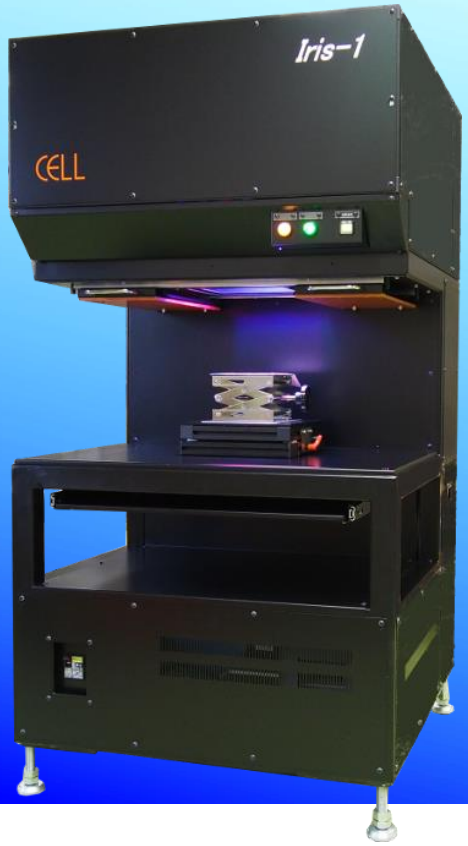
Iris

(All LED simulator/illuminator)



Iris-1 : □100mm

Iris-2 : □200mm

FEATURE

- LED based optical engine assemblies synthesize an integrated multi-colored light flux of illuminations with a spectral distribution demanded and uniformity.

- The optical engine assemblies enable highly flexible illumination synthesis. The illuminator/simulator provides arbitral spectral distributions, such as AM1.5 radiation, ambient light, or any others.

- Efficient power/light conversion of the state-of-the arts LEDs guarantees low energy consumption, and long lives of the light sources. It never produce infrared radiation thereby no sample cooling is in need.

OVERVIEW

This equipment provides the closest spectral match to solar spectra or any other light ambient source available around. For the most demanding applications we have developed the Iris series that meet all industry standards for testing of PV materials. A specific design based on all LED spectrum synthesis construction offers a highly flexible spectrum/radiance modeling and simulation under efficient power consumption.

SPECIFICATIONS

1. Irradiation light source unit（Combined/Lighting module、LED）

LED use	400-800nm：28 kinds of LED　400-1100nm：34 kinds of LED
Spectral characteristics	Within 10%±AM1.5G spectral characteristics similar to that 400～800nm/400～1100nm（Class-A）
	（However irradiance put 100mW/cm2）
Irradiation area	□100mm effective
Irradiation intensity	48mW/cm2（400-800 Integration irradiance）
	75mW/cm2（400-1100 Integration irradiance）
Irradiation stability	Class-A　Within ±0.5%/h（However, 30 minutes after lighting）
Uniformity	Within ±2～5%（Within the effective irradiation area 200/100mm square）
	Within ±1～2%（Within the effective irradiation area 50/20mm square）
Irradiation direction	Downward vertical irradiation
Irradiation distance	200mm
Cooling Method	Air cooling

2. Spectral characteristics（400-1100nm）

3. Power supply unit source

Circuit power supply	DC24V
Circuit method	Constant current method

4. General Specifications

Operating Temperature	0℃ to +40℃
Storage Temperature	-10℃ to +60℃
Voltage Range of Power Source	IRIS-1:AC 100V ±5%　50/60Hz　IRIS-2:AC 200V ±5%　50/60Hz
Power consumption	IRIS-1: 1200~1500VA　IRIS-2: 4000VA
Dimensions	IRIS-1: 800(W)×1725(H)×850(D)mm
	IRIS-2: 1300(W)×1800(H)×1500(D)mm
Weight	IRIS-1: 100Kg　IRIS-2: 600Kg

CAUTION	DON'T LOOK AT THE LED BEAM DIRECTLY! The Lighted LED emits strong light. Direct entry of the beam to eyes is dangerous.

* Specifications and design are subject to change without notice.

Manufacturer

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