

EAGLE 3D 8800 Compact

3D Automated Optical Inspection system



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Technology and Features

Advanced High Speed Inspection and Measurement Technology

Shadowless Phase Measuring Profilometry

EAGLES 9MP 8 Projector 3D AOI inspects 100% of the PCB in 2D and 3D. Provide 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.

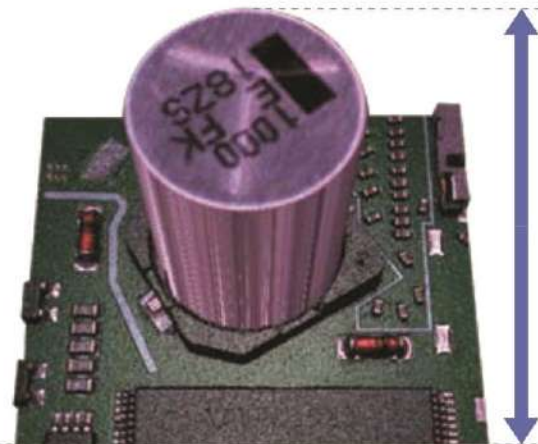
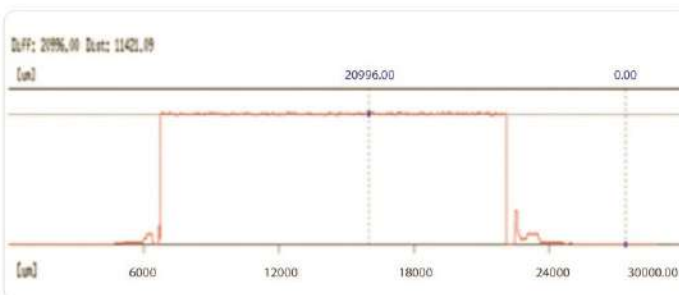
- 8 Projection + Three stage lighting
- 2D and 3D simultaneous inspection algorithms
- Telecentric Lens offers higher accuracy and detection
- High Speed CPU and Image Processing
- User Friendly Graphical Interface
- Built in Library Management System
- Offline Real Time Debug Station (Optional)

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.

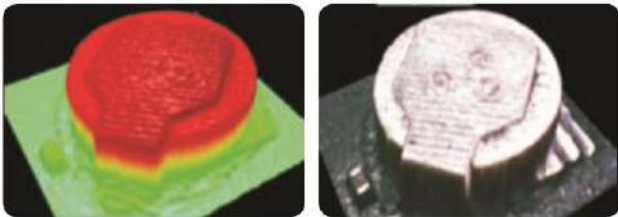
High Component Inspection Technology

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



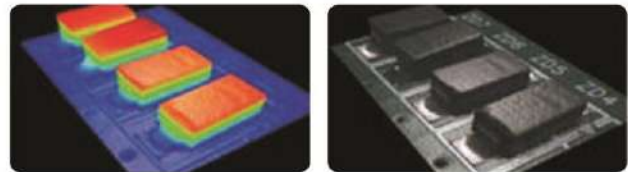
Shadow Free 3D Technology

Eliminates shadow issues on highly populated PCBs and tall components



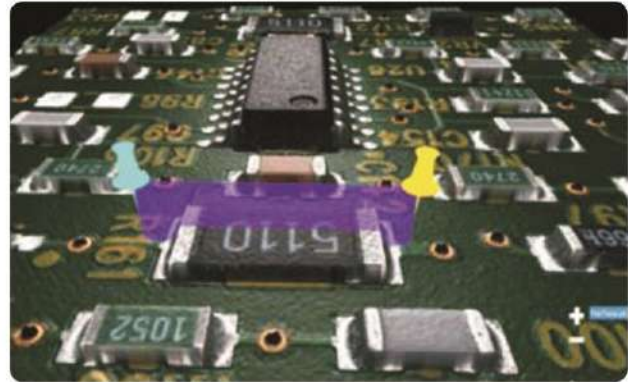
3D Solder & Height Measurement

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.



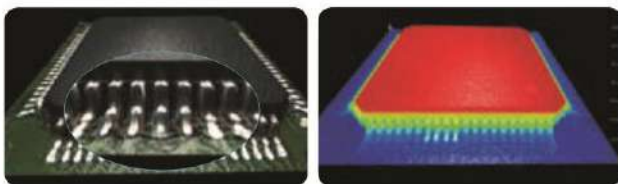
Optical Character Recognition

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



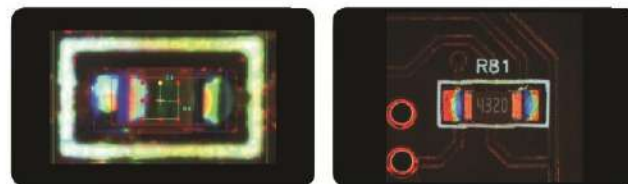
3D Lead Inspection

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



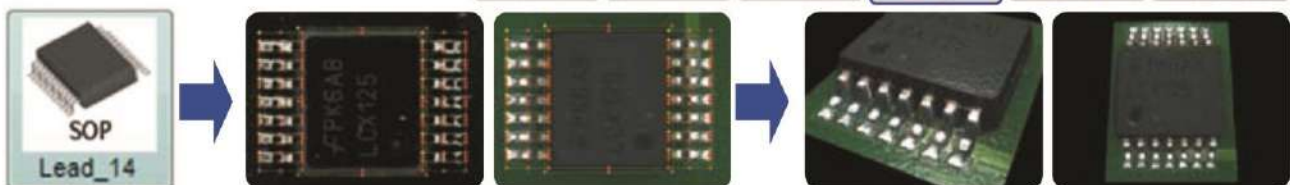
2D RGB Algorithms

Through the RGB distinguish, operator can easily confirm the failures such as cold joint and lift lead.



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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SPECIFICATIONS

Configuration	Compact Standard Version		Compact Pro Version
Camera	10MP		12MP
X/Y Pixel Resolution	10um	15um	18um
Inspection Speed	19.8 cm ² /Sec	44.55 cm ² /Sec	64.15 cm ² /Sec
FOV (Field Of View)	33X30 mm	49.5X45 mm	59.4X54 mm
Model	EAGLE 3D 8800HS CPT		EAGLE 3D 8800HSL CPT
Max. PCB Size	330*250mm		510*460mm
Min. PCB Size	50*50mm		
Dimension / Weight	920X1085X1500mm / About 680kg		1080X1290X1500 mm / About 790kg
Electrical Requirements	220 ~ 240 Vac , 1 Phase, 50/60Hz		
Power Consumption	3.5KW(16.0A Max)		
Thickness	0.4 ~ 7.0 mm		
Top Clearance	50 mm		
Bottom Clearance	50 mm		
Height Range	0 ~ 5.5 mm (Option 27 mm)		
Height Accuracy	+/-5%		
Max PCB Warpage	+/- 3 mm		
Motor Type	SERVO MOTOR + BALL SCREW		
Conveyor Type	1 Stage Standard		3 Stage and Extension Rail Not Support
Control Unit	PC (I7-7700, 1TB+500G , 16G memory) / Monitor (24 inches)		
Option	• Offline Editor		• Inline Debugging
	• 3D Target (KTL)		• 2D Glass Board JIG
	• NG Buffer		• NG Conveyor
	• Rework Station		• i-Monitor SPC Station
	• i-PEMTRON Closed Loop		• Shopfloor
	• Bottom Side Barcode		• UPS



* Specifications Subject To Change Without Notice



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