

EAGLE 3D 8800 TWIN

3D Automated Optical Inspection system
Top/Bottom Double Sided Simultaneous Inspection



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TECHNOLOGY AND FEATURES

Based on advanced technology, EAGLE 3D 8800 TWIN minimizes errors caused by shadow effects by applying 12-way and 16-way projection including 8-way projection for 3D measurement to all models and simultaneously performs 100% 2D & 3D inspection in all FOV areas. Thus makes it possible to achieve a near-perfect detection while significantly reducing false calls.

PEMTRON's new head type has been upgraded to express real images based on the Phase Measuring Profilometry Technology accumulated over decades in the existing head.

Simple Head Configuration

- ▶ Large space and convenient maintenance, simple assembly and setup

Advanced 3D Technology

- ▶ Stable and accurate 3D realization by installing additional projectors
- ▶ 3D formation of high-density components and narrow space parts
- ▶ 3D image formation identical to a real image
- ▶ Inspect even tall parts clearly using top side Z-axis

Improved Repeatability

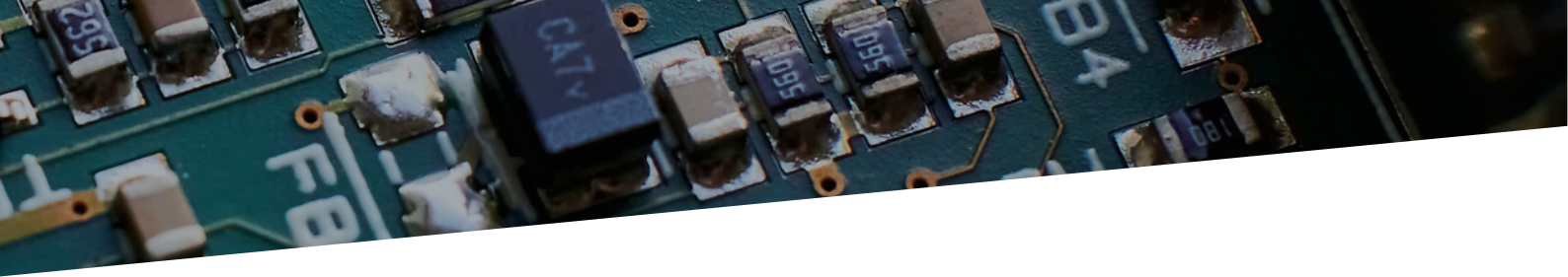
- ▶ Accurate 3D makes repeat accuracy more reliable



Top & Bottom Double Sided Driving System

- ▶ Top/Bottom Double Sided Simultaneous Inspection
- ▶ Reduction Of Time Loss
- ▶ Full Performance, Full Speed
- ▶ Multi Configuration
 - AOI + AOI / AOI + THT /
 - THT + AOI / THT + THT





ACCURATE DEFECT JUDGEMENT & CLEAR IMAGE

“Best detection capability” for the best 3D images

1µm resolution height detection - always clear and best accuracy

Component size X. Unlimited Y input – uninterrupted high-speed image acquisition



SMARTRON

Factory Optimization Solution
System RMS / Alarm / SPC / Job & Library management



Real-time Line Monitoring and Control

- RMS(Remote Monitoring System)

- Registered System status

Data Analytics and Reporting

- Yield / CpCpk / Job & Part analysis etc.

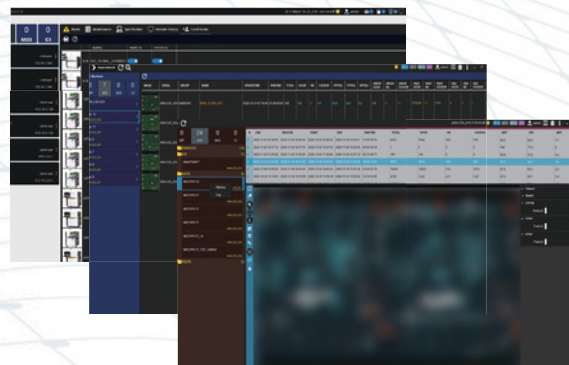
- Statistical Chart / Process Chart / Alarm History

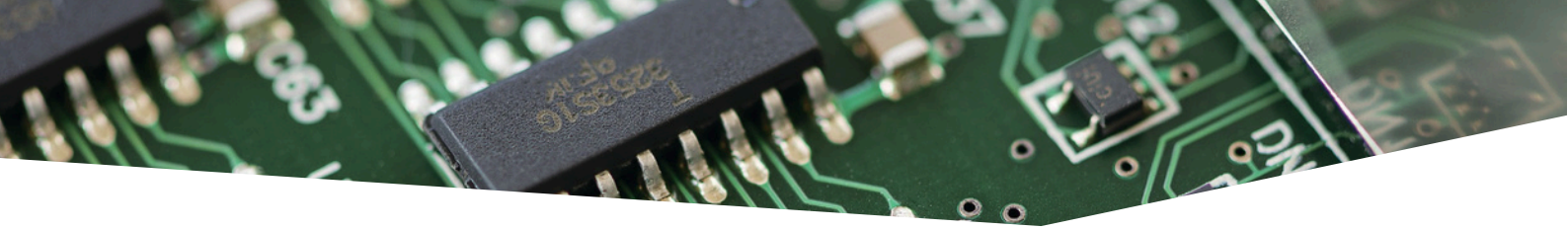
Quality Management Solution

- Multiple line & systems maintenance management

Job & Library management

- Optimizing based on classified result data





SPECIFICATIONS

Model		EAGLE 3D-8800 TWIN			
Camera		10MP		12MP	
Resolution		10um	15um	15um	
Inspection Speed		19.2 cm ² /sec	43.2 cm ² /sec	52.65 cm ² /sec	
FOV (Field Of View)		30 x 30 mm	45 x 45 mm	45 x 60 mm	
Height Range		0 – 5.5mm(option 27mm)15um			
Motor Type		XY Linear Servo Motor			
Model		EAGLE 3D-8800 TWIN		EAGLE 3D-8800 TWIN L	
PCB Specification	Inspection Size	Max. PCB Size	330 x 330mm(13 x 13 inch)		510 x 510mm(20 x 20 inch)
		Min. PCB Size	50 x 50mm (2 x 2 inch)		
	Thickness		0.4 ~ 7.0mm		
	Top Clearance		50mm		
	Bottom Clearance		50mm		
Electrical Requirements		200~240Vac, 1Phase, 50/60Hz			
Power Consumption		7kW (20A Max @ 220V AC)			
Dimension (W x D x H)		1610 x 1835 x 1550mm (63 x 72 x 61inch)			
Weight		1940kg (4277lb)			

* Specifications subject to change without notice.



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