



KY8030-3

High Speed, High Performance 3D In-line SPI with Dual Projection

MODEL		KY8030-3P		
		M, L, XL, XS size		
		Production Model		
Requirements & Solutions		Requirements	Solutions	
		Shadow Problem	3D Shadow Free Moiré Technology & Dual Projection	
		Real-time PCB Warp Compensation	(2D) Pad Referencing(Optional) (3D) Multi Frequency Moiré Technology+Z-tracking	
		Operator User Friendliness	Touch Screen Operation, EasyUse	
Inspection Items	Measurement Capability	Volume, Area, Height, Offset, Bridging, Shape Deformity, Coplanarity		
	Inspection Task	Insufficient/Excessive/Missing Paste, Bridging, Shape Deformity, Paste Offset, Coplanarity		
Inspection Performance	Inspection Speed	10 μm^*	0.32 sec/FOV	
		15 μm^*	0.34 sec/FOV	
		20 μm^*	0.35 sec/FOV	
		23.5 μm^*	0.35 sec/FOV	
	Height Accuracy (on a KY Calibration Target)	1.5 μm (15 μm^* resolution)		
	01005 Capability	Gage R&R ($\pm 50\%$ tolerance)	<< 10 % at 6 (on 01005 deposits)	
	Camera	4M Pixel		
	Z Resolution	0.37 μm		
	Volume Repeatability	< 1 % at 3 (on a KY Calibration Target), < 3% at 3 (on a PCB)		
	Min. Paste Deposit Size	10 μm^*	100 μm	3.94 mils
		15 μm^*	150 μm	5.91 mils
		20 μm^*	200 μm	7.87 mils
		23.5 μm^*	235 μm	9.25 mils
	FOV Size	10 μm^*	23.5 x 17.3 mm	0.93 x 0.68 inch
		15 μm^*	35.3 x 25.9 mm	1.39 x 1.02 inch
20 μm^*		47.0 x 34.6 mm	1.85 x 1.36 inch	
23.5 μm^*		55.3 x 40.6 mm	2.18 x 1.60 inch	
Max. Past Size	10.0 x 10.0 mm		0.39 x 0.39 inch	
Max. Paste Height	400 μm		15.75 mils	
Min. Distance between Paste Deposit	100 μm (at 150 μm paste height)		3.94 mils (at 5.91 mils paste height)	
PCB Color Sensivity	None			
PCB Handling	Conveyor Width Adjustment	Automatic		
	Conveyor Fix Type	Front/Rear Fixed (Factory Setting)		
	PCB Thickness	M	0.4-4.0 mm	0.016-0.16 inch
		L	0.4-5.0 mm	0.016-0.20 inch
		XL	0.5 - 8mm	0.020-0.31 inch
		XS	0.5 - 8mm	0.020-0.31 inch
	Max. PCB Weight	M	1.0 kg	2.2 lbs
		L	2.0 kg	4.4 lbs
		XL	10 kg	22.1 lbs
		XS	10 kg	
	Max. PCB Size	M	330 x 250 mm	12.99 x 9.84 inch
		L	510 x 510 mm	20.08 x 20.08 inch
XL		810 x 610 mm	31.89 x 24.02 inch	
XS		690 x 610 mm		
Min. PCB Size	50 x 50 mm		1.97 x 1.97 inch	
Software	Inspection Program Generation	Import GERBER Data (274X, 274D) / ODB++ (Optional)		
	Statistical Analysis Tool	SPC Plus - Histogram, Xbar&R Chart, Xbar&S Chart, Cp&Cpk, %Gage R&R - Real Time SPC & Multiple Display - SPC Alarm - Automatic Report from Remote Computer		
	User Friendliness	Size Dependant Library for Inspection Condition Setting User Defined Process Stop by Software		
	Operating system	Windows XP Professional		
Installation Specification	Machine Weight	M	500 kg	1102 lbs
		L	550 kg	1213 lbs
		XL	850 kg	1874 lbs
		XS	850 kg	1874 lbs
	Machine size	M	800 x 907 x 1573 mm	
		L	1000 x 1203 x 1572mm	
		XL	1310 x 1524 x 1636 mm	
XS	1200 x 1485 x 1636 mm			
Bottom Side Clearance	30 mm		1.18 inch	
Electrical Supply	200-240 VAC, 50/60 Hz Single Phase			
Air Supply	5 kgf/cm ²			
Options	Off-Line Programming Station			
	HDD Raid 1 (Mirrored)			
	Off-line SPC & Defect Review Station			
	Certified Calibration Target			
	UPS			
	2D RGB Righting			
	Multi-line Monitoring			
	ODB++ File Conversation			
Barcode Reader (1D/2D)				
Closed Loop				