

CEP-25ML Spectral Response Measurement System

For Multi junction solar cells and compound semiconductor solar cells



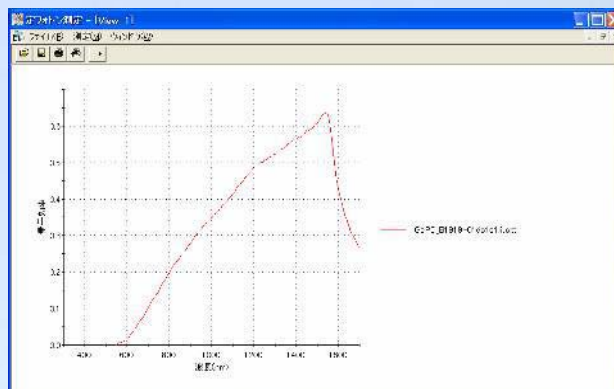
*Actual appearance of the instrument is black

By irradiating monochromatic light in constant energy or constant photons that does not have dependency on the wavelength, the model CEP-25ML is able to measure the spectral response and quantum efficiency of the various kinds of solar cell. For the measurement of the multi junction solar cells, a color bias light source is employed in the system.

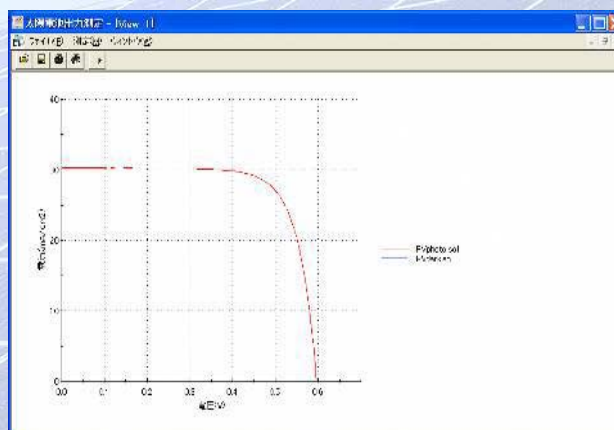
A white bias light source is available as a standard which enables the model CEP-25ML to measure the I-V curve with the AM-1.5G filter as a solar simulator easily in addition to spectral response measurement under the pseudo sunlight.

Specifications

Measurement items	Spectral response, quantum efficiency, I-V curve
Wavelength range	300-1700nm (extended up to 2000nm as an option)
Monochromatic light	
Light source	Xe lamp (Halogen lamp is available as an option)
Irradiation area	20x20mm
Wavelength purity	Variable, ca. 20nm
Irradiation intensity	5~50μW/cm ² (50~1200nm)
In-plane uniformity	± 2.5% @550nm
Constancy of wavelength intensity	± 3%
Irradiation mode	Constant energy, constant photons
Measurement mod	DC and AC(13-100HZ)
White light bias	
Light source	Xe lamp (automatic color bias)
Irradiation area	20x20mm
Spectral coincidence	Class A (0.75~1.25) (under Japan Industrial Standard)



Ge photodiode in constant photons mode(example date)



I-V measurement (example data)

*The specifications and appearance are subject to change without prior notice.

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