UV IRRADIANCE METER for UV-LED

UV-LED-01 / UV-LED-CS01

Compatible with mainstream high-power UV-LEDs.
Compatible with a wide range of UV-LEDs in the UVA band.
Flat spectral response characteristics.
The first UV irradiance meter that compatible with JCSS calibration (ISO/IEC 17025 accredited calibration)

Sensor

Front   Back

345   395
355   405
365   415
375   425
385   435

(Actual size)

<<JCSS calibration support>>

This instrument is compatible with our international MRA-compliant JCSS calibration service, ensuring traceability and reliable measurements in compliance with quality standards.

ilac-MRA IAJapan
Accredited Calibration

JCSS
JCSS 0351

Our JCSS calibration laboratory is an accredited calibration service provider for international MRA. JCSS 0351 is the accreditation number of JCSS calibration laboratory.

<<Calibration Site>>
· Calibration for each measurement wavelength for high accuracy measurement.
· Dedicated calibration for UV-LED that enables highly accurate measurements.
· Calibration system traceable to national standards.
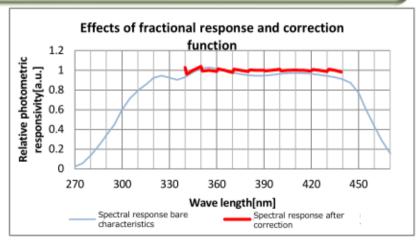
ORC® UV IRRADIANCE METER for UV-LED — UV-LED-01 UV-LED-CS01

■ Specification

M o d e l	UV-LED-01 / UV-LED-CS01
Wavelength range	345 nm ~ 435 nm
Measurable range 【Irradiance】	$0.1\ \text{mW/cm}^2 \sim 20.00\ \text{W/cm}^2$
Measurable range 【Radiant exposure】	$0.1\ \text{mJ/cm}^2 \sim 9{,}999\ \text{J/cm}^2$
Ambient operating temperature	0 ℃ ~ 60 ℃
Adjusting accuracy	±1.5% (Compared to ORC standard model)
Power supply	Dry cell AA battery 2 pcs or AC100~240V
Control signal	RS-232C
Recorder output	DC 2 V in full scale
Sensor cord length	1.5 m
Sensor model	UV-LED-CS01
Sensor diameter	Approximately Φ 1 mm
Dimensions	UV-LED-01) W71×D29×H151 mm UV-LED-CS01) W20×D10×H35 mm
Weight	UV-LED-01) 130 g UV-LED-CS01) 57 g

■ Relative spectral responsivity （Example ）

<<Calibration Site>>
By selecting the wavelength that matches the UV-LED to be measured, the spectral response can be flattened and the measurement accuracy can be improved.
※Calibration center wavelengths are available in 10 nm increments from 345 nm to 435 nm.

Effects of fractional response and correction function

Relative photometric responsivity[a.u.] vs Wave length[nm]

— Spectral response bare characteristics
— Spectral response after correction

■ Sensor size

Sensor front side
0.5
Photosensitive area
Cross section of photosensitive area

Photosensor
S/N:KA00000