

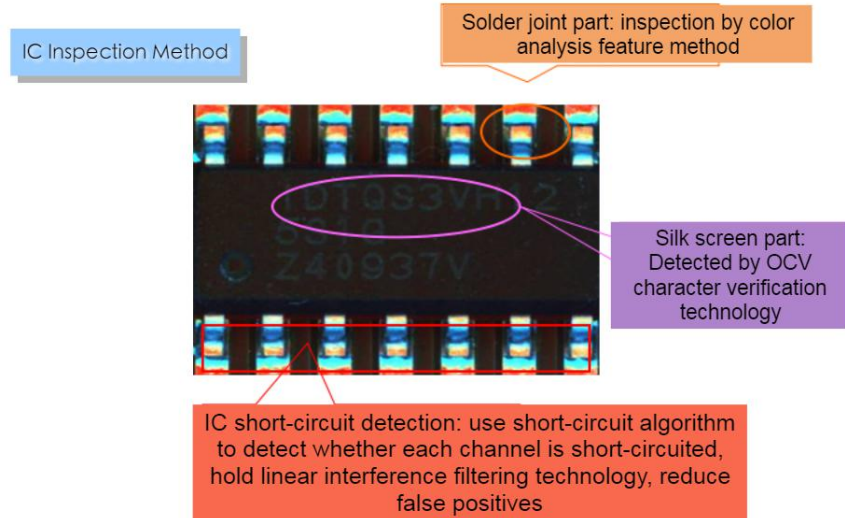
AOI machine



		IN LINE S-H680	OFF LINE S-L680
Machine system	Transmission and detection methods	Auto, L-R/R-L, Stepper motor to transport PCB and widen track, XY servo motor drive camera take picture	Manual, Y servo motor move PCB, X servo motor drive camera take picture
	PCB Size	50*50mm(Min) ~ 400*360mm(Max)	20*20mm(Min) ~ 460*350mm(Max)
	PCB Thickness	0.3 ~ 5.0mm	
	PCB Weight	Max: 3KG	
	PCB Margin	3mm, (can custom made)	
	PCB Curvature	< 5mm or 3% of PCB diagonal length	
	PCB Component H	Top: 35mm, Bottom: 75mm, Adjustable	
	XY Drive System	AC servo motor, precision ground ball screw	
	XY Moving speed	Max: 830mm/s	
	XY positioning accuracy	≈8um	
Parameter	Dimension	L980 * W960 * H1600 mm	L900 * W1100 * H1300 mm
	Power	AC220V/110V, 50/60Hz, 1.5KW	AC220V, 50/60Hz, 1.2KW
	PCB Conveyor Height	900±20mm	820±20mm
	Weight	600KG	360KG
	Communication Plug	Smema	--
	Air Supply	0.5MPa, (Optional power distribution control)	No use
	Certification	Meet CE safety standards	
	Ambient temperature and humidity	10 ~ 35°C, 35 ~ 80% RH (No condensation)	

50mm X 50mm < **82mm X 120mm** < 400mm X 360mm
PCB size is OK.

AOI system



		ON LINE S-AO600C	OFF LINE S-AO680C
Detection application	Applicable process	Solder paste before and after SMT reflow, before and after DIP wave soldering	
	Programming mode	Manuor ,auto written, CAD data import automatic corresponding component library	
	Detection type	Solder paste printing: presence, offset, less tin, more tin, open circuit, even tin, pollution, scratches, etc. Defects in parts: missing parts, multiple pieces, offsets, skews, tombstones, sideways, flips, wrong parts, breakage, reverse, etc. Solder joint defects: more tin, solder, tin, solder balls, glue, pins not exposed, copper foil contamination.	
	Calculation method	Color calculation, color extraction, grayscale calculation, image contrast, etc.	
	Detection mode	Optimized inspection technology covering the entire board, jigsaw and multi-mark, including Bad mark function	
	SPC Statistical function	Record test data and perform statistics and analysis throughout, and view production status and quality analysis in any area	
	Component angle	Support 0~359° rotation, minimum 1° angular distance	
Optical configuration	Mini Component	15um/Pixel: 01005 chip, 0.3 pitch IC	
	Camera	Full color high speed industrial digital camera	
	Lens resolution	10um/15um/18um/20um/25um	
Computer	Light source	Ring stereo multi-channel color light, depending on application selection RGB/RGBW/RGBR/RWBR	
	CPU	Intel core	
	VGA	NVIDIA 1GB+	
	RAM	4GB	
	HDD	500GB+	
	OS	Win XP 32bit	
Monitor	22 inches(Top door), 16:10	22 inches, 16:10	

Resistors in size 0402 and fine pitches are no problem.

Final AOI Program



Conveyor: Transfer boards from the previous process.

AOI: Check PCBs.

Horizontally NG/OK Machine: Separate Good PCBs from Defective PCBs.



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Training**
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