Seica
Test Solutions

Standard One of a kind Solutions

TEST PERFORMANCES:

- **In-Circuit test**
- **Functional test**
- **Power on functional test**
- **OTPN** (One Touch Per Net) with Fnode to detect shorts open & Nodal Impedance
- **OPENFIX**
- **On-Board Programming**
- **Boundary Scan**
- **Thermal Test**
- **LED Test**
- **FLYSTRAIN** (Real time)
- **LASER warpage compensation**

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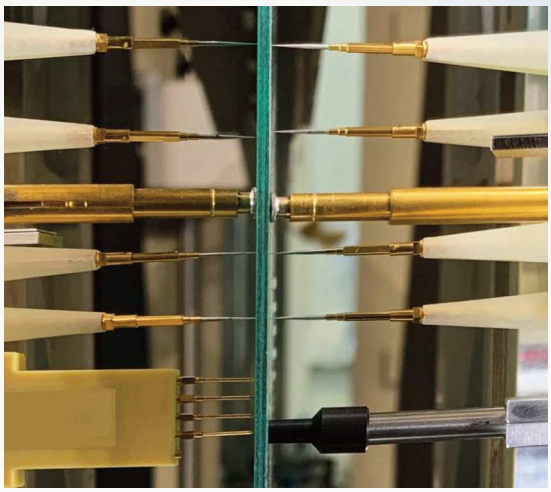

PILOT V8
NEXT

The **PILOT V8** represents an important technological innovation in double-sided flying probe test, overcoming the intrinsic limitations of horizontal systems.
Its vertical architecture is the optimum solution for probing both sides of the UUT simultaneously. This increases test throughput and flexibility while guaranteeing fast, precise, reliable and repeatable probing and full availability of all the mobile resources for testing the UUT.

Seica VIVA NEXT

VIVA NEXT is available in a 64 bit version with a new graphical interface and a guided environment for an easy and quick test program creation.
It is fully integrated with VISA drivers and with third-party test management software.

The PILOT V8 is equipped with several different type of test resources:

- OPENFIX Flying Probes
- Power Flying Probes
- CCD Cameras
- Thermal Scan Sensors
- LASER Sensors
- LED Sensors
- FLYPOD

INDUSTRY 4.0 Ready

IPC CFX Compliant

IPC-HERMES-9852

TECHNICAL TABLE

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PROBES AND CAMERAS

Probes Position - Test Side	Front/Rear
Number of Heads	8 (4 front, 4 rear)
Number of Z motors	12 (6 front, 6 rear)
Maximum Number of Resources:	**35:**
Electrical Probes	*22*
Power Probes (2A each)	*8 (4 front, 4 rear)*
FLYPOD	*1*
OPENFIX Probes	*2 (1 front, 1 rear)*
Stampers	*1 (front/rear)*
LASER Sensors	*2 (1 front, 1 rear)*
Thermal Scan Module (option)	*2 (1 front, 1 rear)*
Led Sensors / Spectrum Analyzers (option)	*2 (front/rear)*
CCD Colour Cameras	*4 (2 front, 2 rear)*
Fixed Probes / Upgrade Up To	64 (minimum upgrade) / 320 (maximum)
Digital Embedded Channels	4
Automatic Marker Recognition	Yes
Automatic UUT Planarity Compensation	Yes

BOARD CLAMPING SYSTEM, UUT SIZES AND WORK AREA (*)

Board Clamping System	Manual, Dual action
Max Board Size	610 x 540mm (24" x 21,26")
Active Test Area	610 x 538mm (24" x 21,18")
Minimum Board Size (*)	35 x 35 mm (1.38" x 1.38")
20 x 20 mm (0.79" x 0.79") with Universal Frame	
Maximum Board Thickness	4 mm (0.157")
Minimum Board Thickness	1 mm (0.00393")
Maximum Component Height	40 mm standard, up to 300 mm with special probe setup
Board Loading	Vertical
UUT Edge Clearance	2 mm Manual, 6 mm Automatic

PITCH

Minimum Pad Pitch	150 µm (6 mils); 70 µm with optional HR probes
Minimum Pad Size	50 µm (2 mils); 35 µm with optional HR probes

PROBE FEATURES

Z-axis Travel	-3.0 mm (extra stroke for warpage compensation) to 60 mm programmable
Contact Force	10 g to 40 g - 75 g to 150 g programmable

TESTS AND MEASUREMENTS (INSTRUMENTS DSP)

Voltage Generator 1 DC/AC	±1 V range, to ±10 V range 125 µV resolution (±0.1%)
Voltage Generator 2 DC/AC	±1 V range, to ±10 V range 125 µV resolution (±0.1%)
Voltage Generator 3 DC/AC	±100 V range, 12.5 mV resolution (±0.1%)
Current: Generator DC/AC	±0.5 µA range to ±500 mA range 62.5 pA resolution (±0,1%)
Waveform Generator 1 and 2	Sin, Tri, Arbitrary 1 Hz to 3 MHz (±1 mHz) - ±10 V max
Waveform Generator 3	Sin, Tri, Arbitrary 1 Hz to 10 kHz (±10 mHz) - ±100 Vmax
Voltage Measurements	DC/AC ±200 µV range to ±100 V range 25 µV resolution (±0.1%)
Current Measurements	DC/AC ±1 µA range to 500 mA range, 122 pA resolution (±0.1%)
Frequency Measurement	0.1 Hz to 50 MHz
Digital Embedded Channel	±12 V - 500 mA - 10 MHz
Resistance Measurement	1 mΩ to 100 MΩ, 200 µΩ with Preamp option
Capacitance Measurement	25 fF to 1 F
Inductor Measurement	1 µH to 1 H
Zener Measurement	up to 100 V (200 V and 900 V/5 mA options)
Automatic Visual Inspection	Yes

GENERAL REQUIREMENTS

Temperature Range	23 °C ± 5 °C
Humidity	30% - 80% not condensing
Power Consumption	3.0 kW average
Air Flow	0.35 CFM - 10 l/min.
Weight	1400 kg (3000 lbs)
Length	1750 mm (78.90")
Width	1030 mm (40.55")
Height	1795 mm (70.60"), with light indicator 1995 mm (78.54")

SOFTWARE FEATURES

PC/Operating System	Windows 10 64 bit
Software	VIVA
Automatic Test Generation	Yes
Autodebug	Yes
Data Input Format	CAD Data/Manual
Parallel Test Capabilities	Yes

*Universal carrier for unique board configurations.