IPS-BIV

KitStart for basic I-V measurement.



IPS-BIV is a cost-effective probing solution for basic I-V measurements. This system incorporates everything you need for tests and measurements down to nA levels. The modular design of IPS allow you to upgrade your IPS-BIV to a higher system for coax, triax, RF, high current or high voltage tests and meausrements by simply replacing parts of this system. Your current investment will be protected for your future needs.

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 meausurement time. As part of this KitStart system, we offer DTP100 or DCP100 probing options for stable and backlash free probe placement. S10-BA probe holder has a rigid structure with built-in cable and shrouded banana plug for optimized connection to tests and measurements instruments, such as source and measurement units, multimeters, power supplies, etc.

We have two options for chuck stage: AccuStage and SimpleStage. SimpleStage has coarse X-Y movement and is used for samples with large geometric probing structures and accurate positioning is not necessary. AccuStage allows you to achieve accuracy in X-Y-Z movement when probing on tiny pads. Both stages are built on air bearing stage for coarse but smooth X-Y movement.

Features

- Less than 10nA system current leakage.
- Best known test methods for DC parametric tests and meausurements.
- Modular design, easy to upgrade system when requirements change.
- Intuitive manipulation, effortless to use the probe station, minimize training efforts.

IPS-BIV

Boom Stand Microscope Holder

Pivoted desgin with locks. Easy to move and lock the microscope position.

Standard Chuck

4 to 8 inch available upon request.
<+/-2.5 micron planarity.
Banana plug for device biasing.

Optimized Signal Path

Optimized cable with flexibility.
Shrouded banana plugs for reliable connection to SMUs, power supplies or multimeters, etc.
Less than 10nA current leakage.
Rigid probe arms allow stable probing.
Coax or triax available upon request for optimized I-V/C-V meaurements.

Probing Options with Accuracy

DTP100 or DCP100 backlash free probing options.
Down to 3 micron probe placement accuracy.
Intuitive manipulation, ease of probe to pads alignment and touchdown.



Trinocular stereo microscope

6.7X zoom
100X magnification
C-Mount included for cameras
LED illumination for excellent image contrast and long lifetime.

Universal Probing Platens

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

AccuStage or SimpleStage Options

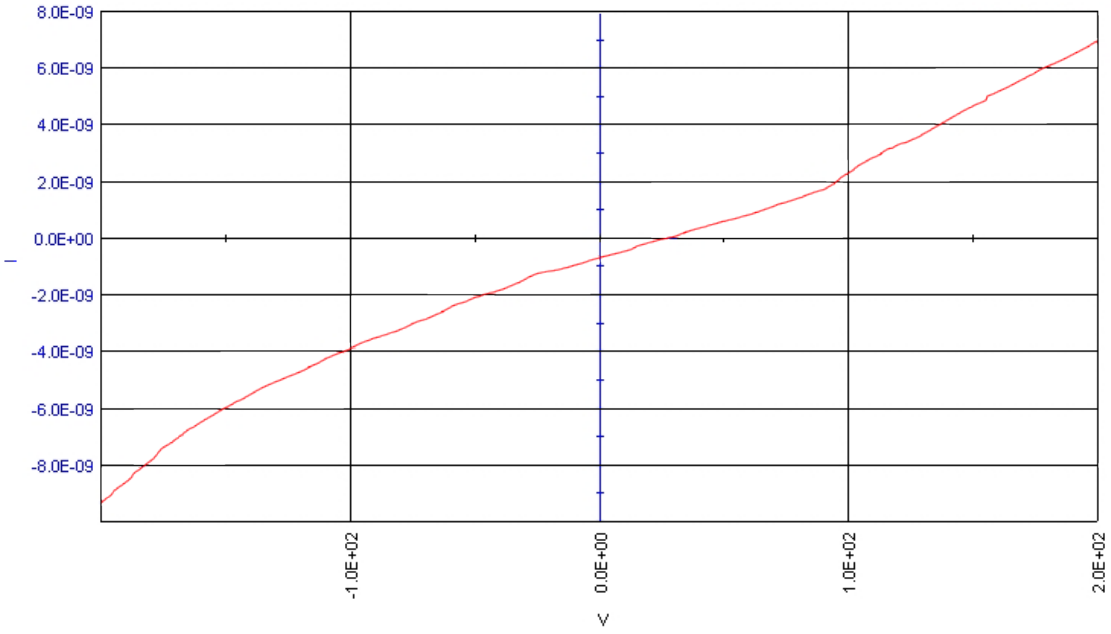
Air Bearing stage for intuitive mani -pulation with coare but smooth X-Y movement.
AccuStage with precise X-Y-Z and theta rotation.
SimpleStage with coarse and fine theta rotation.

Vacuum Control

Independent control for chuck and calibration chuck vacuum.

Eletrical Performance

	Current range	1μA
	Voltage range	0~200V
	Current leakage	<10nA
	Breakdown voltage	500V



*This test result is acquired by Keithley 2400. Probe station set up: IPS-BIV-AS-Stereo, DCP100(2SET) , S10-BA(2SET) with 10 micron probe tips floating. Room Temperature 25℃, RH<45%.

Ordering Information

IPS-BIV-AS-Stereo	4 or 6 inch chuck IPS probe station with AccuStage and 100X stereo microscope.
IPS-BIV-SS-Stereo	4 or 6 inch chuck IPS probe station with SimpleStage and 100X stereo microscope.
IPS-MB	Optional rigid and stable mounting bridge for microscopes. Offers a high rigidity platformfor microscopes.
DTP100	5 micron accuracy micropositioner for stable and backlash free probing.
DCP100	2 micron accuracy micropositioner for stable and backlash free probing.
S10-BA	Probe holder, 2m cable, shrouded banana plug. Current leakage <10nA.
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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