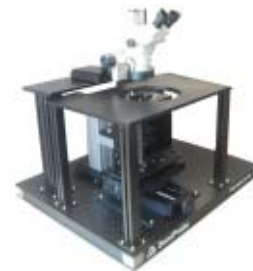




“ Just like the erector set I had as a child that allowed me to “build” what I wanted, PS4L

allows me configure a station that exactly suits my needs and budget. Plus, I can upgrade it as my budget allows!”

- Arizona State University



Probe System for Life

The Last Probe System you'll Ever Have to Buy!



INNOVATION

*

QUALITY

*

MODULARITY

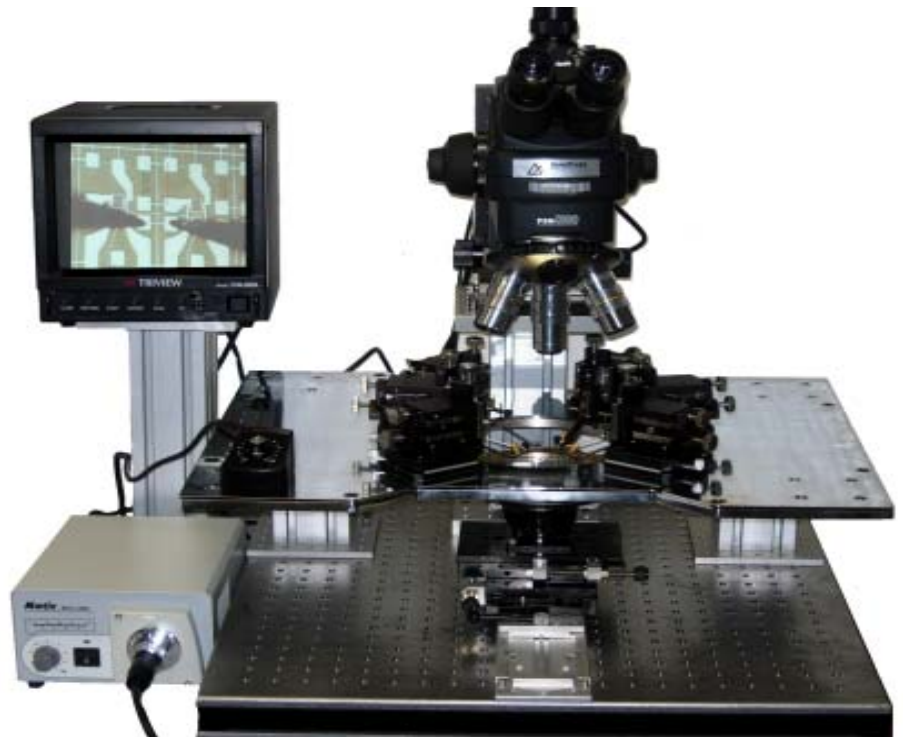
*

AFFORDABILITY

Probe for Life



Don't buy what a prober company wants to sell you! Buy just what you want and need!



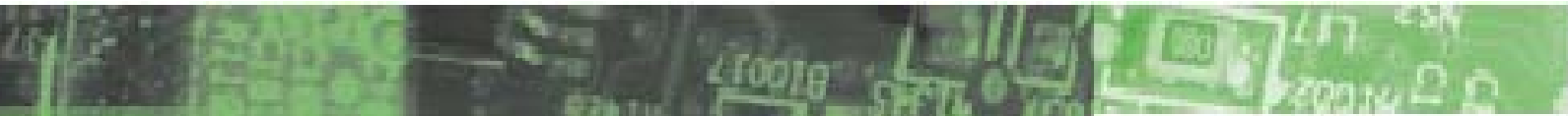
Probe System for Life (PS4L) is a universal test platform that allows the user to start with a basic manual system and perpetually upgrade or reconfigure the system as needed. Changes in wafer or substrate size, level of automation (manual, semiautomatic, or fully automatic), or application requirements can be made quickly in the field. Cost saving of these upgrades is often 70% versus traditional test platforms.



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www.semiprobe.com

Request a Quote

Request a quote today by E-mailing info@semiprobe.com or visit our website at www.semiprobe.com



How to build a system...



Please Select...					
Base	Optical breadboard	Tabletop isolation breadboard	Vibration isolation table		
Stage	Manual	Motorized	Programmable		
Device Holder	Packaged Part Chuck	Vacuum Wafer Chuck	HF/Microwave Vacuum Chuck		
Stage & Chuck Size	2" (50 mm)	4" (100 mm)	6" (150 mm)	8" (200 mm)	12" (300 mm)
Platen	Fixed	Adjustable			
Microscope (Optics)	StereoZoom	Compound	Zoom Tube		
Optics Mount	Boom	Manual X,Y	Programmable X,Y	Fixed	
Optics Mount Base	Post	Bridge			
Contact device	Probe Card Holder	Manipulators			
Options & Accessories (Some of our more popular ones)	Thermal Chucks	Microfluidic Stage	Ultra High Temperature Crucible	Precision Measurement Stage	MEMS Motion Analyzers
	Optical Components	Instrumentation	Probes	YAG Laser Systems	CCTV Systems
Software	PILOT	VCSEL	Instrument drivers	CV/IV	Test Control

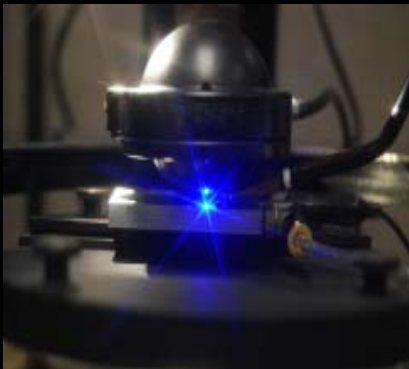


Note:
Some components may or may not be compatible with other selections. Please contact your SemiProbe Applications Engineer for help!

For More Information call (802) 860-7000

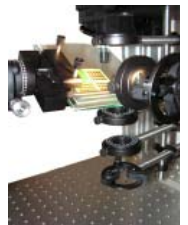
Applications

Application
specific
standard
designs or
custom
configure to
meet your
requirements!



A few of our applications:

- ◆ Microelectronics
(DC to 300 GHz)
PC Board Test
Packaged Parts
Silicon Laser Microsurgery
- ◆ Optoelectronics
LED
VCSEL
EELD
OLED
- ◆ MEMS, NEMS, & MOEMS
Sensors
Actuators
Accelerometers
- ◆ Nanotechnology
Carbon Nanotube Research
- ◆ F-RAM, M-RAM, Spintronics
- ◆ Material Science
- ◆ Chemistry
- ◆ Microfluidics
- ◆ Biotechnology and Life Sciences
- ◆ Photovoltaics (PV)



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Semiautomat- ics



Grows from simple manual to semiautomatic!

SA-4

If you had started with a simple PS4L manual system, you can field upgrade to SA-4 programmable semiautomatic status. This system utilizes SemiProbe's *PILOT* control software suite which is a powerful yet easy to learn and use graphical user interface. If you start with the SA-4 configuration, conversion to SA-6 or SA-8 can be done quickly and easily at your facility and at a fraction of the cost of buying new larger wafer capable equipment! The SA-4 is ideally suited to III/V compound devices on small wafers. This cost effective alternative to purchasing old obsolete 100 mm equipment allows you freedom from costly downtime delays.



SA-6

For 150 mm (6") wafers and substrates, the SA-6 is an economical replacement for older less reliable high speed probing systems. The only 150 mm system on the market with low temperature chamber capability, the SA-6 has all of the advanced probing features of world's most advanced probers at a price, footprint and reliability standard that makes used and reconditioned equipment uneconomical!

SA-8

The PS4L SA-8 is 200 mm (8") probing system that can be configured as a high speed niche production prober or a high precision analytical prober. Ideally suited to MEMS production testing because it's a flexible platform, non-electrical stimulation and measurement systems may be easily added with a minimum amount of custom work. The removable front platen panel makes loading and unloading easy while maintaining the ability to do HF/Microwave 4-port measurements or to maximize the number of manipulators utilized. All PS4L systems may be equipped for use with manipulators or probe card holders.



For More Information call (802) 860-7000

Options & Accessories

◆ Environmental Chambers

When testing at temperatures below the dew point, a controlled low humidity chamber is required to prevent frosting of the DUT. Dark boxes, inert gas, electronic isolation environments are also available.

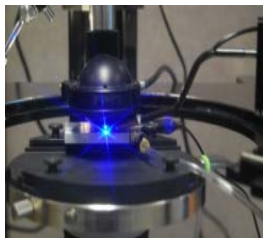


◆ Vibration Isolation

Tabletop and full vibration isolation tables are available as the base for your PS4L.

◆ Thermal Control Units

SemiProbe offers a very cost effective thermal unit for use with small wafer fragments and packaged parts, as well as an ultra high temperature material science research stage.



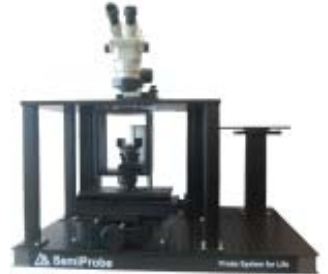
◆ Laser Characterization

For both VCSEL and EELD devices, SemiProbe has a manual R & D to full production solutions. The changeover from edge to surface emitting devices can be accomplished in

minutes! This system is also suitable for OLED and LED devices.

◆ Magnetic Stimulation System

Often for F-RAM, M-RAM and Spintronics research the need to position a high power magnetic source in close proximity to the DUT is required. The SemiProbe solution allows near contact at 3 mm and offers full motion control of the DUT, Magnetic Source and optics.



◆ Optics

Suitable for StereoZoom, Compound, A-Zoom or ZoomTube optical systems with the appropriate mounting configuration for each.

◆ Turn Key Solutions

SemiProbe offers fully integrated test solutions including instrumentation if desired.

◆ Options & Accessories:

Test Instruments & Racks, Manipulators, DC, HF/ Microwave, Active, Passive Sensing & Optical Probes, Inkers, Test Cables, Optical Integrating Spheres, Vacuum Pumps, Test Software, PC's, Monitors, Cameras and more...

SemiProbe Manipulators



MA-8005
DC/Pad Probe



MA-8000
Universal DC/HF



MA-8022
Precision heavy duty
manipulator for small features
and HF/Microwave



MA-8100
Microfluidic probe for
sub-micron probing