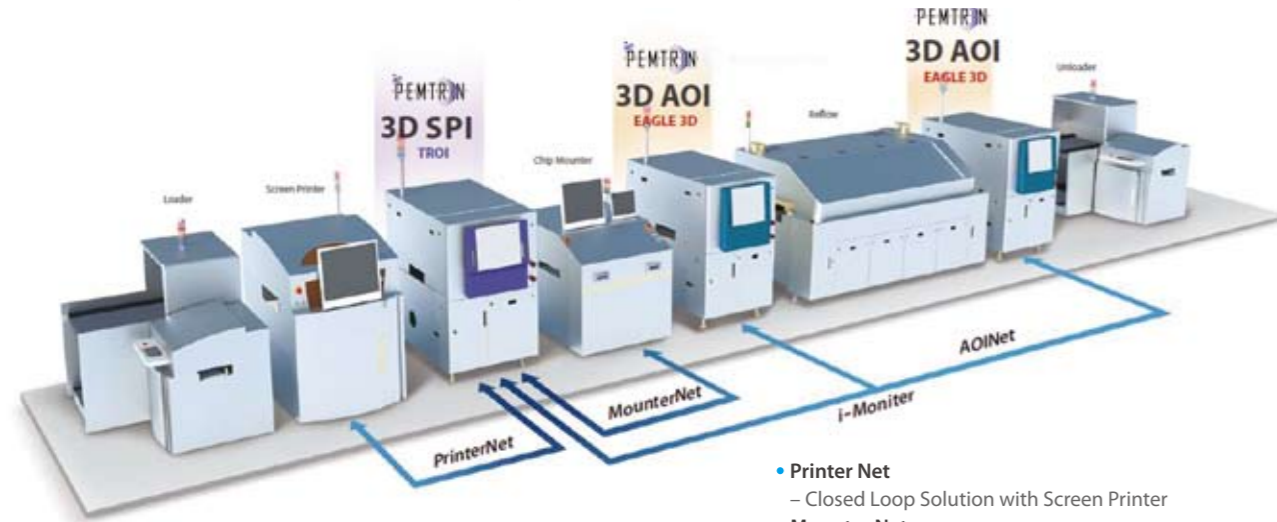
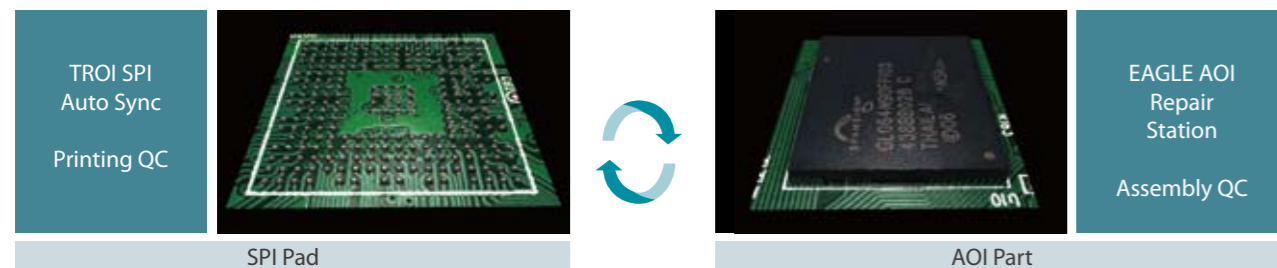


Real Time Process and Quality Control Solutions

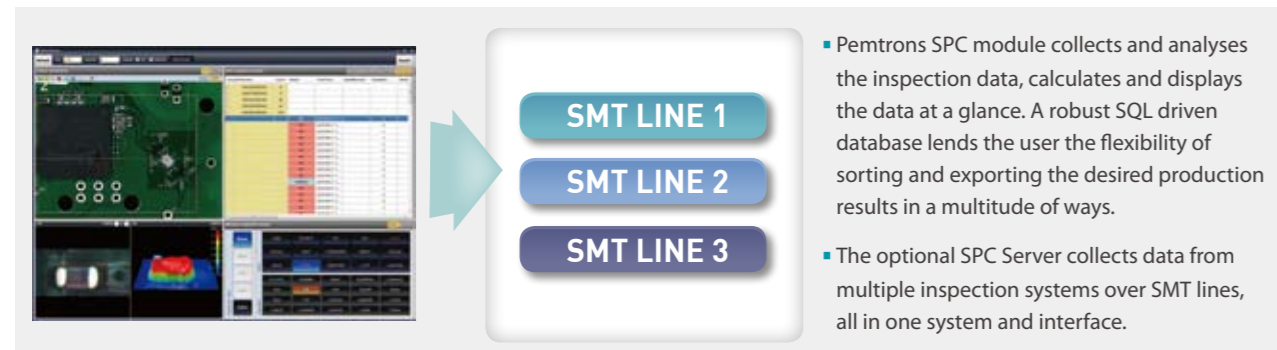
Inspection Result Information Auto Sync.



- **Printer Net**
– Closed Loop Solution with Screen Printer
- **Mounter Net**
– Closed Loop Solution with Mounter
* Bad Mark Mounter Sync and Adaptive Process Control
- **TROI SPI & EAGLE 3D AOI closed loop function**
– Real time defect confirm
- **i-Monitor**
– Control a maximum of twelve on one monitor



Statistical Process Control



EAGLE 3D 8800 Series

SPECIFICATIONS

Model	EAGLE 3D - 8800			EAGLE 3D - 8800HS			EAGLE 3D - 8800PRO
Camera	4MP			10MP			12MP
X/Y Pixel Resolution	10um	15um	18 um	10um	15um	18um	15um
Inspect Speed	9.1 cm ² / sec	20.5 cm ² / sec	29.5 cm ² / sec	19.2 cm ² / sec	43.2 cm ² / sec	61.5 cm ² / sec	52.65 cm ² / sec
FOV (Field Of View)	20 x 20mm	30 x 30mm	36 x 36mm	32 x 30mm	48 x 45mm	57 x 54mm	45 x 60mm
Height Range	0 - 5.5mm (option 27mm)						
Height Accuracy	± 3%						
Max. PCB Warpage	± 3mm						
Motor Type	XY Linear Servo Motor						
PCB Specification	Inspection Size	Standard		Min. 50 x 50mm (2 x 2 inch) Max. 330 x 330mm (13 x 13 inch)			
		Large		Min. 50 x 50mm (2 x 2 inch) Max. 510 x 510mm (20 x 20 inch)			
	Thickness	0.4 ~ 7.0mm					
	Top Clearance	50mm					
	Bottom Clearance	50mm					
Electrical requirements	220 ~ 240Vac, 1Phase, 50/60Hz						
Power Consumption	3.5KW (16.0A Max @ 220 AC)						
Machine Dimension	W x D X H / Weight (Standard)	1010x1190x1600mm (40 x 47 x 63inch) / About 750kg (1653lb)					
	W x D X H / Weight (Large Type)	1190x1370x1600mm (47 x 54 x 63inch) / About 970kg (2143lb)					

* Specifications subject to change without notice.

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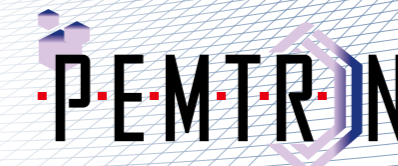
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EAGLE 3D 8800 Series

3D Automated Optical Inspection system



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.

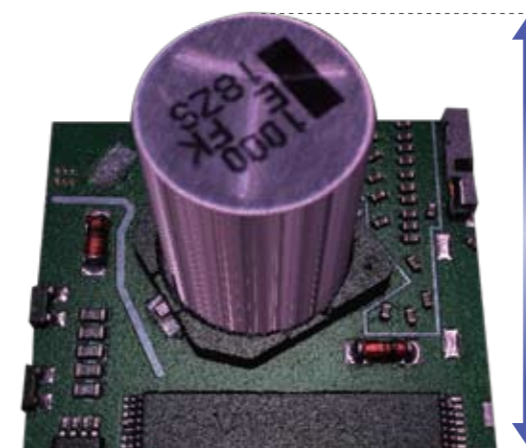
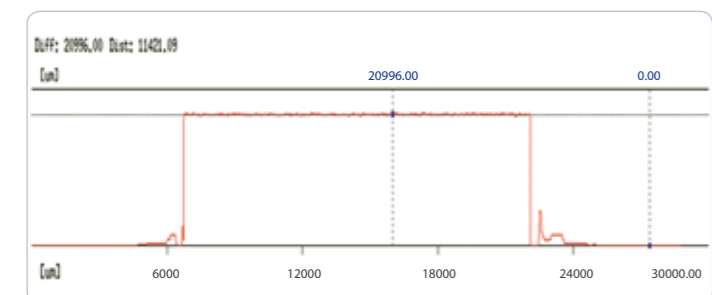
- 8 Projection + Three stage lighting
- 2D and 3D simultaneous inspection algorithms
- Telecentric Lens offers higher accuracy and detection
- High Speed CPU and Image Processing
- User Friendly Graphical Interface
- Built in Library Management System
- Offline Real Time Debug Station (Optional)

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.

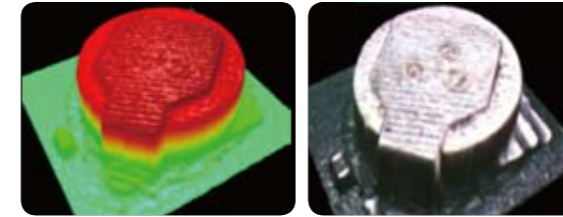
High Component Inspection Technology

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



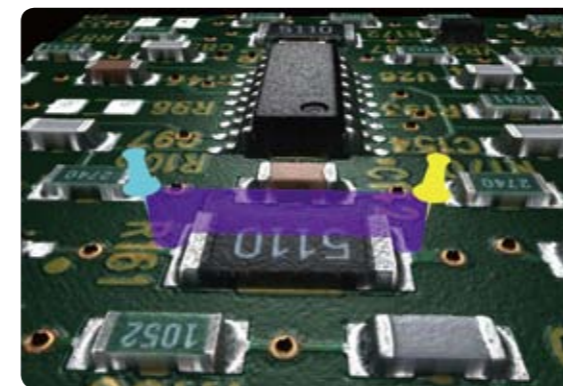
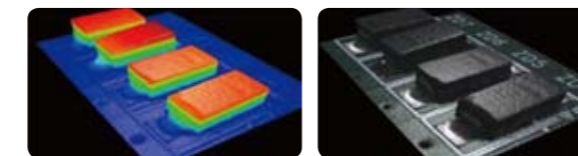
Optical Character Recognition

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



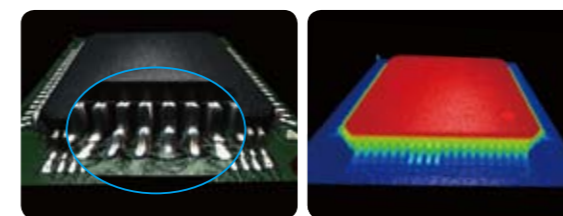
3D Solder & Height Measurement

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.



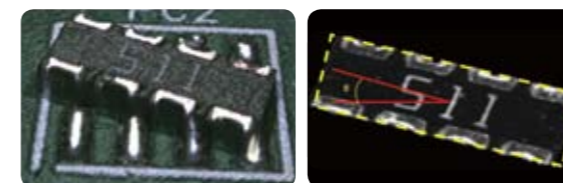
3D Lead Inspection

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

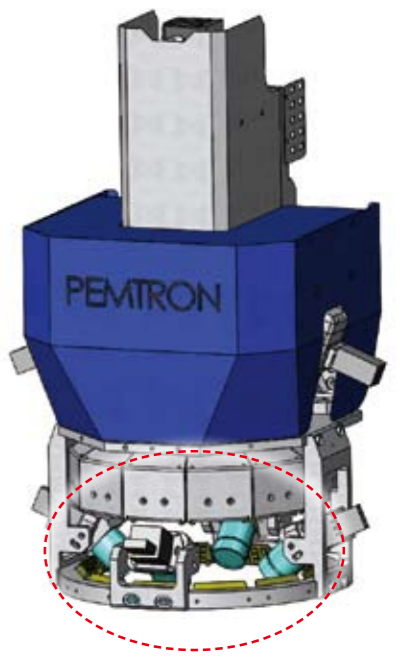
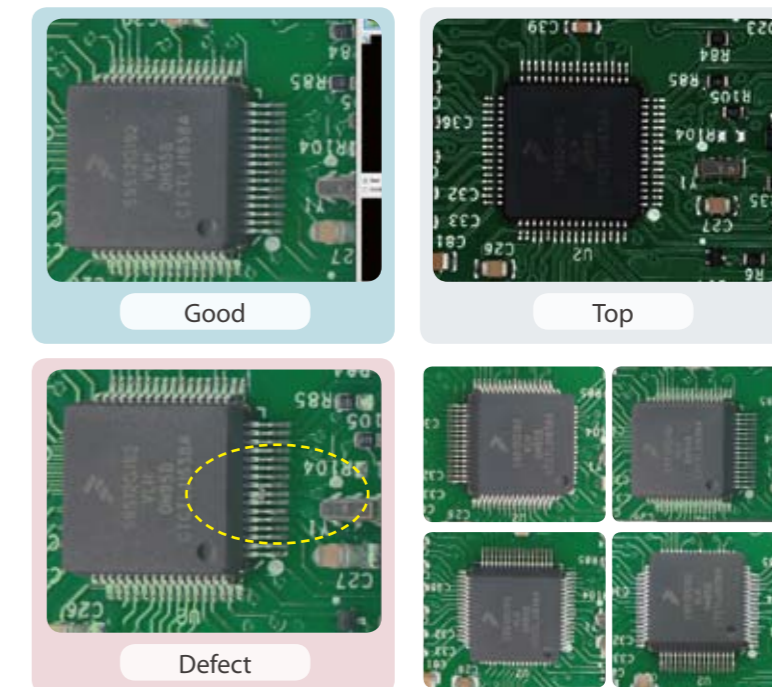


Tilt & Rotate Measurement

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



An accurate and convenient inspection by using Side Camera



- 4-Way Side Camera (Option)
- Possible to detect inside bridge which it cannot detect with Top camera
- Possible to detect Connector inside area
- Convenient Teaching by using existing Algorithm.
- Real time inspection algorithm for Side Camera

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.

