

## Ultraviolet UV Meter เครื่องวัดแสงยูวี 850009

Light Meter - Measures Ultraviolet Light UV

### UV LIGHT METERS 850009 and 850010



- Measure damaging UV (ultraviolet) light in the environment and museums.
- UV degradation studies in the pharmaceutical, cosmetic, semiconductor, printing, window tinting, and other industries.
- Laboratory chromatography, electrophoresis and forensics.
- Test UV sterilization and dermatology lamps in hospitals.

UV light intensity appears on the large backlit display in either  $\mu\text{W}$  or  $\text{mW}/\text{cm}^2$  while the small lower display simultaneously shows minimum, maximum, average and recorded data. Up to 20 data points can be recorded automatically at a variety of intervals. Features zero point reset, hold, and indicates when the battery is low. Comes in a protective hard foam lined carrying case complete with a UV probe, tripod screw, magnetic mount and a 9V battery. Model 850010 measures short wave UV-C light for applications such as UV light fume hoods, UV sterilization, industrial glass and non-destructive testing. Model 850009 measures long and medium wave UV-A/B for applications such as forensics, chromatography, electrophoresis and dermatology. Weight: 4.4 oz (135 g). Dim: 6" x 2" x 1½" (145 x 55 x 40 mm).

SPECIFICATIONS					
Model:	Wavelength:	Calibration point:	UV Range:	Resolution:	Accuracy:
850009	280 ~ 400 nm	365 nm	1 $\mu\text{W}/\text{cm}^2$ ~	1 $\mu\text{W}$ and	$\pm 4\% \pm 1$ digit (@23 $\pm 5^\circ\text{C}$ )
850010	220 ~ 275 nm	254 nm	40.00 $\text{mW}/\text{cm}^2$	0.01 $\text{mW}/\text{cm}^2$	



## **UVA UVC METER - INNOVATIVE SD CARD DATALOGGER YK-37UVSD**

Long wave 365 nm ultra-violet irradiance measurement (UVA)

Short wave 254 nm ultra-violet irradiance measurement (UVC)

SD Card Data logger (1 to 16GB)

Data Hold function

Data record function (Max./Min.)

Type K/J Thermocouple measurement

Zero adjustment for UV light

Exclusive UV sensor structure with metallic housing case.

UV Sensor with cosine correction filter

UV meter with zero function

### **UVA UVC meter, APPLICATION:**

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.

Separate UV LIGHT probe allows user to measure the UV light at an optimum position.

YK-37UVSD UV meter also includes Type K/J thermocouple thermometer function.

### **UVA UVC METER with 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.

UVA UVC METER, Manual datalogger is also available, set the sampling time to 0, during execute the manual datalogger function, it can set the different position No. (1 to 99 position), smart UVA and UVC data logging with SD card.

Innovation and easy operation, computer is not needed to setup extra software, after execute datalogger, just take away the SD card from the UV meter and plug in the SD card into the computer, it can download the all the UV measured value with the time and position information to EXCEL file directly, then user can make the further data or graphic analysis by themselves.

### **UVA UVC meter YK-37UVSD specification**

UV sensor spectrum cover range	240 nm to 390 nm	
UV sensor structure	Exclusive UV photo sensor with cosine correction filter	
Range 1	Range 2	
Range	1.999 mW/cm <sup>2</sup>	19.99 mW/cm <sup>2</sup>
Resolution	0.001 mW/cm <sup>2</sup>	0.01 mW/cm <sup>2</sup>
Accuracy	± (4% FS +2 d)	± (4% FS +2 d)
Data logger	Auto : 1 to 3600 second Manual: 1 to 99 position (location) no.	
Power Supply	DC 1.5V x 6 or adapter (optional) Meter: 177x68x45 (351g)	
Dimension	UVA probe: sensor 45 mm dia x 32 mm/ handle 25 mm dia x 125 mm (100g) UVC probe: 38 mm dia x 25 mm (103g)	
Accessories Included	UVA probe, UVC probe	
Optional accessories	Type K Thermocouple Adapter	

What is UV radiation?

The sun's energy is recognised as travelling in wave-like patterns which may differ in terms of both their frequency and length. UV and Gamma rays are thus the form in which the highest frequency and shortest wave-length energy from the sun reaches the earth. These UV rays come in three spectrums including UVA, UVB and UVC, each of which have different wave lengths and frequency levels. UV rays are more harmful in certain locations and at certain times of the year. For example, those living close to the equator or at high altitudes are more at risk with UV rays also being more harmful during the summer months.