

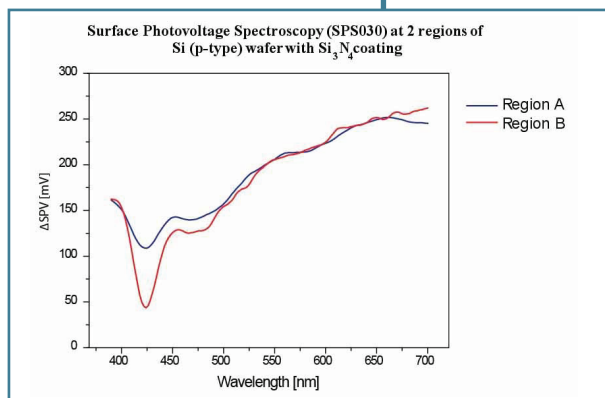
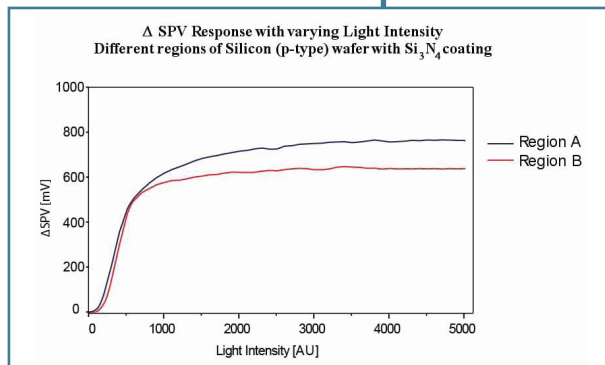
SURFACE PHOTOVOLTAGE SPECTROSCOPY MODULE SPS030

The SPS030 is the perfect all-in-one solution for in-depth studies of light sensitive materials such as solar cells, semiconductors or light sensitive dyes. The system offers a comprehensive range of measurement modes including DC and AC surface photovoltage potential studies utilising the in-built optical chopper. Total digital control of all parameters including light intensity and wavelength (400-700 or 400-1000nm) gives the opportunity to investigate the quality of samples, and characterise interface and bulk defect states.

The flexible fiber optic allows easy positioning of the light source for either above sample or through sample (below) illumination with the use of one of our special sample holders, ideal for larger silicon wafers.

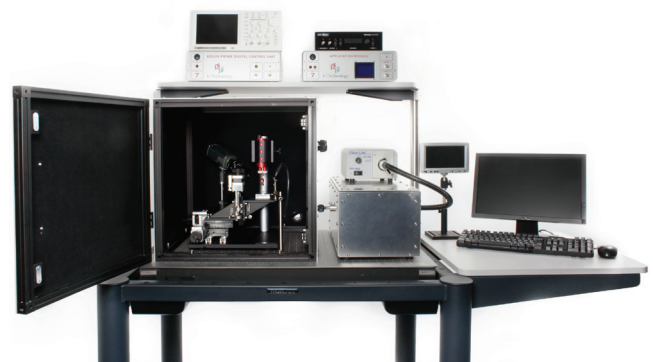
SYSTEM SPECIFICATIONS

- ◆ 150W DC QTH light source with fiber optic illumination
- ◆ Wavelength Range: 400-700nm (25nm FWHM)
400-1000nm (45nm FWHM)
- ◆ Application Module Digital Control Unit
- ◆ Optical Chopper or KP Trigger Measurement modes
- ◆ Upgraded SPS Software Package
- ◆ 12 month Warranty



“ The Kelvin Probe that you developed is wonderful because the distance is kept in measurement using gradient constant function. It is hard to set the distance between sample and probe with other systems. We have two Kelvin probes: the KP Technology System is better in sensitivity, ease of use and customer service. ”

Dr. Shinjiro Yagyu
National Institute for Materials Science
Ibaraki, Japan



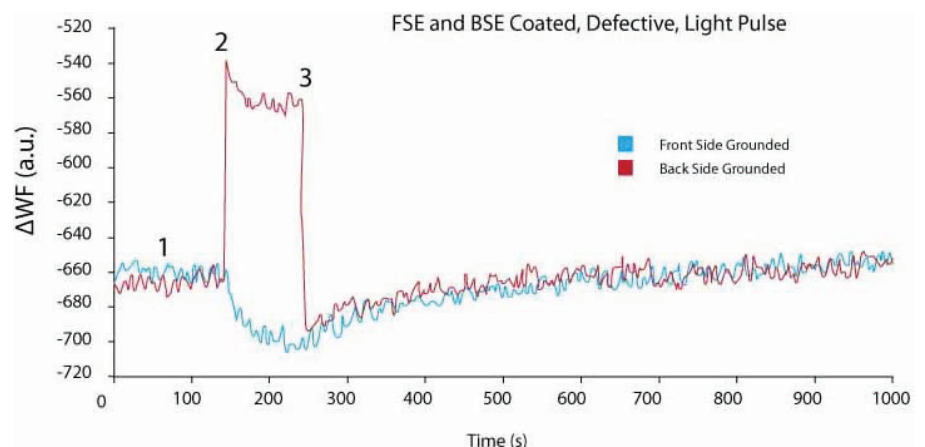
Pictured with Science Desk

SURFACE PHOTOVOLTAGE MODULE SPV020

The SPV020 module is the ideal upgrade to any of our Kelvin Probe systems, for anyone with an interest in light sensitive materials such as solar cells, semiconductors or light sensitive dyes. To investigate sample defects, simply measure the voltage transients by pulsing the light and measure ~1000 surface potential points per minute. Vary the light intensity of the 150W DC regulated Quartz Tungsten Halogen bulb to achieve open circuit potential or investigate the quality of your latest roll to roll solar cells.

SYSTEM DESCRIPTION

- ◆ 150W DC QTH light source with fiber optic illumination or High Intensity Luxeon LED
- ◆ Digital Variable Intensity Light Source Control (0-100%)
- ◆ Upgraded SPV Software Package
- ◆ 12 Month Warranty



KP Technology