



COLOR 3D AOI

EAGLE 3D AOI Series



3D Automated Optical Inspection system

www.pemtron.com

EAGLE 3D AOI Series



EAGLE 3D AOI - TECHNOLOGY AND FEATURES

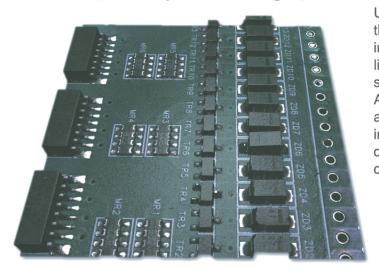
- Fully Automated 3D Inspection
- Quick and Easy Programming
- 3D Solution for Commonly Missed Defects
- Fast Inspection Times

Complete 3D Measurement Solution





[3D Inspection Image]

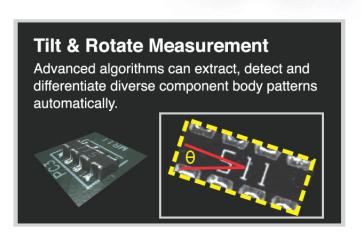


3D Solder & Height Measurement

Using our advanced 3D technology, the EAGLE 3D AOI is able to take inspection to levels that are limited by conventional 2D systems.

Adding solder height, volume and part co-planarity inspection bring enhanced defect detection capabilities.

3D Lead inspection 3D measurement algorithms enable the EAGLE 3D AOI to measure height & volume of solder leads proving full-high quality 3D images.



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Technology and Features

Statistical Process Control





- Provides various tools and color charts for ease of view and reporting.
- Quality Control Management
- Networkable Auto Reporting Tools

Ease of use programming and real time debugging.





- Real time "on-the-fly" ± debugging integration.
- Library Management System
- Easy CAD & Gerber Data Registration TXT, CSV and XLS Compatible Formats

Statistical Process Control





Multi-light projectors overcome specular reflections which is the basis of accurate and shadow-free 3D inspection.

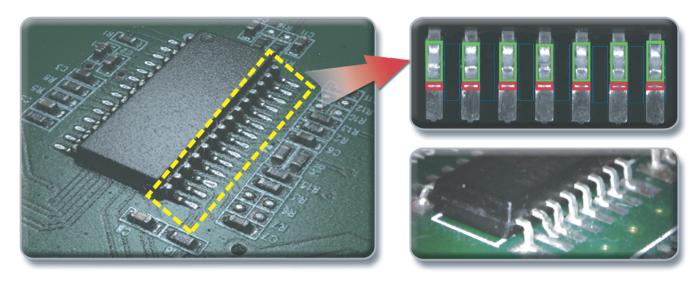
Proven Moire Technology

Over 10 years of integrating Phase Measurement Profilometry Technology into our solder paste inspection systems has proven the most advanced 3D technology available.



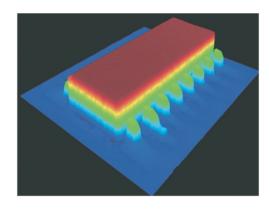
Technology and Features

State of the Art Inspection Solution for IC Leads



2D+3D Inspection IC Lead / Solder inspection

Lead and solder area can be distinguished through 2D&3D data gathering with Top, Middle, Bottom lighting source.



Ease of programming (Single Click Auto Teach Function)







Pemtron's Auto Teach and Integration Tool provides users the ability to speed JOB (program) creation times.

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SPECIFICATIONS

Model			EAGLE 3D - 8800			EAGLE 3D - 8800HS (High Speed)	
Camera			4MP			12MP	
X/Y Pixel Resolution			10um	15um	20um	10um	15um
Inspect Speed			6cm²/sec	14cm²/sec	25 cm² / sec	17cm²/sec	28 cm² / sec
FOV (Field Of View)			20 x 20 mm	31 x 31 mm	41 × 41 mm	41 × 41 mm	61 x 46 mm
Height Range			0-5mm				
Height Accuracy			2 µm				
Max. PCB Warpage			±3mm				
Motor Type			XY Linear Servo Motor				
Resolution			1 μm / Pulse				
Accuracy			± 3 µm				
PCB	Working Area	Standard	Min. 50 x 50 mm(2 x 2 inch) Max. 350 x 260 mm(13 x 10 inch)				
		Large	Min. 50 x 50 mm(2 x 2 inch) Max. 510 x 460 mm(20 x 18 inch)				
	Thickness		0.4 ~ 5.0 mm				
	Top Clearance		45 mm				
	Bottom Clearance		27mm				
Conveyor system			SMEMA Standard, Auto Adjustable				
Electrical requirements			AC 220V ±10%, 50/60Hz				
Power Consumption			3.5 KW (16,0A Max@220 AC)				
Operation Condition			Temperature: 0~40°C, humidity: 30~80% RH				
Control Method			Windows 7, 64 bit (PC based Control)				
Monitor			24" LED Panel				

^{*} Above specifications are subject to change without notice due to products upgrades.







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