

Powerful 2D Pre-reflow AOI Solution



High-throughput 2D AOI technology

Powerful offline programming & real-time debugging functions

High-precision bending correction

Intelligent process control tools

With AI functions to reduce misjudgment & improve detection capability

2D AOI

* Accurate positioning method

Benchmark point positioning + pad positioning + main body positioning.

* Rapid response to mass production on the production line

Quick programming achieved through CAD importation of associated component library data.

* Powerful offline programming and real-time debugging functions

Debugging can be done without stopping the production line, without affecting production efficiency.

* Virtual soldering inspection

Various combinations can be selected to ensure complete detection of virtual soldering.

* High-precision bending correction

Unique correction method for board bending.

* Can be combined with AI functions to reduce misjudgment and improve detection capability

Utilize advanced AI technology to improve the pass rate.



偏立

Billboard



短路

Bridge



多件

Extra part



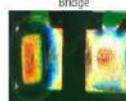
多锡

Excess solder



空焊

Empty solder



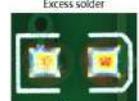
立碑

Tombstone



损坏

Damaged



缺件

Missing part



偏移

Shift



翻件

Upside down



少锡

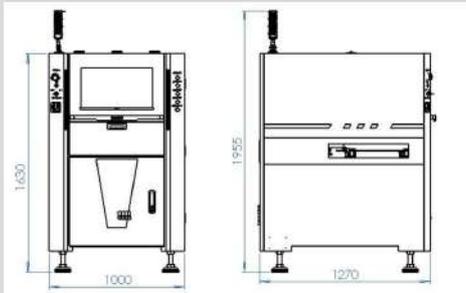
Low solder



异物

Foreigner material

Technical Specifications



Dimensions: 1000mm (L) × ≤1270 (W) × ≤1630mm (H)

Weight: Around 1000 kg

Inspection Item	SMT components
Inspection Defects	Missing components, misalignment, polarity, lifted leads, sideward, tombstone effect, solder joint defects, solder balls, contamination, foreign objects, and scratches.
Camera	12MP/25MP industrial camera (Optional)
Resolution	5μm/10μm/15μm (Optional)
Lighting	RGB LED multi-angle light source
Inspection Speed	0.3S/FOV
PCB Weight	< 4.0kg (with components on board)
PCB Size	50*50~510*480mm
PCB Thickness	Thickness: 0.4-6mm
Edge Clearance	3mm
Upper/Lower Transport Clearance	45mm
Board Bending Correction	±3mm
Transport Height	900±50mm
Transport Method	Conveyor Belt
PCB Fixation	Fixed by track rail
Track Width Adjustment	Automatic adjustment
Arrival Detection Mode	Sensor Detection
Industrial Computer	Intel I7-10700 processor\2*16GB\1*1TB SSD
Gigabit Network Card	Intel® Ethernet Controller I210 \ I219-V
Graphics Card	Intel® UHD Graphics 630
Operation System	WIN10 64bit
Operation Software	ST AOI
Interface	MES
Operation Method	Keyboard, Mouse, Buttons
Language	Chinese, English