Online 2D SMT AOI AIS40X Series

- One-click programming for higher efficiency
- ✓ Low false positive rate by AI method
- Multi-apply to benefit different assessment



CORE FUNCTIONS

AI intelligent programming

Automatically select solder joints and set parameters without importing CAD, Gerber and other files

Multi-function

Multi-purpose, inspect component defects of SMD, THT , solder joint, etc

Online/offline programming

Online programming to save line down time

Barcode reading

Auto reading of codes (such as code 128, QR codes, Data matrix), original board data is traceable

Support Mixed model and panel inspection

Auto recognize mixed model and panel inspection by AI positioning algorithm

Centralized management by remote control

Centralized management of multiple production lines, remote control to save maintenance costs

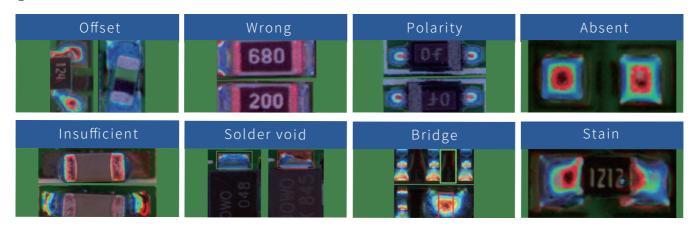
AI model training

Model self-training for special components, reduce false positive rate

SPC data analysis

Real-time data recording and analysis, providing evidence for process improvement, and real-time trace data

| Detectabledefects



| Specifications

Category	Item	AIS401	AIS 400-D
PCBA	Size	50*50mm~510*460mm (Large board mode: Left to right: max730*460mm Right to left: max640*460mm)	50*50mm~510*610mm (single rail operation) 50*50mm~510*330mm (Dual rail operation)
	Thickness	0.5mm-6mm	
	Height of elements	Top:25mm, Bottom: 80mm	
	Processing edge	3mm	
Optical specification	Camera	12MP, color	
	Light source	RGB + W four color integral	
	FOV	15um@45*45mm, 10um@40*30mm	15um@60*45mm
	Resolution	15um (Standard) ,10um	15um
Inspection-related	Components	Absent, Reversed, Mis-alignment, Broken, Extra, Foreign matter, Stained, etc.	
	Solder	Insufficient solder, excessive solder, bridging, pseudo solder etc.	
	Other function	Bar code Recognition / QR code Recognition/ OCR	
	Mixing boards inspection	Support calling program automatically	
	Algorithm	CNN,Color contrast,Outline recognition,Offset inspecti	on,Template matching,Character comparison,OCR,et
	Speed	0.23sec/FOV	
Software	Operating system	Ubuntu 18.04 LTS 64bit	
	Function	Remote control, remote assistance, CAD file import and user-defined model training	
	Communication method	Standard SMEMA interface	
	Data output	Autogenerated statistic analysis SPC	
	Special function	Automatic search of elements and quick programming	
Hardware	PC	CPU: intel i5 Display card: NVIDIA GTX1050Ti Memory: 32G DDR, 240G SSD+2T Mechanical Hard Disk Network: 1000M Wired Network Card	
	Display	23.8 inch FHD display	
	Motion mechanism	High precision lead screw + servo motor	
	Rail width control	Manual/auto	
Appearance /electric	Dimention and weight	(L*H*W) 1015*1539*1086mm, net weight:750Kg	(L*H*W) 1015*1539*1370mm, net weight:790Kg
	Power supply and power	AC 220V, rated power 380W	
	Air source	0.4-0.6Mpa	
	Work environment	Temperature: 10~45°C, Humidity: 30~85%RH	