

S-9230

HINODE midi

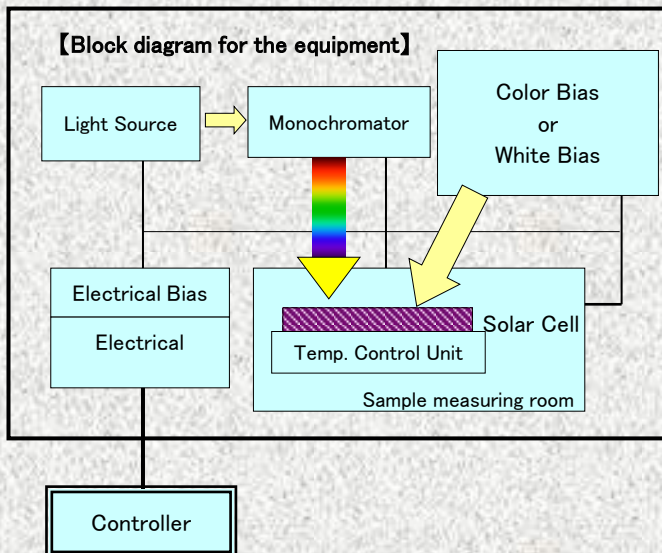
For Solar cell evaluation

It is full-function 25mm Beam Spectral response measuring system.

● Features

- Wide wavelength from 300 to 2000nm by using Xe/Halogen Lamp system.
- White/Color Bias comes standard component of the instrument.
- It can measure many kinds of cells, such as Silicon, III V – II IV and next generation of Multi-

● Outline of the equipment



Solar cell is irradiated with light (Xe/Halogen lamp). The light is changed into monochromatic light by spectrometer. And also, intensity and homogeneity are measured by calibrated detector. Spectral response curve is acquired by measuring current output of solar cells while solar cells is irradiated with the monochromatic light. When white bias light is used, lockinamp is used for the measuring.

For the multi-junction cells, it is possible to



※ Example of customized EIA rack type

● Specification

Model	HINODE midi / S-9230
Measuring item	Spectral response, Quantum Efficiency
Wavelength range	300 – 2000nm
Monochromatic beam size	25 × 25mm
Light source of the monochromatic light	Xenon and Halogen Lamp
Irradiation surface: uniformity	Less than ±2.5% (546nm)
Measuring mode	Without bias light (DC measuring), with bias light (AC measuring)
White bias	Approximate light source AM1.5
Color bias	It depends on the combination of Xenon lamp and Filter (Filter of the color bias is not included)
Sample measuring room	XY Pulse motor drive / Z Manual drive, Vacuum chuck for fixing sample Specimen cooling : Measuring stand with peltier effect for controlling temperature
Sample connection	Manual single probe
Software	Dedicated software for measuring
Controller	standard accessory <Windows 32bit version> Measuring program is already installed.
Size/weight	Main body : 1750(H) × 570(W) × 630(D) / Main body : 200kg
Power	AC100V (50/60Hz), 1.5KVA × 2
Operating temp.	20 – 30°C
Humidity	Below 80% RH or less (no condensation)

~ Spectral response measuring system "HINODE series" Lineup ~

S-9241 / HINODE mini 5



- Measuring wavelength range : 300~1150nm
- Monochromatic beam size : 5 × 5mm
- Monochromatic light lintensity : Above 5mW/cm²
- White bias
- Mechanism of the sample stage slide
- Temperature controlling unit

S-9250 / HINODE mini 10



- Measuring wavelength range : 300~1150nm
- Monochromatic beam size : 10 × 10mm
- Monochromatic light lintensity : Above 1mW/cm²
- White bias
- Temperature controlling unit

- The specifications and the outer shape would be changed without any notification.
- Color catalog and actual product may differ slightly in relation to print picture.

- For inquiries please contact

Soma SOMA OPTICS, LTD.

23-6 HIRAI, HINODE-MACHI, NISHITAMA-GUN,
TOKYO 190-0182 JAPAN
Phone: +81-42-597-3256 Fax: +81-42-597-3208
E-mail : sales@somaopt.co.jp
URL : http://www.somaopt.co.jp

[A sales agent]