Color 3D SPI TROI-7700E Series

3D Inline Solder Paste Inspection System





TROI-7700E Series

Technology and Features

Dual Projection

Combination of 2D & 3D inspection eliminates common shadow problem with SPI systems.

64 bit Windows 7 Operation System

Fast & Stable Operating System for high density PCB.

User Friendly Graphical Interface

Self-developed Gerber Editor controls the main functions on one page which means it's eliminating the effort of switching between multiple screens. It is also possible to register or edit the data quickly and easily by any users.

Color 3D SPI

Conventional SPI methods could only calculate heights above silk print levels, but by using patented color enhancing algorithm TROI™ could overcome these problems.

In addition, a fully rotational 3D view of the solder form is displayed. This enables users to view a "life like" image of the pad eliminating the need to extract the board from the line to view the defect under a microscope.

High Speed & Performance

By improving the camera inspection speed, TROI™ show same performance as single projection.

SPI Standard Libray

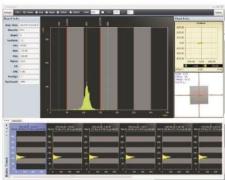
Base on the experience of AOI, PEMTRON firstly import the standard library for SPI. So can Link all the parameter in different programs be the same. When create new program, just one step to finish parameter setting for all pad,

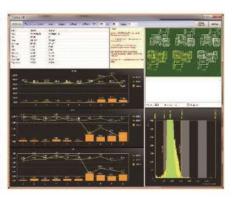
reduced the programming time.

Enhanced SPC System

SPC system analyses the defective data and controls the process problems or the production rate at a look. SPC data can be saved in a various file format such as PDF, Excel, Image and etc as users like. Also with the enhanced SPC server function, data from multiple lanes can be controlled together or individually.





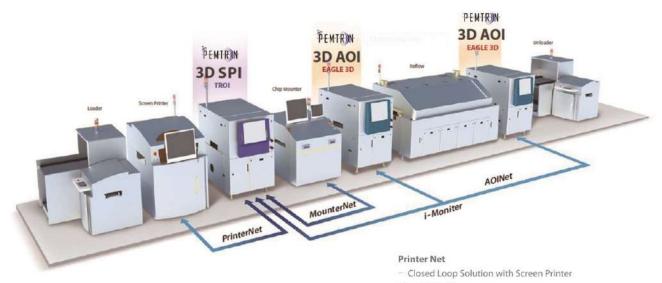






Real Time Process and Quality Control Solutions

Inspection Result Information Auto Sync.

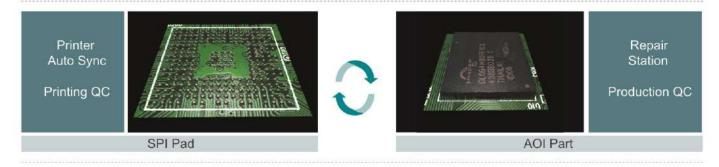


Mounter Net

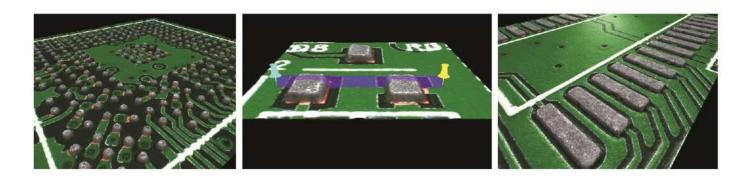
- Closed Loop Solution with Mounter
- *Bad Mark Mounter Sync and Adaptive Process Control

TROI SPI & EAGLE 3D AOI closed loop function

-Real time defect confirm



Realistic 3D Image



TROI[™] Series (Solder Paste Inspection System)

SPECIFICATIONS

Configuration	Standard Version			High Speed Version		
Camera	4MP			9MP		
X/Y Pixel Resolution	10um	15um	18um	10um	15um	18um
Inpsection Speed	12.8 cm ² /Sec	30.7 cm ² /Sec	42.8 cm ² /Sec	34 cm ² /Sec	73 cm ² /Sec	102 cm ² /Sec
FOV (Field Of View)	20.5X20.5 mm	30.7X30.7 mm	36X36 mm	30X30 mm	45X45 mm	54X54 mm
Model	TROI-7700E TROI-7700EL					
2D Vision Algorithm	2D : Vision Inspection Algorithm					
BD Vision Algorithm	3D : PMP (Phase Measuring Profilometry) Algorithm					
Measurements	Volume, Height, XY Position, Area					
Detection Types	Insufficient Paste, Excessive Paste, Shape Deformity, No Paste, Bridge 2D&3D, Paste Displacement					
Max. PCB Size	330X330mm (10um,15um,18um) 510X510mm(10um,15um,18um)					
Min. PCB Size	50 X50mm					
Dimension / Weight	900X1085X1545 mm / 580kg 1100X1230X 1540mm / 730kg					/ 730kg
Electrical Requirements	220 ~ 240 Vac , 1 Phase, 50/60Hz					
Air Requirement	5 Kgf/cm ²					
Power Consumption		1.4 KW(6.5 A Max)	1.8 KW(8.0 A Max)		
Thickness	0.4 ~ 7.0 mm				•	
Bottom Clearance	27 mm					
Height Range/Resolution	0 ~ 450 um / 0 ⁻ 4 um				h	
Height Accuacy	1 um				Del	1.0.0
Max PCB Warpage	+/- 5 mm					0 0
Motor Type	Servo Motor + Ball Screw			国市	0墨	B B
Control Units	PC(I7-7700,1TB+500G,16G memory) / Monitor (24 inches)					190
	Offline Editor					on
Option	3D Target (KTI	et (KTL) • 2D Glass Board JIG • Bottom Side Barcode				
	NG Buffer		NG Conveyor	• UI	PS •Shopfloor	

^{*} Specifications Subject To Change Without Notice





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