

IPS-FA

KitStart for electrical failure analysis of probing features smaller than 1 micron.



IPS-FA is a precision probing solution for electrical failure analysis of probing features smaller than 1 micron. It can adapt to the applications for optimized I-V/C-V, PIV and RF tests without making any changes to the probe station. This KitStart saves you time and money for setting up a system for a wide variety of applications.

Compact design of IPS allows you to put it on a table top vibration isolation platform for space saving purpose. The probes to pads contact quality is protected during the measurement time. As part of this KitStart system, we offer DCP100 or HPP100 probing options for precision probe placement. We have S10-TRIAX/FemtoProbe probing kits for precise I-V probing and CPA-10 for optimized C-V measurements.

This system incorporates a high power Superscope and AccuStage. The Superscope helps you to get a clear view of sub-micron features at ease. AccuStage allows you to achieve accuracy in X-Y-Z movement when probing on submicron pads. With a air bearing stage, you can move the chuck in X-Y direction quickly, thus ensuring probing setting up efficiency.

Features

- Flexible KitStart system for a wide variety of applications such as I-V/C-V, PIV and RF tests.
- Best known test methods for DC parametric tests and measurements.
- Modular design, easy to upgrade system when requirements change.
- Intuitive manipulation, effortless to use the probe station, minimize training efforts.

Solid Mounting Bridge and Precision Movements

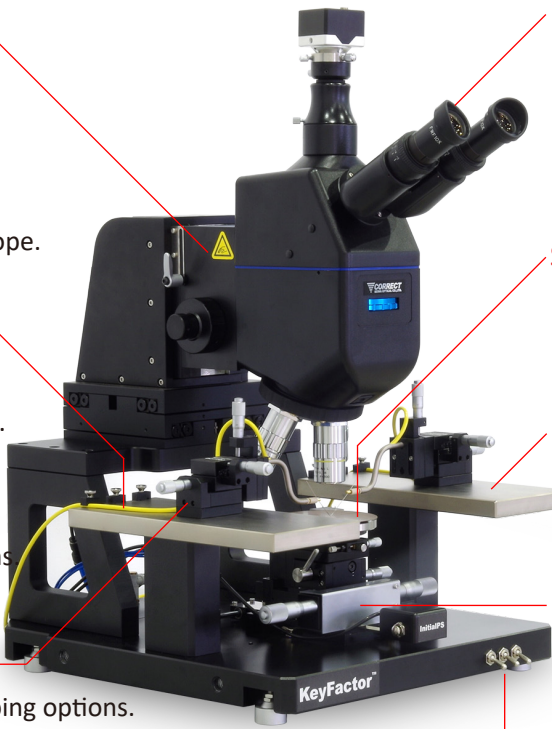
High rigidity mounting bridge for Superscope stability for submicron probing.
Precise micrometer head adjusters allow accurate positioning of microscope.

Optimized Signal Path

Optimized signal cables for I-V/C-V, PIV and RF measurements.
Rigid probe arms allow stable probing.
Application oriented KitStart: S10-TRIAx, FemtoProbe for precise I-V tests or CPA-10 probes for accurate C-V tests and LCR applications RFH-100 for highly stable RF test.

Probing Options with Accuracy

DCP100 or HPP100 backlash free probing options.
Down to 0.5 micron probe placement accuracy.
Intuitive manipulation, ease of probe to pads alignment and touchdown.



Trinocular Superscope

Maximum 2000X optical magnification
1X~2X zoom
C-Mount included for cameras
LED illumination for excellent image contrast and long lifetime.

Standard Chuck

4 to 8 inch available upon request.
<+/-2.5 micron planarity.
Coax, triax or RF options available.

Universal Probing Platens

Rigid and stable design.
Compatible with magnetic or vacuum mounting micropositioners.

AccuStage

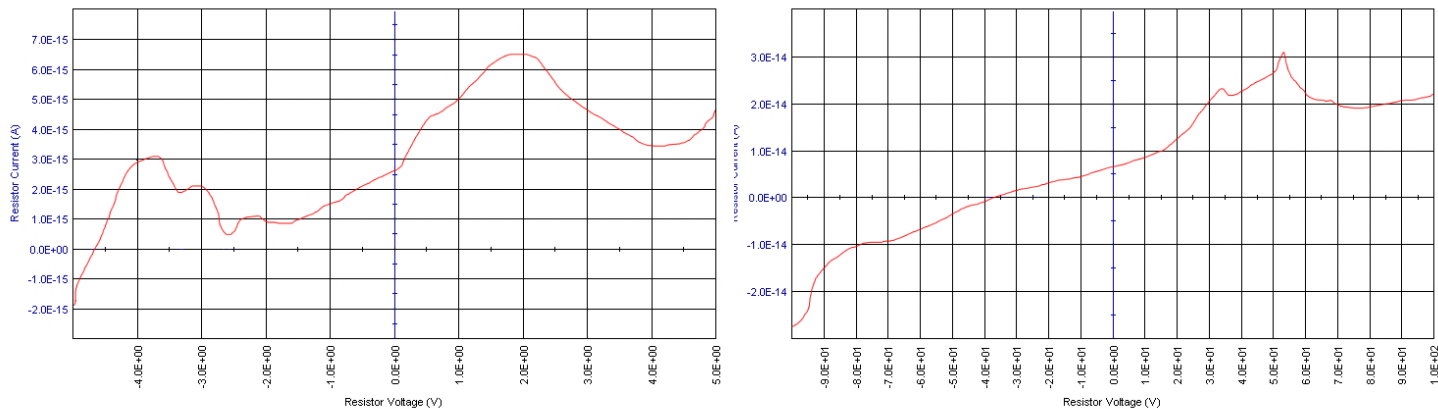
Air Bearing stage for intuitive manipulation with coarse but smooth X-Y movement.
AccuStage with precise X-Y-Z and theta rotation.

Vacuum Control

Independent control for chuck and calibration chuck vacuum.

Electrical Performance (I-V measurement)

Current range	1pA
Voltage range	0~5V, 0~100V
Current leakage	<10fA(FemtoProbe), <100fA(S10-TRIAx0)
Breakdown voltage	500V



*These test results are acquired by Keithley 4200. Probe station set up: IPS-TRIAx, DCP100(2SET) , FemtoProbe/S10-COAX-BNC(2SET) with 10 micron probe tips floating. Room Temperature 25 C , RH<45%.

Electrical Performance (C-V measurement)

Current leakage	<10fA
Frequency	>150MHz
Capacitance	<10fF
Impedance	50 Ohm

*Capacitance is measured by Keysight 4980A LCR. Probe station set up: IPS-COAX, DCP100(2SET) , CPA-10(2SET) with 10 micron probe tips on a gold pad. 1 meter coax cable, 4-terminal-pair connection. Room Temperature 25 °C , RH<45%.

Ordering Information

IPS-FA	4 or 6 inch chuck IPS probe station with AccuStage and Superscope.
HPP100	0.5 micron accuracy micropositioner for stable and backlash free probing.
DCP100	2 micron accuracy micropositioner for stable and backlash free probing.
S10-TRIAX	Probe holder for I-V measurement, 2m cable, TRIAX connector. Current leakage <100fA.
FemtoProbe	Less than 10fA current leakage
CPA-10	Probe for precision C-V measurement.
RFH-100	Rigid probe arm for RF probes.
CA-SSMC-BNC	Coax cable assembly for LCR meters. 1/2/3 meters available upon request.
CA-TRIAX-SMA	High resolution measurement triax cable assembly. 2m, TRIAX to SMA connector.
CAM-MP200-HDMI	High resolution camera with snapping, recording and size measuring. HDMI connector to LCD monitor.
CAM-MP200-VGA	High resolution camera with snapping and recording. VGA connector to LCD monitor.
VIT-TableTop	Table top vibration isolation table.

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