

## 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
- ♦ Probe pressure trace  
(Real time)
- ♦ LASER warpage compensation



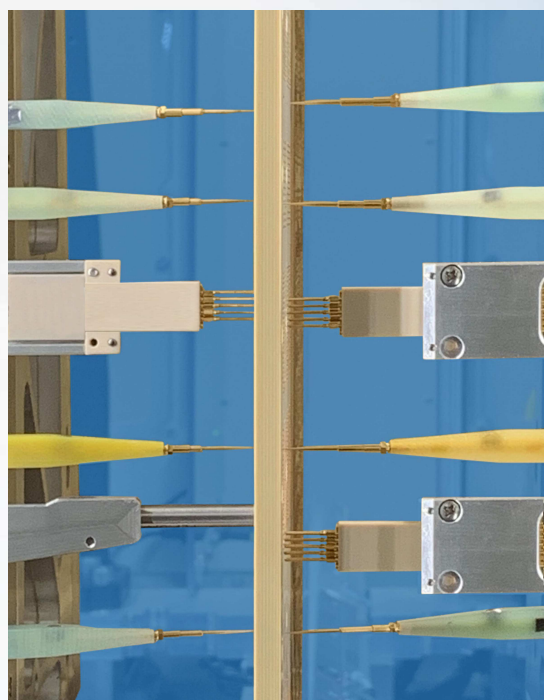
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Fast  
Powerful  
Smart

# PILOT VX

NEXT>

The **PILOT VX** goes beyond the concept of number of electrical probes. The **8** heads can be configured with up to 60 probes simultaneously contacting the Board Under Test and additional features for a total of **88** resources, plus **320** fixed hybrid channels.



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

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



**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.



TECHNICAL TABLE

SEICA SpA

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:	88:
Electrical Probes	60 (30 front, 30 rear)
OPENFIX Probes	2 (1 front, 1 rear)
Power Probes (2A each)	8 (4 front, 4 rear)
Flying Pods	4 (2 front, 2 rear)
Stampers	2 (1 front, 1 rear)
LASER Sensors	2 (1 front, 1 rear)
Thermal Scan Module (option)	2 (1 front, 1 rear)
Led Sensors / Spectrum Analyzers (option)	4 (2 front, 2 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

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

Board Clamping System	Automatic, manual insertion possible
Active Test Area	610 x 535 mm (24 x 21.06 ")
Board Size	635 x 538 mm (25 x 21.18 ")
Minimum Board Size (*)	45 x 45 mm (1.77 x 1.77")
Maximum Board Thickness	8 mm (0.315")
Minimum Board Thickness	1 mm (0.00393")
Maximum Component Height	60 mm standard, up to 350 mm with special probe setup
Board Loading	Vertical
UUT Edge Clearance	3 mm

PITCH

Minimum Pad Pitch	150 µm (6 mils)
Minimum Pad Size	50 µm (2 mils)

PERFORMANCE

Touch-Hits/sec	228.6
Test/sec	166.7

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	1880 mm (74.00")
Width	1130 mm (44.50")
Height	1795 mm (70.60")

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.

Seica reserves the right to change the technical specifications without notice