Specifications

Model	BQE-100C　Spectral Response/Quantum Efficiency Measurement System
Measurement mode	Spectral Response/Quantum Efficiency Measurement
Wavelength range	300～1100nm
Wavelength purity	Approx. 20nm
Irradiation area	10mm x 10mm
Irradiation intensity	More than 100μW/cm^2 (around 470nm)
Light intensity detector	Si-PD　supplied with calibration data for spectral response
Lamp	Xenon lamp　150W　Ozone free type
Software	Display of light intensity, spectral response and quantum efficiency Calculation of short-circuit current density（Jsc＝mA/cm^2） OS: Windows７

Option

- **AC measurement unit**
  AC optical response measurement using a lock-in amplifier
- **ND filtere**
  Irradiation of the light whose irradiation intensity is attenuated (ND50% and etc.,)
- **Various sample stages**
  Stage for back electrode type solar cells, stage for DSC and etc., ・

Dimensions (unit:mm）

Approx. W700×D550×H450mm（excluding PC）

*Dimensions of the instrument will be different depending on the optional accessories.

**Specifications are subject to be changed without prior notice.

BUNKOUKEIKI CO., LTD.

URL http:// www.bunkoukeiki.co.jp/

Headquarters: 4-8 Takakura-cho, Hachioji-shi, Tokyo 192-0033, Japan Tel: +81-42-646-4123 Fax: +81-42-644-3881

Model BQE-100C

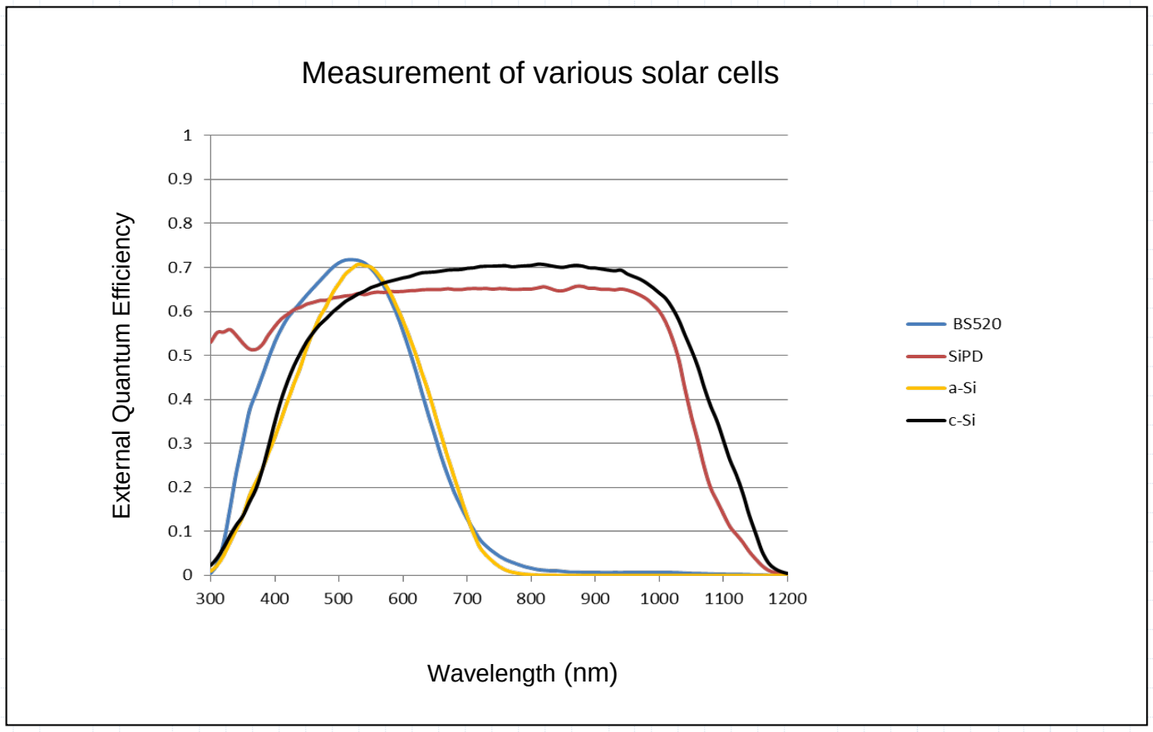
Spectral Response/Quantum Efficiency Measurement

- Spectral Response and Quantum Efficiency Measurement System conforming to Japanese Industrial Standard (JIS)
- Automatic calculation of short-circuit current density (Jsc)
- Low-cost compact design employing unique optics while maintaining excellent performance

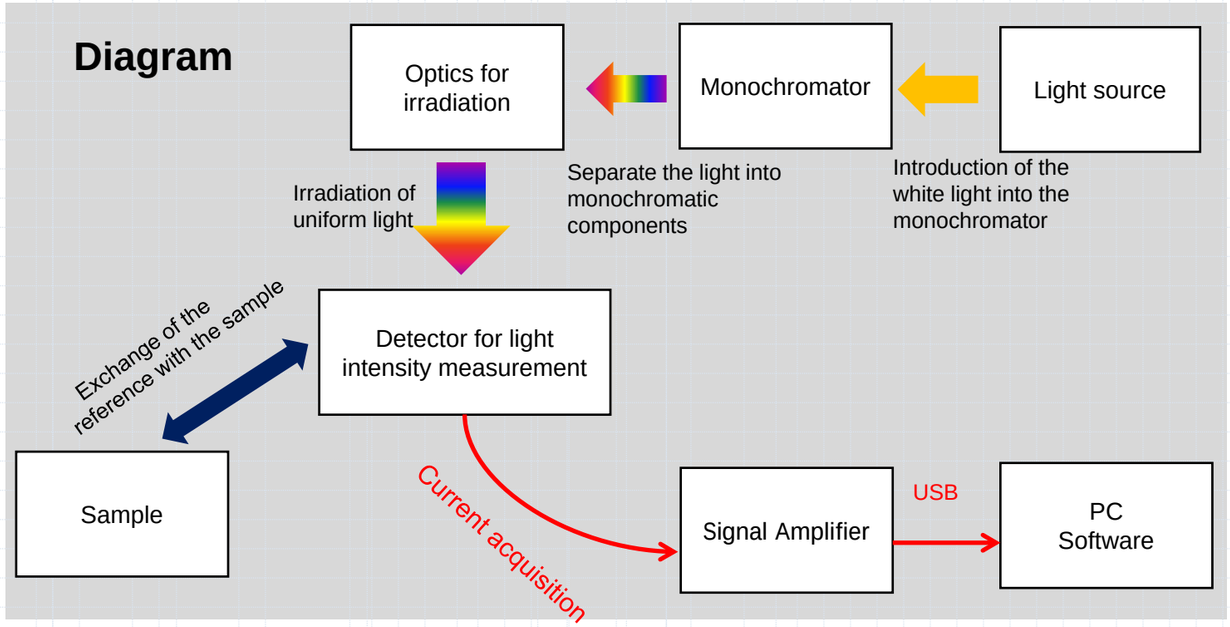
BUNKOUKEIKI 分光計器

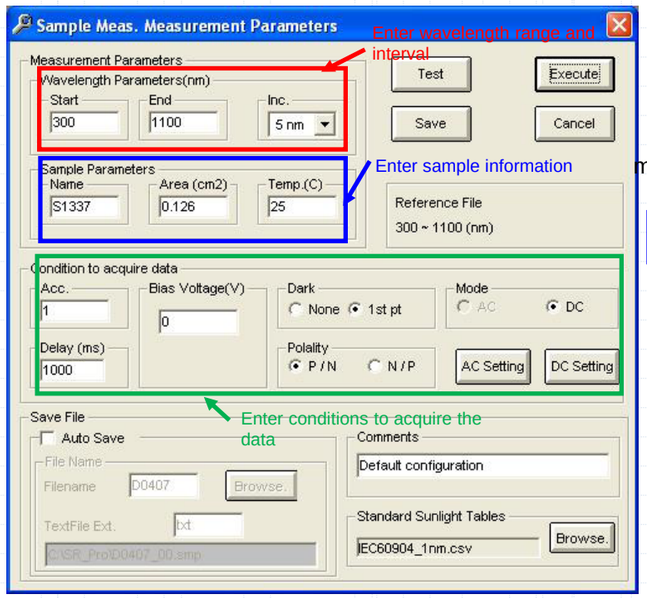
QE Measurement of Solar Cells

Generally I-V measurement by the solar simulators is considered one of the most suitable methods to evaluate solar cells. However, it is very difficult to judge accurately which materials are contributed to the data if the multiple materials are contained in the solar cells since the light source of the irradiation light is white light.
The BQE-100C Spectral Response/Quantum Efficiency Measurement System is capable to evaluate output performance at each wavelength, which is very suitable for the research and development of the materials for the solar cells.
Further, short-circuit current density (Jsc) can be obtained from the calculation of the spectral response spectra and reference sun light to make the measurement more accurate.

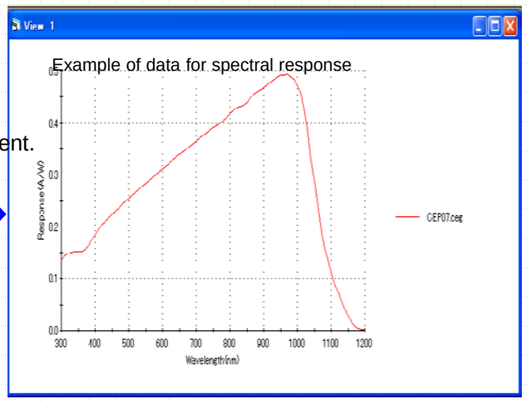


Diagram





Start measurement.



Conversion