

KY8030-2

Worlds Best Selling True 3D Solder Paste Inspection



Real Time Warp Compensation Solution



User-friendly Software



3D Measurement based SMT Process Control System

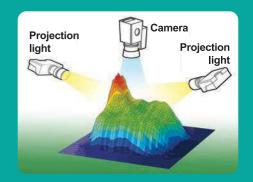






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Worlds Best Selling True 3D Solder Paste Inspection



Dual Projection Technology

KY8030-3 delivers true 3D inspection without concern for inaccuracies resulting from shadowing.

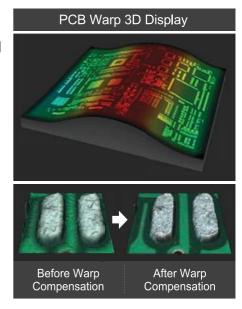


Warp Compensation Solution

Optional 🗹

Z-tracking 3D Compensation Solution

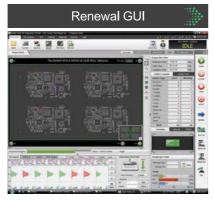
- Koh Young's Multi-Frequency technology applied
- Real time measurement and compensation of board warp, with respect to the ideal plane
- Real time online provision of high quality PCB images with measurement data

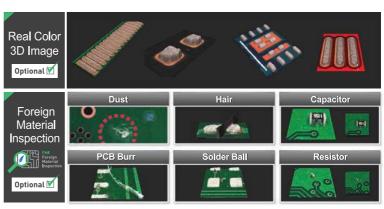




User-friendly Renewal GUI

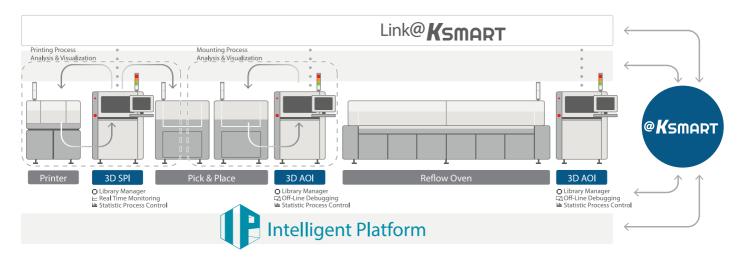
- · Optimized display for the user with smart menu groupings
- Supports user's defect readability and system usability by more intuitive software
- · Detects a wide range of defects using real images and 3D data







Intelligent Platform to Realize Fully Automated Process Optimization : Smart Factory

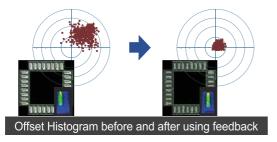




KSMART Process Optimizer

Optional 🗹

- Real time communication of printing process monitoring data with Screen Printers
- Supports pick-and-place process optimization by controlling panels containing defects



- Less Human Intervention
- Live Feedback without Sarcrificing Cycle Time



- Printing Quality Improvement
- Yield Improvement



SPC @ KSMART



Reliable 3D Data based Statistical Process Control

- Carry out essential analyses from an intuitive graphical interface
- Accelerate root cause analysis for increased equipment uptime





LINK (S) @ KSMART

Link@KSMART



3D data based SPI-AOI communication solution

- Review, diagnosis and optimization of printing, pick-and-place and reflow process
- Traces root cause of defects by storing and communicating inspection results from Koh Young's 3D SPI and 3D AOI Systems



Must-check Requirements of 3D SPI System



Requirements		Solutions		
Solution to Shadow Problem		3D Shadow Free Moiré Technology & Dual Projection		
Real time PCB Warp Compensation (2D+3D Solution)		Warp Compensation		
Operator User-friendliness		Renewal GUI, Real Color 3D Image		
Foreign Material Inspection		3D Foreign Material Inspection (optional)		
	· ·			
Inspection Items	Metrology Capability	Volume, Area, Height, Offset, Bridging, Shape Deformity, Coplanarity		
	Types of Defects	Insufficient/Excessive/Missing Paste, Bridging, Shape Deformity, Paste Offset, Coplanari		
	Camera Resolution			
	FOV Size	30×30mm(1.18×1.18 inch) 40×40mm(1.57×1.57 inch) 50×50mm(1.97×1.97 inch)		
	Full 3D Inspection Speed	22.5~56.1 cm²/sec (Inspection speed varies by PCB and inspection condition.)		
Inspection Performance	Min. Distance between Paste Deposit	100μm (3.94 mils) 150μm (5.91 mils) 200μm (7.87 mils)		
	Camera	4M Pixel Camera		
	Illumination	IR-RGB LED Dome Styled Illumination (optional)		
	Z Resolution	• 0.37µm		
	Height Accuracy (on KY Calibration target)	• 1µm		
	01005 Inspection Capacity Gage R&R (±50% tolerance)	• < 10% at 6σ		
	Max. Inspection Size	• 10×10mm 0.39×0.39 inch		
	Max. Inspection Height	• 400µm (2mm optional) 15.75 mils (78.74 mils optional)		
	Min. Distance between PADs	• 100µm (150µm paste height) 3.94 mils (5.91 paste height)		
	Various colored PCB Inspection	Possible		
PCB Handling	Conveyor Width Adjustment	Automatic		
	Conveyor Fix Type	Front / Rear Fixed (factory setting)		
	Supported Input Format	Gerber Data (274X, 274D), ODB++ (optional)		
Software	Programming S/W	• ePM-SPI		
		SPC@KSMART:		
		- Histogram, X-bar & R-Chart, X-bar & S-Chart, Cp & Cpk, %Gage R&R		
	Statistical Process Control Tool	- Real Time SPC & Multiple Display		
		SPC AlarmRemote Monitoring System		
	Operator User-friendliness	 Library Manager@KSMART KYCal: Auto Camera Calibration, Auto Illumination Calibration, 		
	operator ocer menannose	Auto Height Calibration		
	Operating System	Windows 7 Ultimate 64bit		
Add-on Solutions	1D & 2D Handy Barcode Reader	Remote Monitoring System Link@KSMART		
	1D & 2D hardy Barcode Reader 1D & 2D Inline Barcode Reader	Warp Compensation (Z-tracking) SPC@KSMART		
	Offline Programming Station	Foreign Material Inspection		
	Offline SPC Plus Station	Review Station		
	Standard Calibration Target	KSMART Process Optimizer		
	· UPS	• IR-RGB Light		

* Above specifications are subject to change without notice.

	M	L	DL	XL	
Max. PCB Size	330X330mm (13X13 inch)	510X510mm (20X20 inch)	Dual: 510X320mm (20X12.6 inch) Single: 510X580mm (20X22.8 inch)	850X690mm (33.4X27.1 inch)	
Min. PCB Size	50X50mm (1.97X1.97 inch)			70X70mm (2.7X2.7 inch)	
PCB Thickness	0.4~5mm (0.015~0.20 inch)			0.5~8mm (0.02~0.31 inch)	
Max. PCB Weight	ht Standard: 2kg(4.4 lbs), Heavy Weight Option: 5kg(11 lbs)			10kg (22 lbs)	
Machine Weight	550kg(1212 lbs)	600kg(1322 lbs)	700kg(1543 lbs)	850kg (1874 lbs)	
Bottom Side Clearance	50mm (1.97 inch)				
Supplies	200~240VAC, 50/60Hz Single Phase, 5Kgf/cm²				
W	820mm (32.2 inch)	1000mm (39.3 inch)		1350mm (53.1 inch)	
D	1295mm (50.9 inch)	1295mm (50.9 inch)	1475mm (58.0 inch)	1475mm (58.0 inch)	
Н	1727mm(67.9 inch)				
F	985mm (38.7 inch)		1165mm (45.8 inch)		

