Online 3D SPI
AIS630B

Application | behind solder printer

✓ High-precision 3D imaging ✓ Simple and efficient programming ✓ Data visual manage

CORE TECHNOLOGY

Multi-directional structured light imaging technology

Minimize shadow problems, truly restore defects, improve inspection accuracy, reduce false positive rate

Minimalist programming

Intelligent identify of solder area, support method, no GERBER programming

High-precision phase height mapping calibration algorithm

Sine grating projection, multiple sampling at different phases, enhance data reliability and ensure measurement accuracy

Dynamic adaptive datum algorithm

Little imaging distortion with telecentric lens, dynamic adaptive reference plane, static compensation to solve bending of FPC
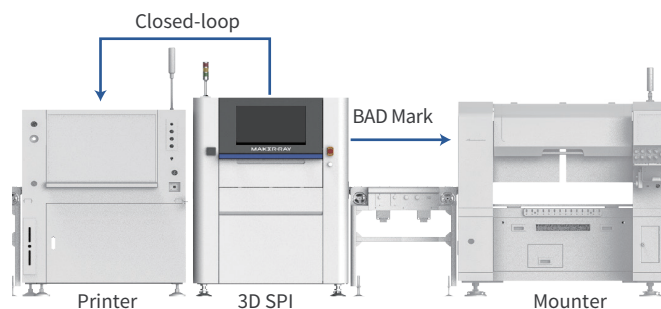
High-speed camera, high-resolution projection

Adopt 180FPS high-speed camera, 1080P high-resolution projection, improve inspection speed and accuracy

RGBR four-channel light source

Help to enhance the positioning accuracy of MARK point and restore image.Combined with DL algorithm,inspection accuracy is improved by avoiding the interference of silk screen
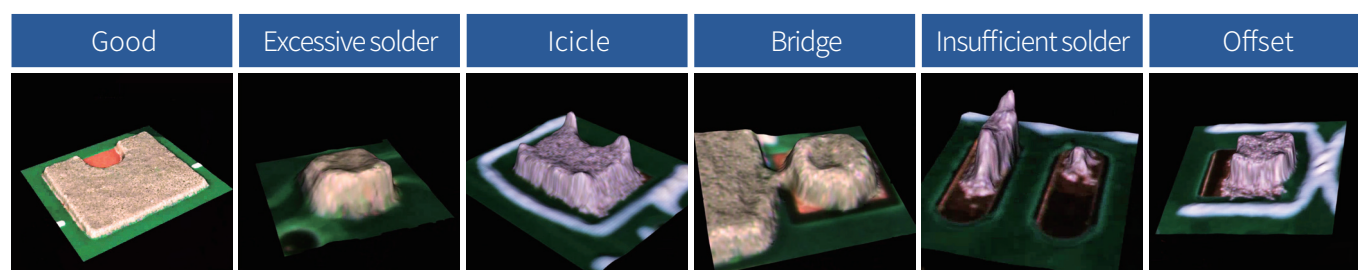
Special features

code tracking system

Closed-loop

BAD Mark

Printer　　　　3D SPI　　　　Mounter

| Red glue inspection | NG board information sharing | Closed-loop control of printer | 3-location combination | SPC data analysis |

Detectable defects

| Good | Excessive solder | Icicle | Bridge | Insufficient solder | Offset |

Specifications

Category	Item	AIS630B
PCBA	Size	50*50mm~510*460mm（Large board mode：Max770*460mm)
	Thickness	0.5mm-6mm
	Height of elements	Top:25mm, Bottom: 50mm
	Processing edge	3mm
Optical specification	Camera	4MP，color
	Light source	RGB + W light source+ 1 projector
	Resolution & FOV	15um@30*30mm
Inspection-related	Solder	Insufficient,Excessive,Bridge, Height,Icicle,shape,Solder void,etc.
	Other function	Bar code Recognition / QR code Recognition/ OCR
	Mixing boards inspection	Yes,Support calling program automatically
	Algorithm	CNN, color contrast, outline recognition, image contrast,etc.
	Speed	0.33sec/FOV
Software	Operating system	Ubuntu 18.04 LTS 64bit
	Function	Remote control, remote assistance,Gerbe file import and user-defined model training
	Communication method	Standard SMEMA interface
	Data output	Autogenerated statistic analysis SPC
	Special function	Automatic search of pad and quick programming
Hardware	PC	CPU: intel i7 Display card: Gigabyte RTX2060 8G display Memory: 64G DDR, 240G SSD+2T Mechanical Hard Disk Network: 1000M Wired Network Card
	Display	23.8 inch FHD display
Appearance /electric	Dimention and weight	（L*H*W）1114*1595*1280，net weight:765Kg
	Power and air supply	AC 220V, rated power 570W，0.4-0.6Mpa
	Work environment	Temperature：10~45℃, Humidity: 30~85%RH

*Specifications are subject to change without notice.