

### I.C.T SMT Online First Article Inspection Machine

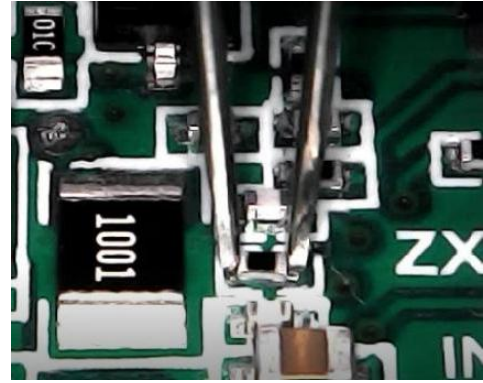
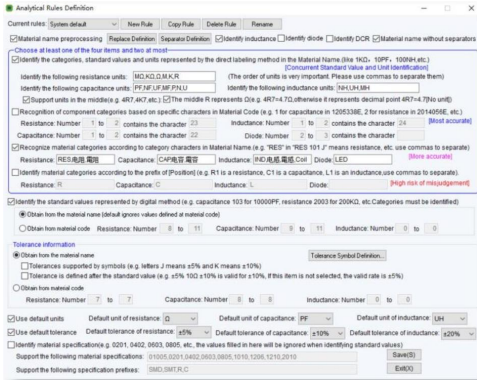


#### Introduce:

I.C.T-FAI1095 is an advanced PCBA full-automatic flying probe test first article tester. It subverts the traditional manual material clamping test. It adopts the flying probe detection method, combined with software to realize fully automatic material clamping detection components, and automatically enters and exits the board. The efficiency is 5 times that of the traditional FAI first article detector, which reduces the time of production line changeover and improves the utilization rate of the production line.

#### Features:

1. The machine replaces the labor, and automatically detects the LCR. The detection process does not require manual participation, saving manpower. Increase the speed by at least 3-5 times, with an average of 1 second per component. The more components on the board, the more obvious the advantage.
2. Using advanced artificial intelligence system, it can identify wrong/repeated BOM consumption, multiple pieces, small pieces, reverse, wrong materials, etc., and the detection data will be displayed synchronously in real time, effectively preventing human errors and omissions.
3. The test process is fully automatic test judgment, no need to manually insert materials, no need to switch ranges, no need to manually compare the measured values, the system automatically judges PASS and FAIL.
4. The equipment can obtain PCBA high-definition graphics, which can magnify the real object dozens of times. There are silk screen and directional components. The system automatically performs optical comparison detection without manual participation.
5. The real-time record of the test process cannot be modified, and the detection scene can be restored, which is easy to trace; and it can support user permission definition to prevent misoperation.
6. It can automatically generate a complete test report, and the test report can be selected and output in Excel and PDF formats, and is equipped with component images and PCBA related information.
7. Compatible with various formats of BOM.
8. Sampling inspection or refueling sampling inspection, according to the station location sampling inspection function, can conduct random inspection according to the station location table, BOM table, or midway refueling sampling inspection.
9. MES docking function, the report can be docked with the customer's MES system, just upload it on the computer.
10. Auxiliary function of drawing design, the system can color and mark the drawing, and the marking content includes tag number, standard value, precision and specification.
11. Power-off protection function.



**BOM Form Compatible With Various Formats**

The software system independently developed by I.C.T is of powerful and flexible BOM form analysis function and can define different analysis rules according to the BOM form of different customers to be compatible with various BOM forms.

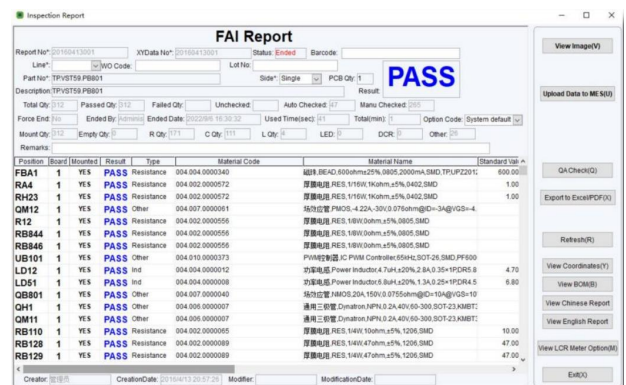
**Fully automatic flying probe detection**

The software automatically identifies BOM and coordinate information, automatically adjusts the size and angle of components, and automatically measures through flying probes, eliminating the need for manual measurement in the entire process.

位置号	结果	类型	检测值	标准值	单位	最大值	最小值	物料编号
R1242	PASS	R	3.6084	3.6000	KΩ	3.7800	3.4200	R0402 3.6K
R1238	PASS	R	10.0714	10.0000	KΩ	10.5000	9.5000	R0402 10K
R1241	PASS	R	9.9498	10.0000	KΩ	10.5000	9.5000	R0402 10K
R1247	PASS	R	9.9451	10.0000	KΩ	10.5000	9.5000	R0402 10K
VP2	PASS	0						U WQFN-32L 5x5 R
RP2	PASS	R	10.0368	10.0000	KΩ	10.5000	9.5000	R0402 10K
R1237	PASS	R	99.5511	100.0000	Ω	105.0000	95.0000	R0402 100R 5%
R1235	PASS	R	9.9540	10.0000	KΩ	10.5000	9.5000	R0402 10K
C1013	PASS	C	122.7029	120.0000	PF	126.0000	114.0000	C0402 120PF/50V 5%
C1012	PASS	C	56.2926	56.0000	PF	58.8000	53.2000	C0402 56PF/50V 5%
R1234	PASS	R	26.8927	27.0000	KΩ	28.3500	25.6500	R0402 27K

**Automatically Determining The Detection Result**

System receives from data of digital bridge and automatically judges PASS(correct) or FALL(wrong), and the artificial judgment of PASS via computer can be conducted. The detection result is of real-time display, with missing inspection completely eradicated.



**ERP And MES Docking Function**

The report can be connected to the customer's ERS\MES system, uploaded through the computer, and the results can be monitored and traced in real time.



**Specification:**

Model	I.C.T-FAI1095
Max PCB Size	M: 350mm*450mm
PCB Height	Up 25mm, Bottom 50mm
Accuracy	0.05%
Measurement Display Range	R: 0.01m ohms ~ 99.9999M ohms L: 0.01nH ~ 9999.9H C: 0.00001pF ~ 9.9999F
Test Frequency	20Hz ~ 300KHz
Average Detection Speed	1 seconds/component
Detect Coverage Type	Data type: wrong BOM usage, repeated positions, missing definition of XY coordinates, multiple definitions; Circuit board: multiple pastes, missing parts, wrong parts, reverse, rollover, offset, rotation, etc.
SPC Process Control	The test data is recorded throughout the process, and reports in Excel and PDF formats can be output, and the test scene can be restored in the later stage to provide traceability basis.
Component Angle	Support 0°, 90°, 180°, 270° components and 45°, 135°, 225° and other oblique parts.
Server Mode	Using a central database, the data of multiple FAIs can be managed in a centralized manner.
Power Supply	AC220V, 50/60Hz, less than 1.5KVA
Dimensions	1085*1122*1638mm
Weight	700KG

\* I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

**Thanks for choosing I.C.T.**  
**I.C.T looks forward to win-win cooperation.**  
**Thank you.**