ScanINSPECT FPT™

"Flying Probe Tester"

FPT I

FPT II & III

FPT IV

WHAT IS ScanINSPECT FPT?

ScanINSPECT FPT is a flying probe electrical tester suitable for fixture-less bare PCBs. It can also be used in combination with a grid tester for fault verification or to test nets exceeding test points of a grid tester.

Software runs on Windows XP. The tester is fast, easy to use, very reliable and easy to maintain.

APPLICATIONS

ScanINSPECT FPT is capable of performing electrical tests on PCBs in many situations such as:

- Prototypes
- Samples
- Small volume production
- Determination of "golden board"
- Combination test with a grid tester
- Fault verification

A PCB is tested against a netlist without the need for fixtures. Hence, test can commence immediately after PCB production.

SIMPLE OPERATION

The ScanINSPECT FPT system can be quickly learned and is simple to operate. Loading of boards is simple. Operators verify faults on or off line. Log files are generated for faults detected during test.

COMPUTER

- Personal Computer
- Windows XP SP2 or Win 7
- Flat Panel Monitor
- Fault Ticket Printer
- Pedestal

SYSTEM COMPONENTS

- X/Y Accuracy Calibration Board
- Capacitance Calibration Board
- Spare Probe Tips
- Frame Kits
- Tooling Kit

(All specifications and designs subject to change without notice.)

Flying Probe Tester Comparison Chart

Specification	ScanINSPECT FPT I	ScanINSPECT FPT II	ScanINSPECT FPT III	ScanINSPECT FPT IV
Max. Test Area	620 x 508 mm (24.4 x 20 in)	544 x 404 mm (21.4 x 15.9 in)		600 x 508 mm (23.6 x 20 in)
Min. Test Area	20 x 20 mm (.79 x .79 in)	50.8 x 50.8 mm (2 x 2 in)		20 x 40 mm (.79in x 1.57 in)
Max. Thickness	6.5 mm (.26 in)			5 mm (.20 in)
Min. Thickness	0.4 mm (16 mil)	0.3 mm (12 mil)		0.2 mm (8 mil)
Thin Board Testing	n/a	Enabled		Enabled (FPC Board OK)
Tension Frame	n/a	Enabled		Enabled
Transmission	Belt , Stepper Motor	Belt, Stepper Motor		Lead Screw - Servo
Resolution x/y	0.02 mm (0.8 mil)	0.01 mm (0.4 mil)		0.005 mm (0.2 mil)
Accuracy	±0.05 mm (2 mil)	±0.02 mm (0.8 mil)		±0.02 mm (0.8 mil)
Min. Pad Size	0.127 mm (5 mil)	0.1 mm (4 mil)		0.1 mm (4 mil)
Min. Pitch	0.203 mm (8 mil)	0.18 mm (7 mil)		0.175 mm (7 mil)
Test Speed	1000 Points/Min.	1200 Points/Min.		3200 Points/Min.
# of Test Probes	2 Front 2 Rear			
Probe Tip Force	50g-100g	25g-50g	20g-30g	5g-10g
Operating System	Windows XP			
Input Data Format	Gerber-274-D Gerber-274-X IPC-D-356A Probot-HLS			
CCD Cameras	none		Visual Aid	Fiducal Finding
Test Voltage	30V-250V			30V- 250V
Test Current	30mA-250mA			30mA-200mA
Continuity Test	3Ω-80Ω	1Ω-150Ω		3Ω-280KΩ
Isolation Test	22MΩ-250MΩ			5MΩ-250MΩ
Printer / Monitor	Ticket Printer / 15" LCD			
Physical Dimensions W x H x D	1370x1650x620mm 54 x 65 x 24 in	1300 x 1750 x 650 mm 51 x 69 x 26 in		1500 x 1800 x 750 mm 593 x 71 x 30 in
Temperature	15C-30C			
Humidity	30%-70% (20C)			
Weight	350 kg (770 lb)	400 kg (880 lb)		800 kg (1760lb)
Electrical Power	220V±5% or 110V±5% /50-60Hz, 600W			220V±5% or 110V±5% / 50-60Hz, 3500W

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