			
Perform		-	250 000	
Premium		400 000	•	
Type of components inspected		01005 up to exotic	01005 up to exotic	
Software				
Operating system		WINDOWS XP		
Vision integrated software suite		Standard		
Off-line programming software		Optional		
Off-line repair software			Optional	
Standard Library based on JEDEC packages		Standard		
Communication				
Upstream / downstream			SMEMA 2	
Network		TCP/IP, RJ45 plug		
Facilities				
Electrical supply			115 / 230 V, 50 / 60 Hz, 16 / 8 A	
Electrical consumption			1600 VA	
Machine dimensions W x D x H			1000 [39.37] x 1102 [43.38] x 2020 [79.52]	
Weight			1200 kg	
Transport height		950 ± 50 [37.4 ± 2] (option	950 ± 50 [37.4 ± 2] (option 850 ± 50 [33.5 ± 2])	

DIMENSIONS



