EAGLE 3D 8800

Compact

3D Automated Optical Inspection system

PEMTRON

Technology and Features

Advanced High Speed Inspection and Measurement Technology

Shadowless Phase Measuring Profilometry

EAGLES 4MP 8 Projector 3D AOI inspects 100% of the PCB in 2D and 3D. Combining the 2 technologies gives a complete optical inspection of a PCB shadow free and low false calls maintaining a high flexibility in system functionality.

Moiré Technology

Over 10 years of integrating Phase Measuring Profilometry Technology into our TROI Solder Paste Inspection Systems has proven the most advanced 3D technology available.

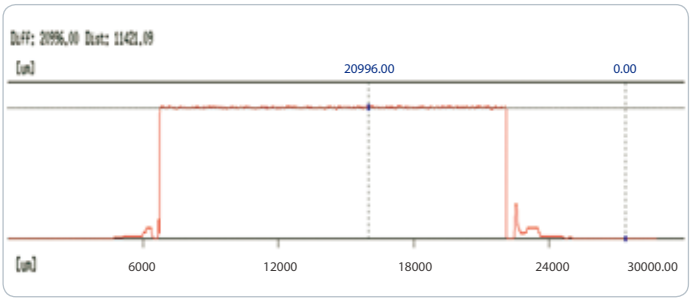
8 Projection + Three stage lighting
2D and 3D simultaneous inspection algorithms
Telecentric Lens offers higher accuracy and detection
High Speed CPU and Image Processing
User Friendly Graphical Interface
Built in Library Management System
Offline Real Time Debug Station (Optional)

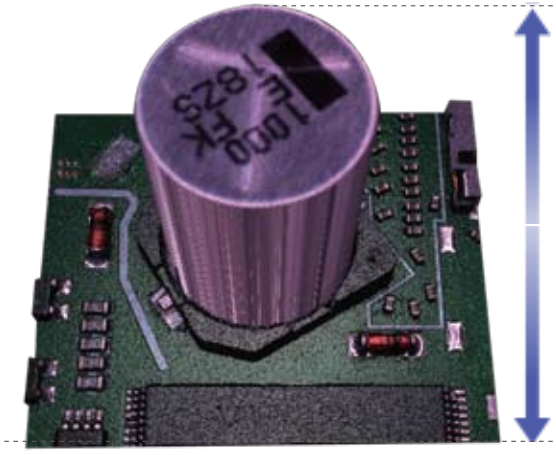
High Speed Inspection Technology

EAGLES High Speed Option inspects in 40.5cm sq. per sec. by utilizing an advanced network of more robust CPU, controller boards and our proprietary developed 9MP 15um 150fps camera with telecentric lens.

High Component Inspection Technology

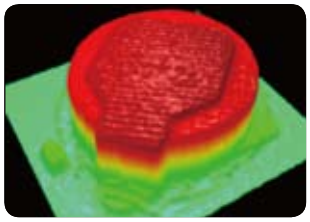
EAGLES optional new 10-Way Projection Technology offers an industry first 27mm component height inspection in 100% 3D.





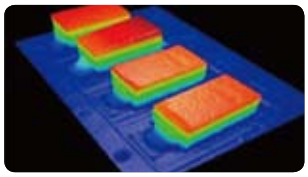
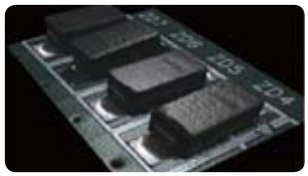
Shadow Free 3D Technology

Eliminates shadow issues on highly populated PCBs and tall components



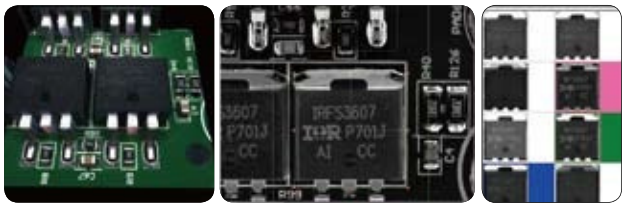

3D Solder & Height Measurement

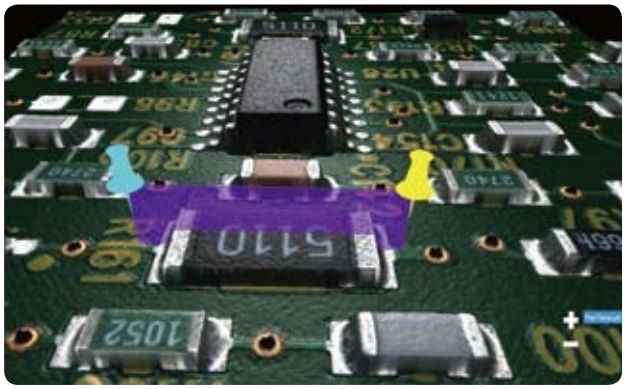
Using our advanced 3D technology, the EAGLE is able to take inspection to levels that are limited by conventional 2D systems. Adding solder height, volume and part co-planarity inspection provides enhanced defect detection capabilities.

Optical Character Recognition

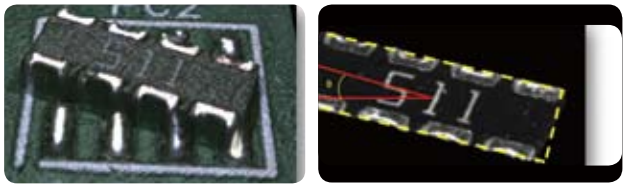
Recognizes component part characteers by using color and pattern algorithms. Ability to add & modify OCR font to optimize inspection condition.





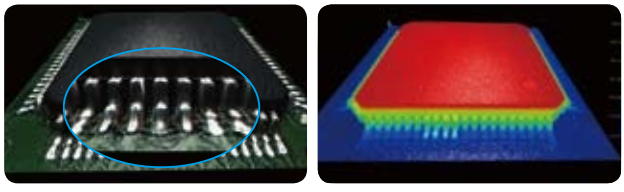
Tilt & Rotate Measurement

Advanced algorithms can extract, detect and differentiate diverse component body patterns automatically.



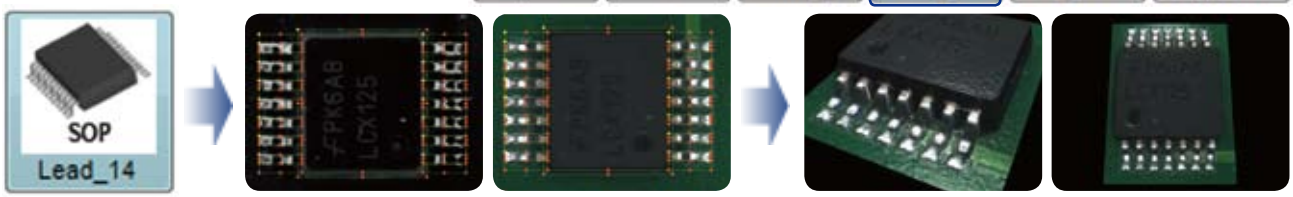
3D Lead Inspection

3D measurement algorithms enable the EAGLE to measure lead height and volume of solder proving full-high quality 3D images.



Ease of programming (Auto Teach Function)

Advanced 3D imaging technology allows us to measure and recognize the geometric shapes of PCB components and automatically link them to our built in parts library.



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EAGLE 3D 8800 Compact

SPECIFICATIONS

Model			Eagle3D 8800 Compact			EAGLE 3D – 8800HS Compact			EAGLE 3D – 8800PRO Compact
Camera			4MP			10MP			12MP
X/Y Pixel Resolution			10um	15um	18 um	10um	15um	18um	15um
Inspect Speed			9.12cm²/ sec	20.5cm²/ sec	29.5 cm²/ sec	19.8 cm²/sec	44.55 cm²/ sec	64.15 cm/ sec	52.652cm/ sec
FOV (Field Of View)			20 x 20mm	30 x 30mm	36 x 36mm	33 x 30mm	49.5 x 45mm	59.4 x 54mm	45 x 60mm
Height Range			0 – 5.5mm (option 27mm)						
Height Accuracy			± 3%						
Max. PCB Warpage			± 3mm						
Motor Type			Ball screw						
PCB Specification	Inspection Size	Standard	Min. 50 x 50mm (2 x 2 inch) Max. 330 x 250mm (13 x 10 inch)						
		Large	Min. 50 x 50mm (2 x 2 inch) Max. 510 x 460mm (20 x 18 inch)						
	Thickness		0.4 ~ 7.0mm						
	Top Clearance		50mm						
	Bottom Clearance		50mm						
Electrical requirements			200 ~ 240Vac, 1Phase, 50/60Hz						
Power Consumption			3.5KW (16.0A Max @ 220 AC)						
Machine Dimension	W x D X H / Weight (Standard)		840x1085x1550mm (40 x 47 x 63inch) / About 550kg						
	W x D X H / Weight (Large Type)		1020x1085x1550mm (47 x 54 x 63inch) / About 850kg						

* Specifications subject to change without notice.

OSDEMS INDUSTRIAL

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