ASR600I

POST WAVE INLINE AOI

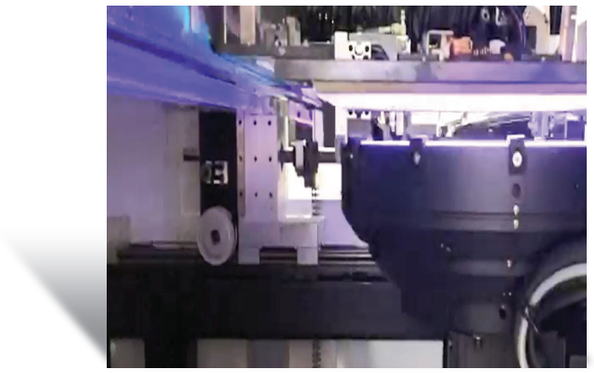
The **ALeader ASR600I AOI** system is specifically designed to inspect assembled PCB's after the wave soldering process.

Equipped with a unique optical head located under the conveyor, the **ASR600I** performs an optical inspection of the bottom side of the PCB with the high speed, accuracy and efficiency.

Using state-of-the-art i3D Technology and supported by powerful algorithms, the system is easy to program and delivers unprecedented high speed performance giving no escapes and extremely low FA rate on the most complicated and challenging of PCB assemblies.

Specially designed conveyor allows handling both PCB's and heavy jigs (up to 15 kg).

System offers support for offline programming and debugging. Integrated barcode reading capability and various traceability options, software process control are available. Repair station delivers a clear image of the defect and a good sample allowing fast verification and preventing operator mistakes.



ASR600I– the Best Choice for Post Wave Optical Inspection

- Special design for post wave application
- Extremely low FA rate, high FPY and no escapes
- 100% inspection coverage
- Fast and accurate inspection
- Fast programming, intuitive user interface
- Effective quality verification
- Process control for defect prevention
- High MTBF, low maintenance cost

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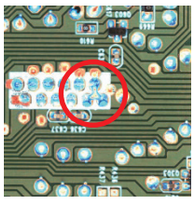
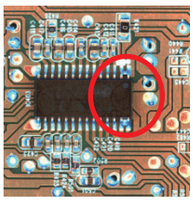
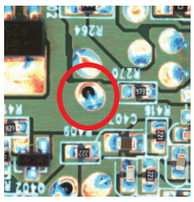
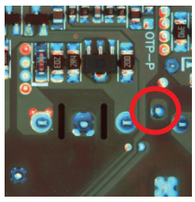
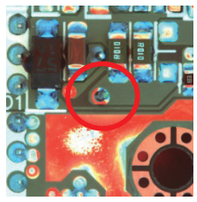
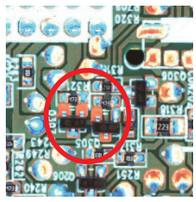

Socket Short


IC Short

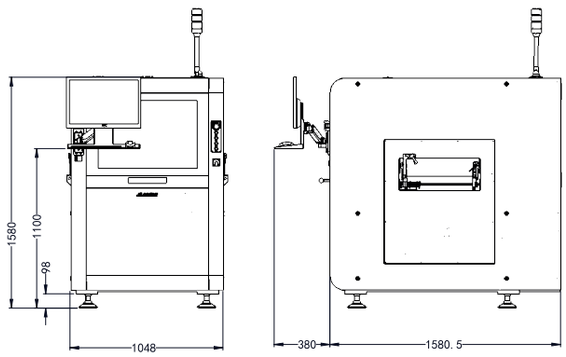

Poor Hole Fill


Missing Pin


Insufficient


Transistor with insufficient Solder

Functional specification	
Inspection method	i3D technology
Camera	4M pixel high speed camera
Lighting system	Extra bright RRGB coaxial ring tower LED light (Color light)
Program creation	CAD file import, central library, part number links, auto programming
Applications	Post wave soldering inspection
Operation system	Windows 7 Professional
Inspection Board specification	
PCB type	All colors and all pad finishes
PCB size range	50mm x 50mm (min) ~ 510mm x 460mm (max)
PCB thickness range	0.5mm to 4.5mm
Clamping system edge clearance	Top 3.5mm, Bottom 3.5mm
PCB weight	Up to 15kg
Underside/Topside clearance	40mm/110mm
Min Component and Pitch	0402 chip, 0.5 IC pitch
Inspection performance	
Resolution/ranges/speed	25µ/pixel, FOV 51.20mm x 51.20mm, Test speed <0.25 sec/FOV
Inspection coverage	TH – presence, solder shorts, solder inspection: Pin/Blow hole, cracked joint, incomplete joint, poor hole fill, sunken joint, etc. SMT - missing, misalignment, billboard, up-side-down, tombstone, damaged, wrong component, lifted leads, open, insufficient/excessive solder, shorts, polarity, solder balls, etc...
Component color	Component colour and transparency doesn't affect performance, but used for wrong part inspection
OCV/OCR	Standard on each machine
Features and options	
Special features	Supports auto change program, multi boards (include bad mark) and multi programs inspection modes
Barcode system	Auto read barcode with camera - 1D and 2D. External barcode scanner for top side barcode (option)
Server mode	Central server multiple machines data handling
Remote control	Remote control through TCP/IP for verification, system operation and program adjustment
Additional Options	SPC, repair station, Offline program, External barcode scanner
Hardware	
Conveyor	Automatic compensation to avoid PCB distortion, auto-load and unload, roller conveying, automatic width adjustment
Conveyor direction	Defined on machine order
Board In/Out time	3 sec
X/Y driver	Screw and AC servo driver, accuracy <10µ; PCB fix, camera moves X/Y
Display	22 inch TFT LCD
Power Supply	AC230V 50/60Hz <1.5KVA
Compressed air	0.4~0.6MPA
Equipment communication	SMEMA
Operational conditions	10~35°C, 35~80% RH (no dew)
Dimensions and Weight	
Weight	Approx. 700 kg
Dimensions	1048x1581x1580mm (LxWxH) (not including signal light tower height)
Conveyor height	850mm to 950mm



Above specifications are subject to change without notice. Images used in the brochure are for illustrative purposes only

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