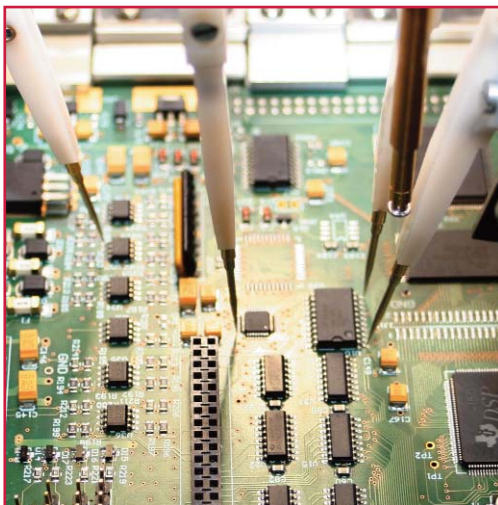


Pilot H4

Pilot Line



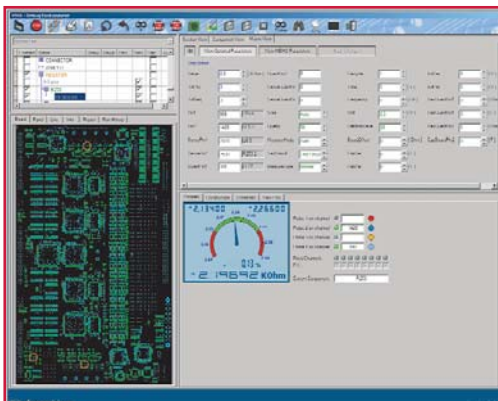
The Pilot H4 represents the best solution for those looking for an economic flying probe system. This is the ideal solution for low to medium volume production with the ability to expand at a future date. Equipped with 4 mobile electrical probes, 1 mobile openfix probe and 2 CCD cameras (optional), the Pilot H4 provides the user with a total of 7 mobile test resources applicable to any point on the UUT. In addition, there are 8 fixed analog channels (optional), 16 openfix sensor channels and power resources available, which can be applied to the UUT via fixed probes positioned on the mobile, bottom-side plate. The test area can accommodate 16" x 20" boards with split test. The ATE rack can be expanded with additional analog channels, connectable to an optional external bed of nails test fixture (TPM).



THE TEST TOOLS AND TECHNIQUES OF THE PILOT H4 INCLUDE:

- FNODE signature analysis on the nets of the UUT
- Standard analog and digital in-circuit test
- Vectorless tests (JSCAN and OPENFIX) to test ICs for opens and shorts
- PWMON net analysis for power on the boards
- Continuity test to detect open tracks on the PCB
- Visual tests for component presence/absence and rotation
- Optional functional test and boundary scan test capabilities

All of these measurement capabilities and techniques can be combined in a single test program, and the same test program can run using the flying probes or on an external bed of nails fixture, giving the user the maximum flexibility to manage changing production requirements.



VIP PLATFORM

The Pilot H4 is based on the Seica VIP platform, which includes the innovative VIVA software. Test program development is organized in 3 simple steps: "Prepare", "Verify" and "Test", where the user is guided through a series of automated operations in an intuitive, self-explanatory environment, drastically reducing programming time and minimizing errors and omissions, ensuring the quality of the final test program. For special applications, the extremely open architecture of the VIP platform enables easy integration of external software modules and/or hardware, such as RS232, USB ports, GPIB and PXI/VXI protocols.

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Seica reserves the right to change the technical specifications without notice

PROBES AND CAMERAS

| | |
|--|------------|
| Probes Position - Test Side | Top |
| Maximum Number of Probes | 5 |
| Number of Electrical Probes | 4 |
| Number of Openfix Probes | 1 |
| Number of Fixed Probes / Upgrade Up To | 8/328 |
| Digital Embedded Channels | 4 |
| Number of CCD Cameras | 2 |
| Automatic Marker Recognition | Yes |
| Automatic UUT Planarity Compensation | Yes |
| Thermal Scan Resource | 1 (option) |

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

| | |
|--------------------------|--|
| Board Clamping System | Manual |
| Active Test Area | 400 x 500 mm (15.74 X 19.68") |
| Minimum Board Size* | 35 x 35 mm (1.37 x 1.37") |
| Maximum Board Thickness | 7 mm (0.27") |
| Minimum Board Thickness | 0.3 mm (0.00118") |
| Maximum Component Height | 90mm (3.57") top - 100 mm (3.93") Bottom |
| Board Loading | Horizontal |
| UUT Edge Clearance | 2 mm |

PITCH

| | |
|-------------------|-----------------|
| Minimum Pad Pitch | 200 µm (8 mils) |
| Minimum Pad Size | 75 µm (3 mils) |

PROBE FEATURES

| | |
|---------------|-------------------------------|
| Z-axis Travel | -3.0 mm to 40 mm programmable |
| Contact Force | 25 g - 100 g programmable |

TESTS AND MEASUREMENTS (INSTRUMENTS DSP)

| | |
|--|--------------------------------------|
| Voltage Generator 1 DC/AC (DRA) | ±1 mV to ±10 V (±0.1 %) |
| Voltage Generator 2 DC/AC (DRB) | ±1 mV to ±10 V (±0.1 %) |
| Voltage Generator 3 DC/AC (DRC) | ±25mV to ±100V (±0.2 %) |
| Current Generator DC/AC | ±1 nA to ±0.5 A (±0.1 %) |
| Waveform Generator 1 Sin, Tri, Arbitrary (DRA) | 1 Hz to 3 MHz (±1 mHz) - ±10 V max |
| Waveform Generator 2 Sin, Tri, Arbitrary (DRC) | 1 Hz to 10 KHz (±10 mHz) - ±100V max |
| Voltage Measurements DC/AC | ±200 µV to ±100 V |
| Current Measurements DC/AC | ±3 nA to ±0.5 A |
| Frequency Measurement | 0.1 Hz to 10 MHz |
| Digital Embedded Channel | ±12 V - 500 mA - 10 MHz |
| Resistance Measurement | 1 mΩ to 100MΩ |
| Capacitance Measurement | 1 pF to 1 F |
| Inductor Measurement | 1 µH to 1 H |
| Zener Measurement | up to 100 V (200 V option) |
| Automatic Visual Inspection | Yes |

GENERAL REQUIREMENTS

| | |
|-------------------|------------------------------------|
| Air Flow | 0.21 CFM |
| Temperature Range | 25°C ± 10°C |
| Humidity | 30 - 80 % |
| System Power | 220 V/50 Hz 14 A, 110 V/60 Hz 26 A |
| Power Consumption | 3.0 kW max |
| Weight | 1400 kg (3087 lbs) |
| Length | 133 cm (52.36") |
| Width | 169 cm (66.54") |
| Height | 170 cm (66.92") with monitor |

SOFTWARE FEATURES

| | |
|---------------------------|----------------------|
| PC/Operating System | Windows XP/Windows 7 |
| Software | VIVA |
| Automatic Test Generation | Yes |
| Autodebug | Yes |
| Data Input Format | CAD Data/Manual |

*Universal carrier for unique board configurations.

