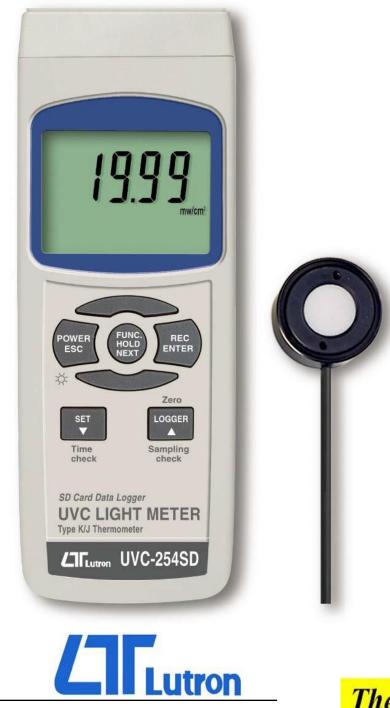
SD Card, real time data recorder, Patented **+TYPE K/J Thermometer UVC LIGHT METER**

Model: UVC-254SD

ISO-9001, CE, IEC1010

www.yalab.com.tw

02-2389-0101









The Art of Measurement

UVC LIGHT METER

Model : UVC-254SD

FEATURE

* Professional UVC light meter.

* Short wave 254 nm ultra-violet irradiance measurement. Professional UVC light meter, used to measure the UVCirradiation value under the UVC light source.

* Two ranges : 2 mW/cm², 20 mW/cm².

* Exclusive UVC sensor structure with metallic housing case.

* UVC LSensor with cosine correction filter.

* It build the Zero button.

* Microprocessor circuit provides high reliability and durability.

* Separate UVC LIGHT probe allows user to measure the UVC 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 (optional).

* RS232/USB PC computer interface.

GENERAL SPECIFICATION

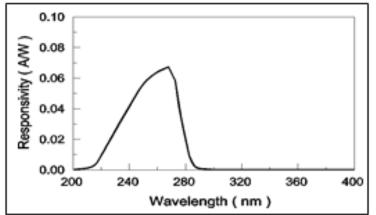
| OLIVEINAL SI LEII ICATION | | | |
|---------------------------|---|---|--|
| Circuit | Custom one-chip of microprocessor LSI circuit. | | |
| Display | LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF). | | |
| Measurement | UVC Light . Type K/J thermometer . | | |
| UV Sensor spectrum | 260 nm to 390 nm. | | |
| | * Refer to the following attached spectrum diagram. | | |
| UVC 'sensor structure | The exclusive UVC photo sensor with the cosine correction filter. | | |
| UVC light zero adjustment | By push button. | | |
| Memory with Recall | Records Maximum & Minimum reading with recall. | | |
| Datalogger Sampling Time | Auto | 1 second to 3600 seconds | |
| Setting range | | @ 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 | | | | |
| | * Set beep Sound ON/OFF | | | | |
| | * Set thermometer type to Type K or Type J | | | | |
| | st Set temperature unit to $^\circ\!\mathrm{C}$ or $^\circ\!\mathrm{F}$ | | | | |
| | * Set sampling time | | | | |
| | * SD memory card Format | | | | |
| Temperature Compensation | Automatic temp. compensation for the type K/J thermometer. | | | | |
| 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 ℃. | | | | |
| 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. | | | | |
| | * If LCD backlight on, the power | | | | |
| | consumption will increase approx. 16 mA. | | | | |
| Weight | Meter | 351 g. | | | |
| | UVC probe | 103 g. | | | |
| Size | Meter | 177 x 68 x 45 mm | | | |
| | UVC probe | 38 mm DIA. x 25 mm | | | |
| Accessories Included | * Instruction manual. 1 PC | | | | |
| | * UVC light sensor. 1 PC | | | | |
| | * Hard carrying case, CA-06 1 PC | | | | |
| Optional Accessories | SD Card (2 GB) | | | | |
| | Type K thermocouple probe. 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. | | | | |

ELECTRICAL SPECIFICATIONS (23 \pm 5 $^{\circ}$ C)

| UVC Light | | |
|----------------------|--|--|
| Measurement ranges & | Range 1 : 2 mW/cm^2 : 1.999 mW/cm^2 x 0.001 mW/cm^2 | |
| resolution | Range 2 : 20 mW/cm^2 : 19.99 mW/cm^2 x 0.01 mW/cm^2 | |
| Accuracy | ± (6 % FS + 2 dgt). FS : full scale | |
| | * UVC Calibration is executed under the UVC light & and compare with the | |
| | standard UVC light meter. | |

UVC SENSOR SPECTRUM



Type K/J thermometer

| Sensor Type | Resolution | Range | Accuracy |
|-------------|---------------|------------------------------------|--|
| Туре К | 0.1 °C | -50.0 to 1300.0 °C | ±(0.4 % + 0.5 °C) |
| | | -50.1 to -100.0 °C | ± (0.4 % + 1 °C) |
| | 0.1 °F | -58.0 to 2372.0 $^\circ\mathrm{F}$ | ± (0.4 % + 1 °F) |
| | | -58.1 to -148.0 $^\circ\mathrm{F}$ | \pm (0.4 % + 1.8 $^{\circ}\mathrm{F}$) |
| Туре Ј | 0.1 °C | -50.0 to 1200.0 °C | ±(0.4%+0.5°C) |
| | | -50.1 to -100.0 °C | ±(0.4%+1°C) |
| | 0.1 °F | -58.0 to 2192.0 $^\circ\mathrm{F}$ | ± (0.4 % + 1 °F) |
| | | -58.1 to -148.0 $^\circ\mathrm{F}$ | ± (0.4 % + 1.8 $^{\circ}\mathrm{F}$) |

PATENT

CHINA : ZL2008 2 0189918.5 、 ZL2008 2 0189917.0 Germany : Nr. 20 2008 016 337.4 JAPAN : 3151214 TAIWAN: M 358970 、 M 359043 U.S.A.:Pending

* Appearance and specifications listed in this brochure are subject to change without notice.

1109-UVC254SD

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