

Ambient 4-Probe Surface Measurement System

UP2000-4P

This system enables various kinds of "micron-order" to "nano-order" surface electricity measurements and manipulation in the atmosphere.

Main Applications

- Micro to nano-manipulation of samples
- Measurements of various kinds of electric properties of sample surfaces by multi-probing





- You can control the positions of each of the four probes indivisually along the three axes, X, Y, and Z, using a personal computer and a remote control, while observing the sample surface under an optical microscope.
- No need to make troublesome sample position adjustments. The sample stage can be moved independently in X and Y directions.
- This system can also be used to heat samples.
- You can manipulate samples easily and intuitively while observing the surface shown on the screen of your personal computer.

4-probe stage and optical microscope

and optical microscope (custom order)

We can also manufacture high-vacuum systems for probing and surface measurements in a vacuum. Please feel free to ask us any questions you may have.

Instrumental components are subject to change without prior notice for improvement in performance

Ambient 4-probe Surface Measurement System

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Configuration

4-probe stage main body (with an optical microscope)	1
4-probe controller (with a remote control)	1
Notebook PC for control and observation (with a control program)	
Ptir Probes	1 set



Specifications

Optical Microscope and CCD Camera

Minimum Resolution	2μm ~ 13μm (when the standard lens is used)
	Equipped with a zoom function as standard
	CCD camera 2 million pixels
	Maximum display size 1600 x 1200
	Equipped with an illumination source and
	fiber as standard
4-probe Stage	liber as standard
Size	140mm v 140mm
Inner Diameter of Stage Case	140mm x 140mm
Maximum Travel Distance	(Option) 200mm dia.
	XY: 5mm, Z: 3mm
Fine Positioning Travel Distance	. Fr
Driving Method	Pulse control and linear control modes
Sample Stage	
Maximum Travel Range	X axis: 10mm
	Y axis: 5mm
	Driving method: Pulse control
*The heating and cooling stages	s are available as options.
Sample Holder	
Maximum Sample Size	10mm x 10mm
2 Contacts for Applying the Curi	rent for Heating
*5 contact terminals are available	e for users.
Probes	
Probe Tip Diameter	0.5mm to 0.3mm
*Other probes are available as o	ptions.
*We offer Ptlr and tungsten prol	pes.
*Each probe tip is provided as a	measurement terminal.

Control Unit

Control Onit	
Dedicated 4-probe Controlle	r
Input Voltage	100 to 115 VAC (50/60Hz)
	200VA (Max.)
Input	Dedicated control terminal
Output	Dedicated 4-probe terminals (4 outputs)
Display Function	LED to indicate the pulse-control movements
	in the X, Y, and Z directions
Dedicated Stage Controller	
Input Voltage	100 to 115VAC (50/60Hz)
	100VA (Max.)
Output Terminal	Stage control terminal
	X and Y axes (manually switched)
Input Terminal	Dedicated external remote control terminal
	Equipped with a remote control as standard
Control PC	Notebook PC (compatible with Windows 7
	and Windows 10), Pre-installed with the
	dedicated control software, Equipped with a
	dedicated remote control as standard.

^{*}Electric property measurement circuits and other necessary items should be prepared by the user.

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UNISOKU Co., Ltd.

