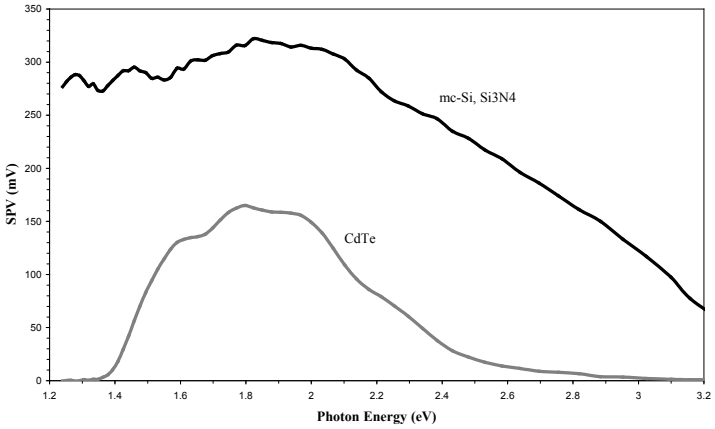
Surface Photovoltage Modules

SPS030, SPS040

System Description

The surface Photovoltage Spectroscopy modules are the perfect all-in-one solution for in-depth studies of light sensitive materials such as Organic Semiconductors, Solar Cells or Light Sensitive Dyes.

The modules offer a comprehensive range of measurement modes including DC and AC surface photovoltage studies utilising the built-in Optical Chopper. Total digital control of all parameters including light intensity and wavelength (400-700nm or 400-1000nm) gives the oppurtunity to investigate the quality of samples , characterise interface and bulk defect states.



SPS Response of mc-Si, Si3N4 and CdTe Samples

Surface Photovoltage Spectroscopy SPS030 Pictured with Silicon Solar Cell Sample

Features

- SPS030 - 400 to 700nm Range
- SPS040 - 400 to 1000nm Range
- Intense White Light QTH Source
- DC and AC Measurement Modes
- Compatible with all Kelvin Probe Systems

Applications

- Organic and Non-Organic Semiconductors
- Metals
- Thin Films
- Solar Cells and Organic Photovoltaics
- Corrosion

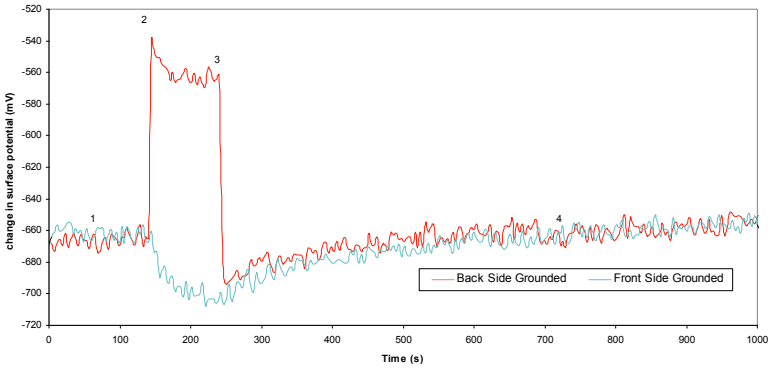
Surface Photovoltage Modules

SPV010, SPV020

System Description

TThe SPV010 or SPV020 module is the ideal upgrade to any of our Kelvin Probe Systems, for any one with an interest in light sensitive materials such as solar cells and light sensitive dye. 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 silicon solar cells.

The modules come in two forms; SPV010 is an intense White LED that is a simple on/off DC measurement; SPV020 is an extremely intense Quartz Tungsten Halogen Light source that has a variable light intensity from softare control.



FSE and BSE Coated, Defective, measured with SPV020 QTH Light Pulse

Quartz Tungsten Halogen SPV020 Source and SPV010 LED Source with Electronics Control Box

Features

- SPV010 - White LED Light Source
- SPV020 - QTH Variable Light Source
- Intense Light Sources
- Automatic Software Control
- Compatible with all Kelvin Probe Systems

Applications

- Organic and Non-Organic Semiconductors
- Metals
- Thin Films
- Solar Cells and Organic Photovoltaics
- Corrosion