

UV Light Meter UVA/UVB/UVC #850031



Professional UVA/UVB UVC Light Meter provides accurate and reliable UV light measurement with comprehensive data logging capabilities.

The UV Light Meter UVA/UVB/UVC delivers precise measurement of UVA and UVC settings. Its integrated Type K/J thermocouple thermometer extends functionality, enabling temperature readings alongside UV measurements. This combination supports comprehensive data logging and reliable results for professional use.

- Real-Time Data Logger**
 Saves measuring data along with time information (year, month, date, hour, minute, second) into the SD memory card, enabling easy download to Excel for further data analysis without extra software.
- Professional UVA & UVC Measurement**
 Measures both UVA (365 nm) and UVC (254 nm) irradiance with high accuracy and reliability.
- Dual Measurement Ranges**
 Offers two measurement ranges of 2 mW/cm² and 20 mW/cm², providing flexibility for different applications.
- User-Friendly Design**
 Features a large LCD with green backlight for easy reading, data hold function, and memory recall for maximum and minimum values. The separate UVA and UVC light probes allow for optimal positioning.
- Advanced Connectivity**
 Includes RS232/USB computer interface for data output, enhancing data management and integration with other systems.
- Additional Thermometer Functionality**
 Supports Type K and Type J thermocouples for temperature measurement, providing a wide range of applications.



Advanced Features

- Professional UVA/UVB/UVC Measurement**
- Measures UVA and UVC irradiance with high accuracy and reliability.**
- Real-Time Data Logging**
 Records data with time-stamp information for detailed analysis.
- Zero Adjustment**
 Easy zero offset using the push button.
- Microprocessor Circuit**
 Insures high accuracy and reliability with special functions.
- RS232/USB Interface**
 Enhances data management and integration with computer systems.



- Dual Functionality**
 Supports both UVA and UVC light measurement and Type K/J thermocouple temperature measurement.



Specifications

FEATURES

* UVA, UVC light measurement in one meter.
* Long wave 365 nm ultra-violet irradiance measurement. Professional UVA light meter, used to measure the UVA irradiation value under the UVA light (black light) source.
* Short wave 254 nm ultra-violet irradiance measurement. Professional UVC light meter, used to measure the UVC irradiation value under the UVC light source.
* Two ranges : 2 mW/cm ² , 20 mW/cm ² .
* Exclusive UV sensor structure with metallic housing case.
* UV L Sensor with cosine correction filter.
* UV function build Zero button.
* Application for the UV light measurement : Monitoring blue light radiation hazards in welding, UV sterilization , Graphic arts, Photochemical matching, UV EPROM erasure, Photoresist exposure, Curing of inks, adhesives and coatings.
* Microprocessor circuit provides high reliability and durability.
* Separate UV LIGHT probe allows user to measure the UV light at an optimum position.
* Type K, Type J thermocouple thermometer.
* Real time SD memory card Datalogger, it Built-in Clock and Calendar, real time data recorder , sampling time set from 1 second to 3600 seconds.
* Manual datalogger is available (set the sampling time to 0), during execute the manual datalogger function, it can set the different position (location) No. (position 1 to position 99).
* Innovation and easy operation, computer is not need to setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information (year/month/date/ hour/minute/second) to the Excel directly, then user can make the further data or graphic analysis by themselves.
* SD card capacity : 1 GB to 16 GB.
* LCD with green light backlight, easy reading.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Microcomputer circuit, high accuracy.
* Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC computer interface.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).
Measurement	UV Light : UVA, UVC Type K/J thermometer
UVA, UVC selection	Select by pushin the front button.
UV Sensor spectrum cover range	UVA : 260 nm to 390 nm. UVC : 200 nm to 280 nm.
UV sensor structure	The exclusive UV photo sensor with the cosine correction filter.
UV light zero adjustment	By push button.

Memory with Recall	Records Maximum & Minimum reading with recall.
Datalogger Sampling Time Setting range	Auto 1 second to 3600 seconds @ Sampling time can set to 1 second, but memory data may loss. Manual Push the data logger button once will save data one time. @ Set the sampling time to 0 second. @ Manual mode, can also select the 1 to 99 position (Location) no.
Memory Card	SD memory card. 1 GB to 16 GB.
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Auto power OFF management
Temperature Compensation	Automatic temp. compensation for the type K/J thermometer.
Advanced setting	* Set beep Sound ON/OFF * Set thermometer type to Type K or Type J * Set temperature unit to °C or °F * Set sampling time * SD memory card Format
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Operating Temperature	0 to 50 °C .
Operating Humidity	Less than 85% R.H.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional).
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 6.5 mA. When SD card save the data but and LCD Backlight is OFF) : Approx. DC 30 mA. * At LCD backlight on, the power consumption will increase approx. 16 mA.
Weight	Meter 351 g. UVA probe 100 g. UVC probe 103 g.
	Meter 177 x 68 x 45 mm UVA probe Head 45 mm dia x 32 mm Handle 125 x 24 mm dia. UVC probe 38 mm DIA. x 25 mm
Accessories Included	* Instruction manual.....1 PC * UVA light sensor.....1 PC * UVC light sensor.....1 PC * Hard carrying case, CA-06.....1 PC

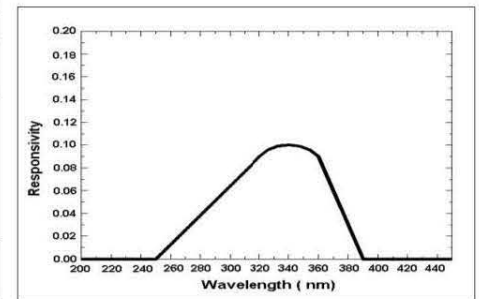
Optional Accessories	* SD Card (4 GB) * Type K thermocouple probe. TP-01, TO-02A, TP-03, TP-04, TP-05 * AC to DC 9V adapter. * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-E802
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ELECTRICAL SPECIFICATIONS (23± 5 °C)

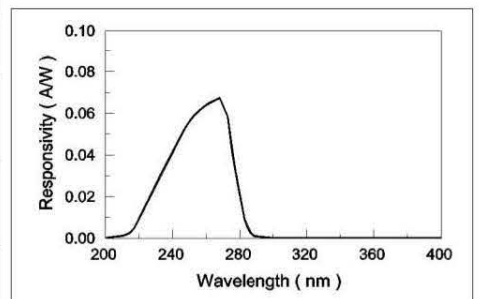
UV Light (UVA, UVC)

Measurement ranges & resolution	Range 1 : 2 mW/cm ² : 1.999 mW/cm ² x 0.001 mW/cm ² Range 2 : 20 mW/cm ² : 19.99 mW/cm ² x 0.01 mW/cm ²
Accuracy	± (4 % FS + 2 dgt). FS : full scale * UVA Calibration is executed under the UVA light & and compare with the standard UVA light meter. * UVC Calibration is executed under the UVC light & and compare with the standard UVC light meter.

UVA sensor spectrum



UVC sensor spectrum



Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
Type J	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)
Type K	0.1 °C	-50.0 to 1200.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
Type J	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)