

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 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
- Microsoft Windows XP
- Flat Panel Monitor
- Fault Ticket Printer
- Pedestal

SYSTEM COMPONENTS

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

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

Flying Probe Tester Comparison Chart

Specification	ScanINSPECT FPT I	ScanINSPECT FPT II	ScanINSPEC T 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)		610 x 510 mm (24 x 20 in)
Min. Test Area	20 x 20 mm (.79 x .79 in)		50.8 x 50.8 mm (2 x 2 in)	
Max. Thickness	6.5 mm (.26 in)			
Min. Thickness	0.4 mm (16 mil)	0.3 mm (12 mil)		0.15 mm (6 mil)
Thin Board Testing	n/a	Enabled		Enabled (FPC Board OK)
Tension Frame	n/a	Enabled (mechanical)		Enabled (pneumatic)
Automatic Loading & Unloading	n/a	Enabled		
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)		±0.015 mm (0.6 mil)
Min. Pad Size	0.127 mm (5 mil)	0.1 mm (4 mil)		0.075 mm (3 mil)
Min. Pitch	0.203 mm (8 mil)	0.18 mm (7 mil)		0.127 mm (5 mil)
Test Speed	1000 Points/Min.	1200 Points/Min.		3000 Points/Min.
Number of Test Probes	2 Front 2 Rear			
Probe Tip Force	50g-100g	25g-50g	20g-30g	10g-20g
Operating System	Windows XP			
Input Data Format	Gerber-274-D	Gerber-274-X	IPC-D-356A	Probot-HLS
Universal Tester Verification	n/a		Enabled	
Repair Station	n/a		Enabled	
CCD Cameras	none		1 Front 1 Rear	
Test Voltage	30V-250V			20V- 500V, 1000V(Optional)
Test Current	30mA-250mA			2mA-500mA (Adjustable)
Continuity Test	3Ω-80Ω	1Ω-150Ω		1Ω-10KΩ
Isolation Test	22MΩ-250MΩ			10MΩ-500MΩ
Hiram Testing Scope	0.1pF-10mF			
Printer / Monitor	Ticket Printer / 15" LCD			
Physical Dimensions	1370x1650x620mm 54 x 65 x 24 in W x H x D	1300 x 1750 x 650 mm 51 x 69 x 26 in W x H x D		1600 x 1950 x 800 mm 63 x 77 x 32 in W x H x D
Temperature	15C-30C			
Humidity	30%-70% (20C)			
Weight	350 kg (770 lb)	400 kg (880 lb)		600 kg (1320lb)
Electrical Power	220V±5% or 110V±5% /50-60Hz, 600W			220V±5% or 110V± 5% / 50-60Hz, 1500W



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