

EAGLE 3D 8800 Compact

3D Automated Optical Inspection System



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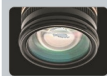
Technology and Features

Advanced High Speed Inspection and Measurement Technology

Shadowfree Phase Measuring Profilometry

EAGLES 9MP 8 Projector 3D AOI inspect 100% of the PCB in 2D and 3D provide a completely optical inspection of PCB shadow free and low false call 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 of 2D lighting
- 2D and 3D simultaneous inspection algorithms
- Telecentric Lens provide higher accuracy and detection
- High Speed GPU and Image Processing
- User Friendly Graphical Interface
- Built in Library Management System
- Offline Real Time Debug System(Optional)

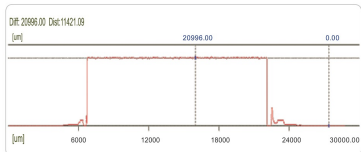


High Speed Inspection Technology

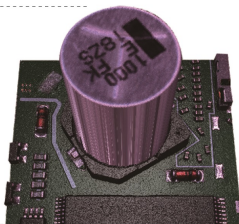
EAGLES High Speed Option inspect in 40.5cm²/s by utilizing an advanced network of more powerful GPU, controller boards and our proprietary developed 9MP 15um 180fps camera with telecentric lens.

High Component Inspection Technology

EAGLES optional new 10-Way projection technology provide an industry first 27mm component height inspection in 100% 3D.

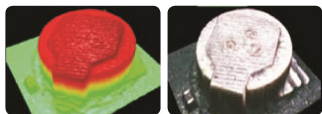


27mm



High Speed Inspection Technology

Eliminates shadow issues on highly populated PCB and tall components.



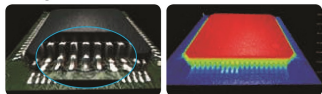
Optical Character Recognition

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



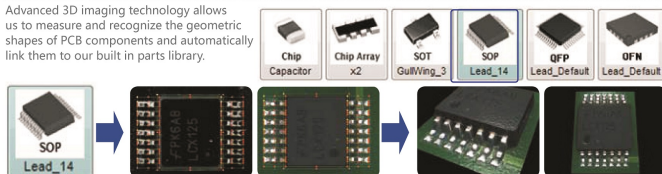
3D Lead Inspection

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



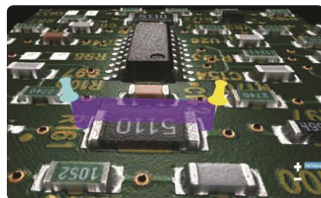
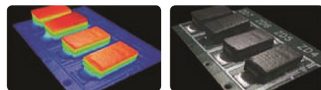
Ease of programming (Auto Teach Function)

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.



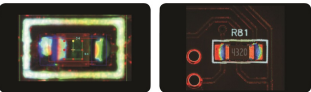
3D Solder & Height Measurement

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 coplanarity inspection provide enhanced defect detection capabilities.



2D RGB Algorithms

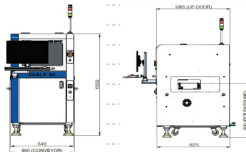
Through the RGB distinguish, operator can easily confirm the failures such as cold joint and lift lead.



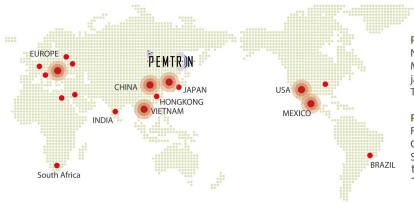
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SPECIFICATIONS

Configuration	Compact Standard Version			Compact Pro Version
Camera	10MP			12MP
X/Y Pixel Resolution	10um	15um	18um	15um
Inpection Speed	19.8 cm ² /Sec	44.55 cm ² /Sec	64.15 cm ² /Sec	52.65 cm ² /Sec
FOV (Field Of View)	33X30 mm	49.5X45 mm	59.4X54 mm	45X60 mm
Model	EAGLE 3D 8800HS CPT	EAGLE 3D 8800HSL CPT	EAGLE 3D 8800HSD CPT	EAGLE 3D 8800HSDL CPT
Max. PCB Size	330*250mm	510*460mm	Dual:330*280mm Single:330*500mm	Dual:510*330mm Single:510*600mm
Min. PCB Size	50*50mm			
Dimension / Weight	920*1085*1550mm 705kg	1100*1295*1550mm 850kg	920*1465*1550mm 850kg	1100*1610*1550mm 1010kg
Electrical Requirements	220 ~ 240 Vac , 1 Phase, 50/60Hz			
Power Consumption	3.5KW(16.0A Max @ 220 AC)			
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	+/-3%			
Max PCB Warpage	+/- 3 mm			
Motor Type	SERVO MOTOR + ballscrew			
Conveyor Type	1 Stage Standard			
Control Unit	PC(i7-8700 , 2TB+500G , 32G memory) / Monitor(24 inch)			
Option	• Offline Editor	• Inline Debugging	• Rework Station	• SMARTRON
	• 3D Target (KTL)	• 2D Glass Board JIG	• i-PEMTRON Closed Loop	• NG Buffer
			• Bottom Side Barcode	• UPS



* Specifications Subject To Change Without Notice



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