

SimplePS

A 4" platform for basic
I-V/C-V measurements.



Application

Basic I-V/C-V, PIV Tests;
MEMS, NEMS, Optoelectronics Tests;
,etc.

Features

Application oriented – KitStart test kits for I-V/C-V, PIV tests.
Cost-effective – Extremely cost-effective model with basic probing functions.

Description

SimplePS offers a very simple platform for basic I-V/C-V probing with DTP100 micropositioners. With KeyFactor's S10 series probing accessories, the system can be set up to work with multimeters, power supplies, SMUs(Source and measurement units), LCR, etc.

Specifications

Chuck

Diameter	4"
Material	Stainless Steel
Plating	N.A.
Planarity	<5 μ m@Ambient Temperature

Chuck Stage – Option1

X-Y travel range (Coarse)	Magnetic Stage, driven by hands.
Theta travel range (fine)	$\pm 9^\circ$
Theta resolution	0.0001 $^\circ$ /deg
Theta travel range (coarse)	360 $^\circ$

Platen&Base

Material	Steel, Ni-Plated (platen), Al(Aluminum)
Space	For up to 4 DTP positioners. Can be customized for more positioners.
Mounting Compatibility	Magnetic and vacuum mounting.
Height Adjustment	N.A.

Stereo Microscope

Magnification	5X~100X
Zoom Lens	0.75~5X
Eyepeices	10X
Z Travel Range	50mm
Stand	Boom Stand

Physical Dimensions

Part #	Description
SimplePS	15kg, 360mm*260mm (footprint W*D)

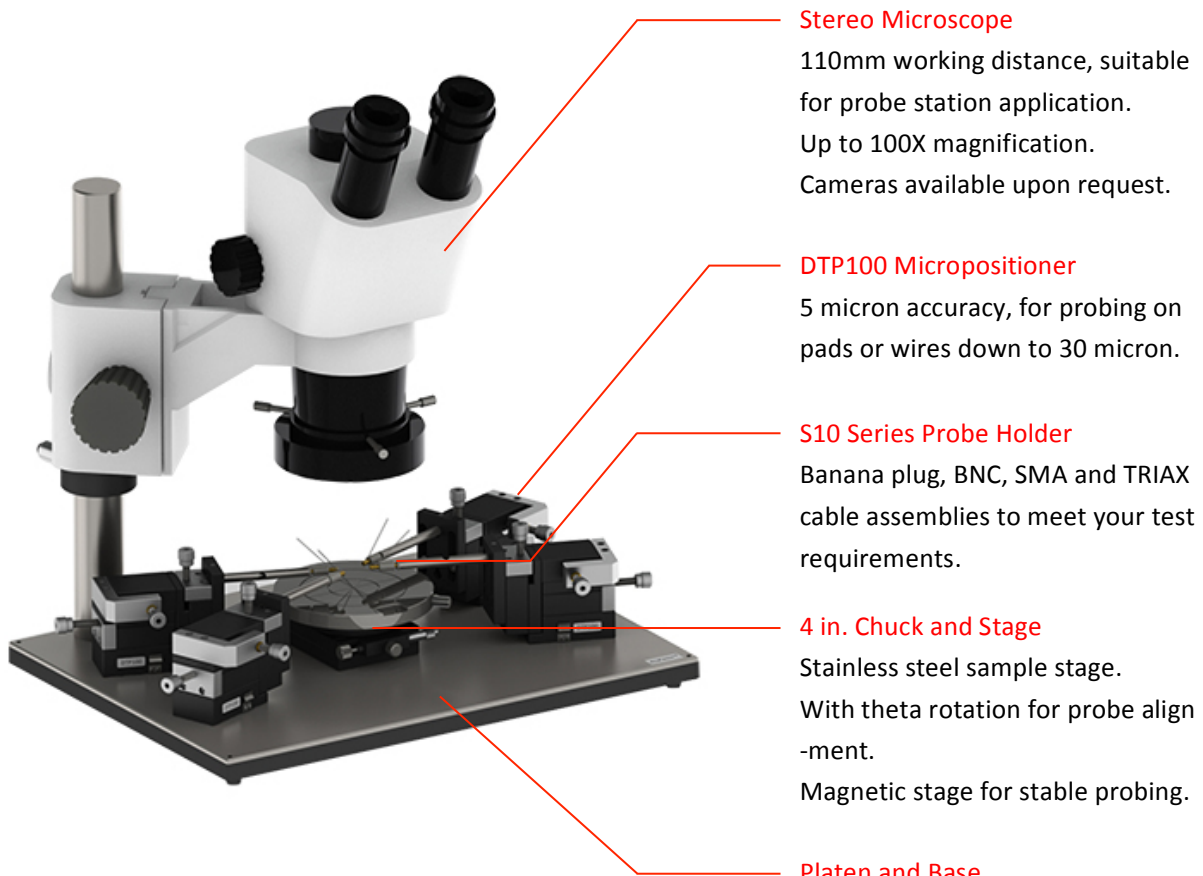
Measurement Accuracy

Part #	Range	Accuracy
SimplePS-Basicl-V	1 μ A	rdg+10nA
SimplePS-COAX	1nA	rdg+10pA
SimplePS-COAX-PIV	1nA	rdg+10pA
SimplePS-TRIAX	10pA	rdg+100fA

Order Information (standard systems)

Part #	Description
SimplePS-Basic I-V	1 SimplePS with 2 SETs of DTP100 and S10-BA probe holder. Generally used with SMUs, power supplies and multimeters. Additional 2 SETs of DTP100 and S10-BA can be ordered for 4 wire measurement.
SimplePS-COAX	1 SimplePS with 2 SETs of DTP100 and S10-COAX-BNC probe holder. Generally used with SMUs(adapters might be needed), Oscilloscopes, LCR, etc.
SimplePS-COAX-PIV	1 SimplePS with 2 SETs of DTP100 and S10-COAX-SMA probe holder. For ultra-fast I-V tests: pulsed I-V, transient I-V, and pulsed sourcing.
SimplePS-TRIAx	1 SimplePS with 2 SETs of DTP100 and S10-COAX-TRIAx probe holder. For high resolution I-V measurement with SMUs and semiconductor characterization systems, such as Keithley 2450, 2600, 4200 and Keysight 2900, B1500., etc.

More micropositioners and probe holders can be ordered for devices with more terminals.



Stereo Microscope

110mm working distance, suitable for probe station application. Up to 100X magnification. Cameras available upon request.

DTP100 Micropositioner

5 micron accuracy, for probing on pads or wires down to 30 micron.

S10 Series Probe Holder

Banana plug, BNC, SMA and TRIAX cable assemblies to meet your test requirements.

4 in. Chuck and Stage

Stainless steel sample stage. With theta rotation for probe alignment. Magnetic stage for stable probing.

Platen and Base

For up to 4 DTP100 positioners. Larger space available upon request.

* Specifications and desgns are subject to change without notice.