

大器新成 境界心生



FAI-650

SMT Intelligent First Article
Inspection System

New methods for FAI

In today's SMT electronics factories, multiple machine types, small volume of production, and frequent line changes make the task of first article inspection increasingly heavy. The traditional SMT inspection method not only wastes manpower and is inefficient, making it difficult to guarantee quality. In response, Bluiris has created the SMT Intelligent First Article Inspection System , which has the following advantages:



Save 50% of the manpower

Traditional methods usually requires two operators, one person can easily handle the work with the FAI-650.



Save 50% of the inspection time

Proved by hundreds of clients, using the FAI-650 with one operator can save the first article inspection time by 50%-80%.



Effectively improve quality

Using the FAI-650 , eliminates human error. No miss on inspection, no misjudgment, and data can trace anytime.



Automatically generate reports

System can automatically generate reports in multiple formats. The report will be the true reflection of the test, and it can be saved or send to the client.



Easy to use

Friendly UI, automatically read values, automatically determination, notification tone is available. Operators can use within 3 days.



Protect clients' investment

The product will be updated irregularly, improve performance and add a new feature(s), protect clients' investment.

■ Automatically generate test program

The system automatically identifies clients' BOM and CAD position files and generates a test program for around 3 minutes, with no need to modify clients' data.

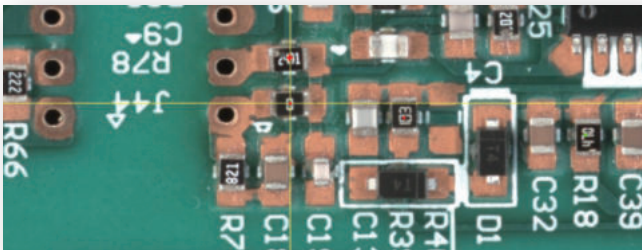
■ Automatically determine the result

The system automatically switches test profiles, reads values, and compares with BOM. Automatically determine PASS or NG.

Component	Description	Part No.	Measured Value	Result	Remarks
(15,100,71,425)	0805 1 0/704Qx1%	280-051-0701		PASS	
(78,700,69,375)	0805 1 0/0x1%	280-055-0000		PASS	
(97,275,74,974)	0805 1 0/0x1%	280-055-0000		NG	LCR failed
(84,000,70,175)	0805 1 0/0x1%	280-055-0000		NG	LCR failed
(103,105,77,394)	0805 1 0/0x1%	280-055-0000		PASS	
(94,600,70,575)	0805 1 0/0x1%	280-055-0000		PASS	
(100,700,70,575)	0805 1 0/0x1%	280-055-0000		PASS	

■ Detailed Search

Report data can be viewed and sorted in a number of different ways. For example, components can be sorted according to whether they have passed or failed a test, or by their part numbers.

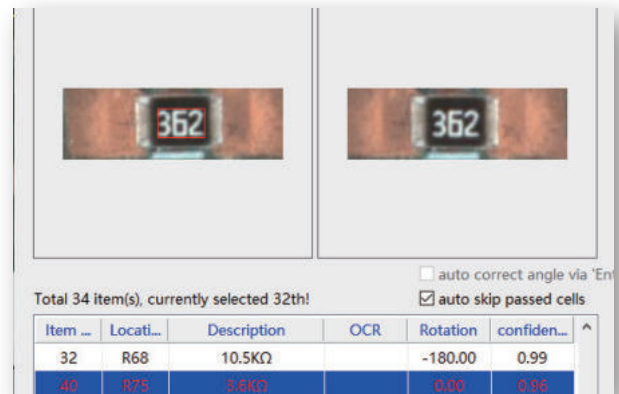


Item No.	Location	Component	Description	Part No.	Measured Value	Result	Remarks
146	Q12	(18,100,06,175)	55739A/507-250NP	517-000-200A		non-detected	
147	U1	(84,000,70,175)	0805051 0/0-1%	280-055-0000		non-detected	
148	T21	(20,000,70,085)	EMPTY			non-detected	
149	U11	(88,600,06,480)	EMPTY			non-detected	

Function Introduction

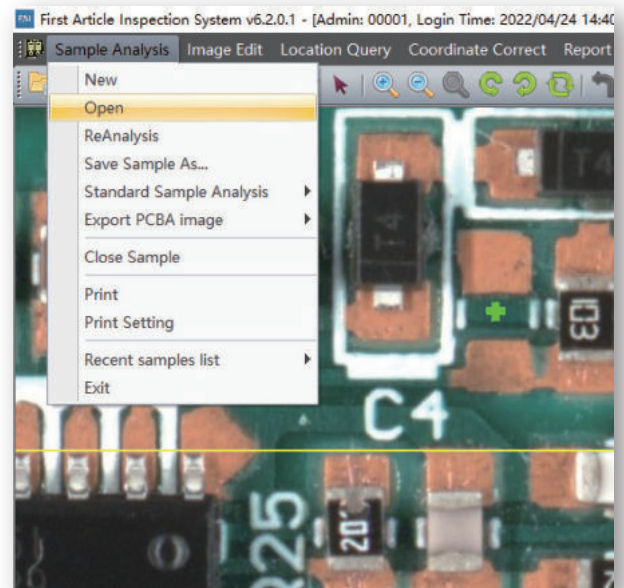
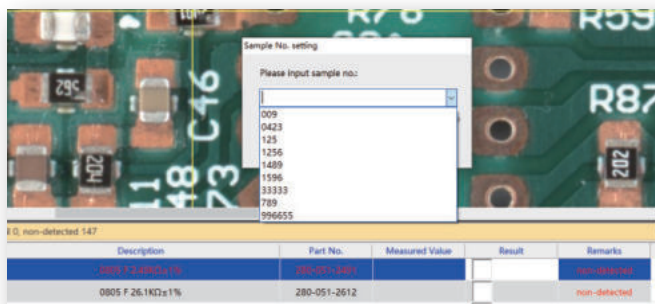
■ Auto optical inspection and Golden Board

For components with silk screening, the FAI-650 system checks all components in under a minute. A Golden Board can serve as a test reference.



■ Sample functionality

Save of standard sample. No need to repeatedly import data, the system will directly pull out the same data for the use of testing the same type of model.



■ Report

Each report includes the company's name, test time, operator's name, model number, total number of components, how many components passed and failed. The measured values of all components and their nominal values are also shown. Reports can be viewed, printed, saved or emailed to customers.



Comparison of traditional way and FAI-650



VS



- Automatic measurement judgment
- Improve detection speed
- Reduce labor costs
- Standardize the process
- With traceability function
- improve product quality

Way	FAI-650	Traditional way	Remark
Operator(s)	Only 1	Usually 2	FAI-650 takes only half the manpower of the traditional way.
Inspection speed	Fast	Slow	FAI-650 can improve the detection speed by more than 50%.
Quality insurance	High reliability	Low reliability	FAI-650 system displays inspection progress in realtime, avoid missing inspection; create a convenient environment for determining over the patch, wrong material, polarity, and direction; traditional way only rely on humans, easy to make mistakes.
Visual comparison	Easy, accurate	Hard, easy to make mistakes	FAI-650 enlarge the real object dozens of times through the system scanning image, with high definition and automatic recognition and positioning; In the traditional way, operators need to check BOM, component location drawing and small SMD components on the first piece board, which is easy to visual fatigue and make mistakes
Determine methods	Auto	Manual	FAI-650 automatically save the measured value and determine the result to truly reflect the measured value; The traditional method is confirmed by manual records, which has risks.
Management difficulty	Easy	Hard	FAI-650 computer stores data and programs, which can be easily called when needed; The traditional method needs to manage the paper BOM file and component bitmap, which is troublesome and takes up space.
Traceability	Easy	Hard	Using FAI-650, the operator only needs to register the job number. The wrong component can be traced.
Inspection report	Automatically generate	Manually made	Manual operation is cumbersome, time-consuming and laborious.

Specifications

Basic Info.

Product's name	FAI-650 SMT First Article Inspection System
Color	Grey/White
Size	1310(L)x820(W)x955(H) mm /1328(L)x1017(W)x1050(H) mm
Weight	170 KG /200KG
Environment	Temperature10 ~ 35℃ ; Humidity20% ~ 80%

Display parameters

Brand	Philips
Size	21.5 inch

Host parameters

Brand	Advantech
System	WIN10
CPU	I7
Memory	16G
Hard disk	1T

LCR parameter

Model	BLUIRIS 6250T
Power	AC 220V (± 10%) , 50HZ
Test signal's frequency	20Hz ~ 500kHz
R/C smallest measurement frequency	R 0.1Ω ; C 0.1pf
Test accuracy	0.05%
Measurement display range	L 0.01nH ~ 9.9999kH C 0.0001pF ~ 9.9999F R 0.1mΩ ~ 99.999MΩ
Test communication	RS-232C

Scan parameter

Power	AC 220V (± 10%) , 50Hz , 55W
Parts for scanning	CCD
Light source for scanning	LED
Scanning Range	550mm x 600mm、 up: 26mm,lower: 30mm
Optical Resolution	600 ~ 2400 dpi

Certificates and patent



National Certification of New
Hi-tech Enterprises



ISO9001
quality management system



BCTC TEST



Intellectual property
management system



Strip splicer



Electronic
component testing



Automatic value
measuring machine



SMT Device
detection system



Value measuring machine
and measuring mechanism



Testing organization



Detection drawer

For more certificates and patents,
please consult the staff.

Some partners

					
BYD	Desaysv	YUTONG	CATL	Panasonic	Valeo
					
ETRON	HEBODA	JEBSEE	ADAYO	ROAD ROVER	Coagent
					
ALPINE	KANGNI	HEG	DBG	LONGCHEER	Huabel
					
VIVO	OPPO	YUDAFU	Flex	CIG	ACT
					
H3C	OPLINK	CELESTICA	T&W	TT Electronics	Hytera
					
EDIFIER	AUX	ARK	LIGHTION	LITEON	ACBEL
					
Huntkey	TenPao	MEGMEET	INVENTRONICS	LZY	Behringer
					
Midea	Hisense	KAIFA	Intretech	FOXCONN	Skyworth



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