ALeader

The Lowest Cost of Ownership any AOI can offer

NEW!

BEST PRICE PERFORMANCE!


ALD700


ALD520


ALD620

For Post- Print, Pre- Reflow, Mixed- Mode and Post- Reflow Applications.

01005 APPROVED



SMT VISION AWARD for



- 2006
- 2007-2008
- 2008-2009

Pb lead-free CE

Manufactured by: **ALeader Vision Technology CO.LTD.,CHINA.**

Worldwide distribution and support: **ASI Technologies | www.aoi-asi.com**

ASI Technologies





The Technology

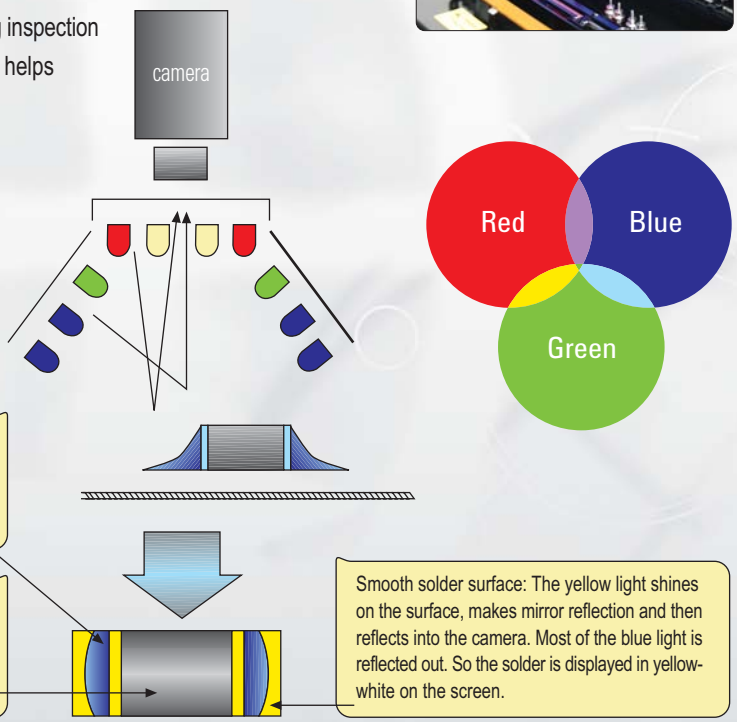
Camera and Illumination



The Acculite™ Lighting Color Technology uses multiple angles of light to determine different characteristics of each component and lead inspected all from a single image.

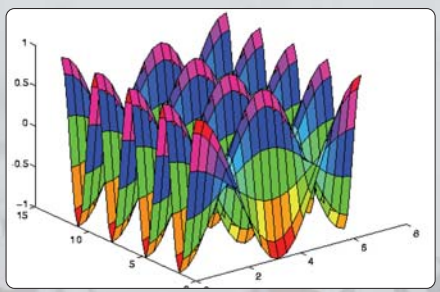
The Acculite™ Technology, combined with the high resolution high speed intellectualized 3CCD digital color camera, allows faster inspection cycle times while increasing inspection capabilities and gives high test depth and simple programming. Additionally, it helps broaden the defect coverage and lowers false rejects.

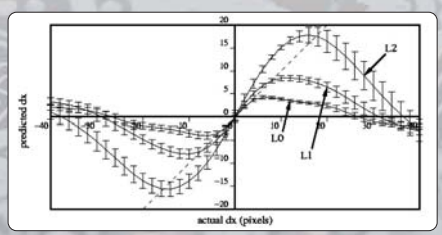
Acculite™ - The RGBB (4 rings) illumination system inspection with high intensity color ring LED lights.



Statistic Modeling Technology
(patented pending)

Whereas other AOI machines utilize old fashioned, hard to program and unreliable pixel comparison algorithems, **ALeader** does things differently. Only one master picture is created for each frame, containing all the already studied good images. This enables the software to predict which variables may change, therefore making it very easy to program and debug, and resulting in minimum False Alarms or Escapes in the industry.

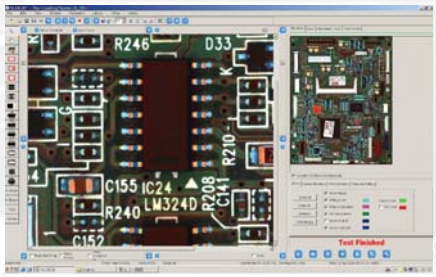








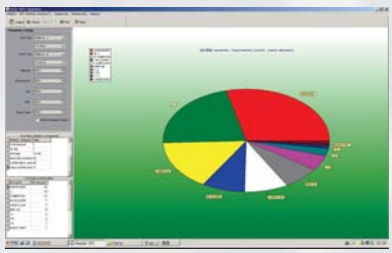
Software and Interface



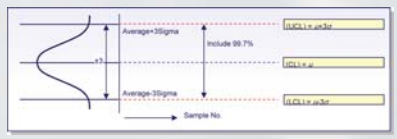
All types of machines (ALD520, 620 and 700) use the same standardized graphical user interface in Windows XP.

- ✓ Intuitive operator interface
- ✓ Simple to use software tools
- ✓ Easy Programming
- ✓ Short time programming using public library and components templates for automatic programming
- ✓ Easy upload of the CAD data

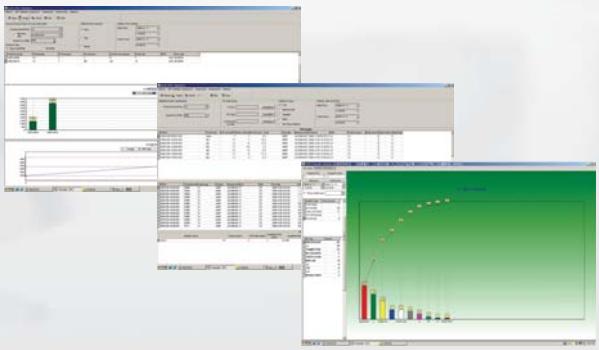
Statistical Process Control (SPC)



The system provides a process control function to capture changes in processing and send warnings in real time.



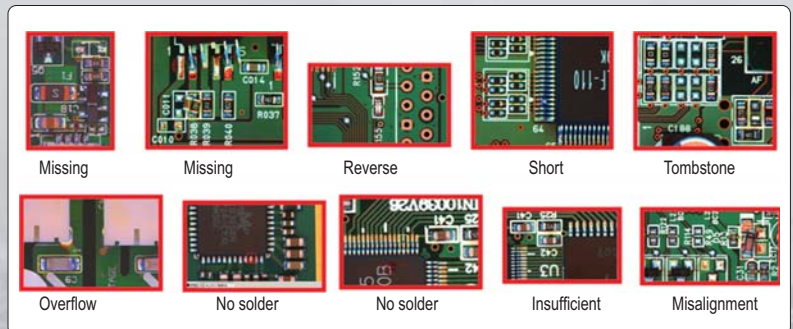
The process capability index (Cp/Cpk) is calculated based on the inspection standard value that is set when teaching.
If the process capability index is below the control limit value, the system sends a warning.



High Defect Coverage, Unparalleled Defect Detection

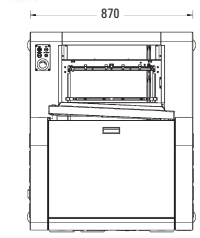
100% inspection: Missing, Shift/Skew, Misalignment, Tombstone, Reverse, Polarity, Wrong Component, Bridge, Dirt/Dust, No Solder, Short Solder, Cold Solder, Lifted Lead, OCV, After Printing Process: No/Excess Solder Paste, Blur, Scratch, Short, Shift, Bridge

Inspection faults - few examples

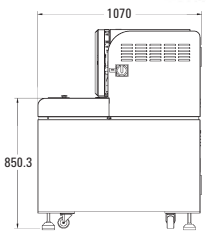


- ✓ OCV - Optical Character Verification
- ✓ Bad Mark
- ✓ Automatic Optimization of the Test Path
- ✓ Double Side Test in one Program
- ✓ Fast and Easy Tool for Quick Debugging
- ✓ Automatic Barcode Recognition(ALD700, ALD620)
- ✓ Lowest False Failure Rate

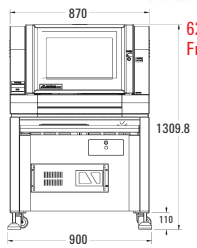
Mechanical system (dimensions in mm)	ALD520	ALD620	ALD700
Board dimensions(mm)-standard	50×50(Min)~430x330(Max)	50×50 (Min)~430x330 (Max)	50×50 (Min)~510×460 (Max)
L Size	510x460 (Max)	510x460 (Max)	bigger size available upon request
XL Size	Bigger size available upon customer request		
Board thickness (min. to max.)	0.3 to 5 mm (bigger size available upon request)		
Maximum board weight	3 kg [6.6 lb]		
Conveyor Height	850 -920mm	850 -920mm	890 -1020mm
PCB Height	Top:30mm Bottom:50mm	Top:30mm Bottom:50mm	Top:30mm Bottom:65mm
Clamping system edge	3		
Conveyor	Automatic clamp, thimble support to avoid distortion		
Board positioning	Board and panel fiducials		
XY Driver	Screw and AC servo driver, accuracy < 10μm ; Camera moves on X axis		
Camera			
High speed 3CCD digital color camera (ALD520)	High speed intellectualized 3CCD digital color camera		
Standard	20 μm/Pxiel		
Plus	15 μm/Pixel		
Pro	10 μm/pixel		
Camera Field Of View			
Standard (20 μm)	25.6mmx20.48mm	27.84mmx20.8mm	20.16mmx20.36mm
Plus (15 μm)	19.2mmx15.36mm	20.88mmx15.6mm	15.12mmx15.27mm
Pro (10 μm)	12.8mmx10.24mm	13.92mmx10.4mm	10.08mmx10.18mm
Speed			
Standard (20 μm)	280ms/FOV	210ms/FOV	200ms/FOV
Plus (15 μm)	260ms/FOV	190ms/FOV	180ms/FOV
Pro (10 μm)	240ms/FOV	170ms/FOV	160ms/FOV
Lighting system			
Lighting colors	Acculite™ (red, green, blue, blue/Red)		
Lighting types	Coaxial		
Minimum Component & Pitch			
20μm : 0201chip & 0.3pitch IC or 10μm:01005chip & 0.25pitch IC			
Display and Output			
	22 inch TFT LCD	22 inch TFT LCD	19 inch TFT LCD
	OK/NG signal	OK/NG signal	OK/NG signal
Barcode System			
Manual Scanner Support (ALD520)	Automatic on-Camera Barcode recognition (one-dimension or two dimensions), Multi-Mark function(Including Bad Mark)		
Software			
Operating system	WINDOWS XP		
Vision integrated software suite	Standard		
Programming	CAD-driven, Library-based Programming Software		
Off-line programming software	Optional		
Off-line repair software	Optional		
SPC and process control	Statistic analysis of all test data, production check and quality analysis anywhere. Outputs: Excel, Txt file		
Special Function			
Double-side Support test (Automatic or manual procedure switching) ; φ Diversion: 0°-359° component placement (Unit: 1°)			
Communication			
Upstream / downstream	SMEMA		
Network	TCP/IP, RJ45 plug		
Facilities			
Humidity	35~80% RH		
Temperature Range	10~35℃		
Electrical supply	AC230V 50/60 Hz 1.8KVA	AC230V 50/60 Hz 1.8KVA	AC230V 50/60 Hz 3.3KVA
Machine dimensions L x W x H	900×1070×1310mm	900×1070×1310mm	1092×1070×1484mm
Weight	400Kg	400kg	600Kg



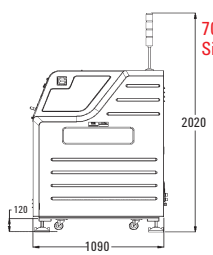
620/520 Vertical



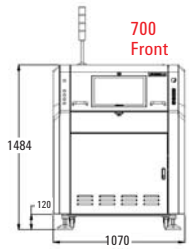
620/520 Side



620/520 Front



700 Side



700 Front

Note: Specifications subject to change without notice.

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