



High-speed digital camera: 5-20 million pixels options for quality and stability. Features Windows 7 x64 for fast data processing. Independent GPU for image processing balances system efficiency. Technologically advanced with high resolution telecentric lens. Smart programming with easy-to-learn, high detection, and low error rates. Flexible maintenance via mobile devices, wireless network, and SQL data for detailed SPC analysis. Efficient offline programming software, real-time PCB image capture.

Technical Specifications:

Inspection System	Application	After stencil printing, pre/post reflow oven, pre/post wave soldering, FPC etc.
	Program Mode	Manual programming, auto programming, CAD data importing
	Inspection Items	Stencil printing: Solder unavailability, insufficient or excessive solder, solder misalignment, bridging, stain, scratch etc.
		Component defect: missing or excessive component, misalignment, uneven, edging, opposite mounting, wrong or bad component etc.
		DIP: Missing parts, damage parts, offset, skew, inversion, etc
	Soldering defect: excessive or missing solder, empty soldering, bridging, solder ball, IC NG ,copper stain etc.	
	Calculation Method	Machine learning, color calculation, color extraction, gray scale operation, image contrast, OCV/OCR etc.
	Inspection Mode	PCB fully covered, with array and bad marking function
SPC Statistics Function	Fully record the test data and make analysis, with high flexibility to check production and quality status	
Optical System	Minimum Component	01005 chip, 0.3 pitch IC
	Camera	5 million pix full color high speed industrial digital camera , 20 million pix camera optional
	Lens Resolution	10um/15um/18um/20um/25um, can be custom-made
Computer System	Lighting Source	Annular stereo multi-channel color light, RGB/RGBW/RGBR/RWBR optional
	CPU	Intel E3 or same level
	RAM	16GB
	HDD	1TB , (SSD optional)
	OS	Win 7.1, 64bit
	Monitor	22', 16:10
Mechanical System	Moving and Inspection Mode	Manual taking board in and out, Y servo motor driving PCB, X servo motor driving camera
	PCB Dimension	20*20mm(Min) ~ 450*350mm(Max), can be customized
	PCB Thickness	0.3 ~ 5.0mm
	PCB Weight	Max: 3KG
	PCB Edge	3mm, can be custom-made base on need
General Parameters	PCB Bending	<5mm or 3% of PCB Diagonal length
	PCB Component Height	Top: 35mm, Bottom: 75mm Adjustable, can be custom-made base on need
	XY Driving System	AC servo motor, precise ball screw
	XY Moving Speed	Max: 830mm/s
	XY Positioning Accuracy	≤8um
	Machine Dimension	L1200 * W900 * H1500 mm
	Power	AC220V, 50/60Hz, 1.2KW
	PCB Height from Ground	820±20mm
Optional	Machine Weight	450KG
	Safety Standard	CE safety standard
	Environment Temperature and Humidity	10 ~ 35°C, 35 ~ 80% RH (non condensing)
	Configuration	Maintenance station, offline programming system, SPC servo, bar code

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