



# Multifunctional Irradiance Radiometer

The multifunctional irradiance radiometer is a brand-new hand-held instrument produced. It includes a hand-held irradiance radiometer (main body) and one or more special probes. When using, select the corresponding probe and insert the irradiance radiometer according to the required calibration object, and select the lamp or filter type in the radiometer display screen. Then place the probe in the calibrated instrument and start the aging test chamber, and calibrate the irradiance in the aging test chamber by reading the value displayed on the irradiance radiometer. On the other hand, when the probe is inserted into the irradiance radiometer, its display screen will automatically read and display the factory number and calibration date of the probe, so that the user can calibrate the probe in time.



The multifunctional irradiance radiometer can be used to calibrate the irradiance of all aging test chambers (including xenon lamps and fluorescent ultraviolet) produced by Modern. Compared with other irradiance radiometer on the market, the multifunctional irradiance radiometer has the following characteristics:

- ◆ After inserting the calibration probe, the main body automatically recognizes the type of the probe and its relevant parameters.
- ◆ Xenon lamp calibration probe, which can simultaneously calibrate the irradiance of air-cooled and water-cooled xenon lamps and different filters.

- ◆ UV calibration probe can simultaneously calibrate the irradiance of different types of fluorescent ultraviolet lamps (UVA / UVB).
- ◆ 5-inch capacitive LCD touch screen with HD resolution of 1080×720.
- ◆ The modular irradiance probe is adopted, which is lower in cost than the traditional instrument with integrated probe and host.
- ◆ After the validity period of the self-identification probe expires, the user can choose to recalibrate or replace it.
- ◆ Built in Chinese and English languages for users to switch.

## Technical Specification

Range	0.00~2.00W/m <sup>2</sup> (340nm) 0.00~4.00W/m <sup>2</sup> (420nm) 0~300W/m <sup>2</sup> (TUV/300nm~4400nm) 0.00~2.00W/m <sup>2</sup> (UVA&UVB)
Irradiance error	±10%
Recommended calibration cycle of probe	one year
Probe temperature drift	±0.02%/°C
Operating environment	0~50°C; 10%RH~90%RH
Maximum working temperature of probe	70°C
Main body size	143mm×75mm×20mm
Net weight (main body and probe)	380g

## Ordering information

Product Ref	Description
XD-21-8118/S	Multifunctional Ultraviolet Irradiance Radiometer (UVA&UVB)
XD-21-8140/S	Multifunctional Xenon Lamp Irradiance Radiometer (340nm)
XD-21-8141/S	Multifunctional Xenon Lamp Irradiance Radiometer (420nm)
XD-21-8142/S	Multifunctional Xenon Lamp Irradiance Radiometer (300nm~400nm)
XD-21-8134	300nm~800nm Xenon Lamp Irradiance Calibration Probe
XD-21-8136	340nm Xenon Lamp Irradiance Calibration Probe
XD-21-8137	420nm Xenon Lamp Irradiance Calibration Probe
XD-21-8138	300nm~400nm Xenon Lamp Irradiance Calibration Probe
XD-21-8139	UVA&UVB Ultraviolet Irradiance Calibration Probe