SM-250 Hyper Monolight System



*Actual appearance of the instrument is black

Specifications

Measurement items Wavelength range

Light sourceXenon lamp 150WIrradiation area10x10mmWavelength purityVariable, ca.24nmIrradiation intensityMore than 5mW/cmIn-plane non uniformity±5% (550nm)Irradiation directionVertical, HorizontalMeasurement modeDCLight intensitySi photo diode (withmeasurementdata of spectral resp

SM-250 spectral response measurement procedure

① Measure photo current placing Si photodiode detector.

(2) Measure output of photo current of the sample. $I_{\text{S}}(\text{A})$

(3) Spectral response of Si photo diode is expressed as $SR_R(A/W)$. Spectral response of the sample SRR(A/W) is obtained through calculation between the files.

 $SR_S(A/W) = I_R(A) \times SR_R(A/W) / I_S(A)$

Absolute value of spectral response is obtained by inputting the area coefficient.

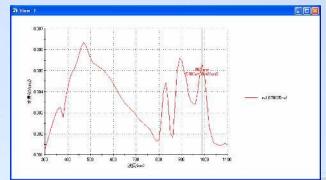
*Specifications and appearance of the system are subject to change without prior notice.

BUNKOUKEIKI CO., Ltd. URL http://www.bunkoukeiki.co.jp/

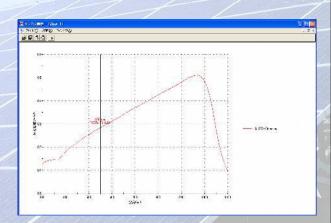
Head quarter & Factory: 4-8 Takakura-cho, Hachioji-shi, Tokyo, 192-0033, Japan, Tel: +81-42-626-4123 Tokyo branch: 1202 2-4-5 Iwamoto-cho, Chiyoda-ku, Tokyo, 101-0032 Tel: +81-3-3864-1615 East Japan branch: 3-3-7, Sakura, Tsukuba-shi, Ibaraki prefecture, 305-0003Tel: +81-29-857-7066 West Japan Branch: 3-24-5, Toyoshin, East Yodogawa-ku, Osaka-shi, 533-0014, Osaka-fuTel:+81-6-6323-4502

For Dye Sensitize/Organic Thin Film Solar Cells

The current value of the sample is measured based on the measurement of the irradiation intensity (mW/cm2) at each wavelength of the valuated Si photodiode, Using our dedicated software, spectral response or quantum efficiency of the various solar cells and opto electronic devices are automatically displayed. Our unique xenon lamp optics and high efficient monochromator enables the system to offer high intensity monochromatic light irradiation (5mW/cm2) . The SM-250 is the model suitable for measurement of the organic solar cells(dye sensitize/organic thin film



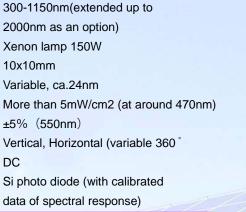
Measurement data of irradiation intensity



Spectral response measurement data



312, Sai Chambers, Near Santacruz Bus Depot, Santacruz (East), Mumbai – 400 055 Telephone: +91-22-6697 6816/67 Fax: +91-22-2610 9608 Email: sales@suntek-services.com Website: http://www.suntek-services.com



Spectra response, quantum efficiency

solar cells)