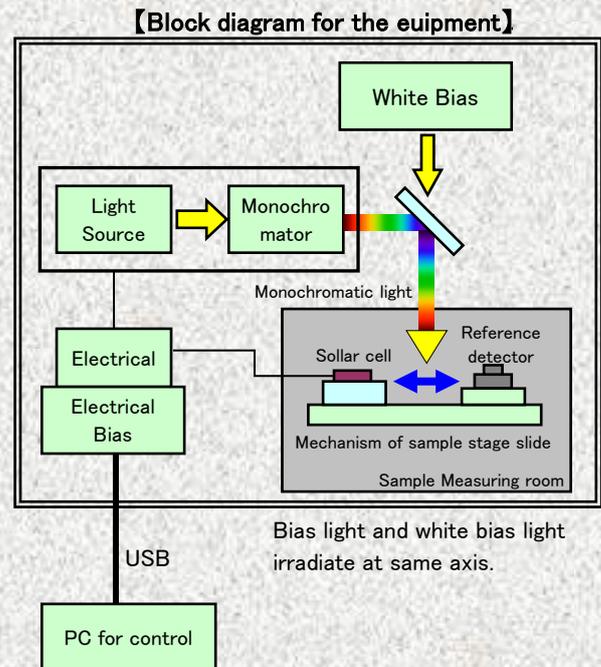


**For Solar cell evaluation**

It's a high irradiancy, space saving QE facility which development for DSC and OPV solar cell evaluation. It guarantees large specimen space.

For the specimen stage, we adopted transfer mechanism which is easy to adjust



**● Features**

- You could input most suitable parameter for DSC solar cell.
- Due to combination of high efficiency monochromatic, the irradiance of monochromatic light could achieves above  $5\text{mW}/\text{cm}^2$  (@470nm), that will be most suitable. irradiance for DSC,OPV solar cell measurement.
- When white bias light irradiates at same axis with monochromatic light, both of 2 lights makes better uniformity in irradiation area.
- It is possible to calibrate the intensity which is used by reference solar cell.  
 (Factory installed option)
- It is possible to measuring high speed (90 seconds).  
 (When DC is measured in 300~1150nm seconds and 10 pitches)
- Wavelength range 300~1150nm
- Compact and reasonable price

## ● Specification

Model	HINODE mini 5 / S-9241
Measuring item	Spectral response, Quantum efficiency (IPCE)
Wavelength range	300~1150nm
Monochromatic beam size	5 × 5mm
Monochromatic light intensity	Above 5mW/cm <sup>2</sup> (@470nm)
Light source of monochromatic light	Xenon lamp
Life span of monochromatic light	1000 hours
Irradiation surface uniformity	Less than ±2.5% (546nm)
Measuring mode	Without white bias (DC measurement, With white bias (AC1 measurement, AC2 measurement) AC measurement by ON/OFF the shutter (AC1 measurement) : 0.1Hz ~ 0.01Hz AC measurement by chopper rotation (AC2 measurement) : 1Hz (Slow mode), 80Hz (High speed mode) are can be selected.
White bias	AM1.5 approximate light source
Life span of white bias	1000 hours
The irradiating direction of monochromatic light and bias light	A vertical irradiation (epi-illumination by same axis)
Sample measuring room	Sample stage movable stage : XY : ±15mm, Z : 0mm ~ -50mm × 70mm Cooling the sample : Measuring stand with peltier component for controlling the temperature
Sample contact	Alligator Clip
Software	Special software for measurement
Control PC	Standard accessory <Windows 32bit version>, special software for measurement is installed
Interface	USB 2.0
Size./ Weight	1050 (H) × 660 (W) × 610 (D) / 150kg
Power	AC100V (50/60Hz)
Operating temp.	20 - 30°C
Operation Humidity	Below 80% RH or less (no condensation)

## ● Standard Components

- Main body of the Spectrometer
- User Instruction
- Software, PC for controlling
- Cable for power supply, Cable for reading signals
- The cable for adjusting the intensity of white bias
- USB cable
- Reference detector and reference cell (factory installed option)
- Cup holder of the mask (5mm square)
- Alligator Clip
- Inspection Chart

## ● Options

- Cup holder of the mask : 5mm square
- Cup holder of the mask : 4mm square
- Cup holder of the mask : 3mm square
- Cup holder of the mask : 2mm square

- 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

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