

UVA / UVB LIGHT METER

850030

INSTRUCTION MANUAL

SPER
SCIENTIFIC

Introduction:

Thank you for purchasing the Sper Scientific 850030 UVA / UVB Light Meter. To ensure that you can get the most from it, we recommend you read and follow this manual carefully before use. The UV meter has been designed, manufactured, and delivered under strict quality control criteria.

This meter has the following characteristics:

- Easy to Use
- Auto power off function
- Measurement range fully covers UVA & UVB
- MIN/MAX function built-in
- Large backlight LCD display

Precautions on handling:

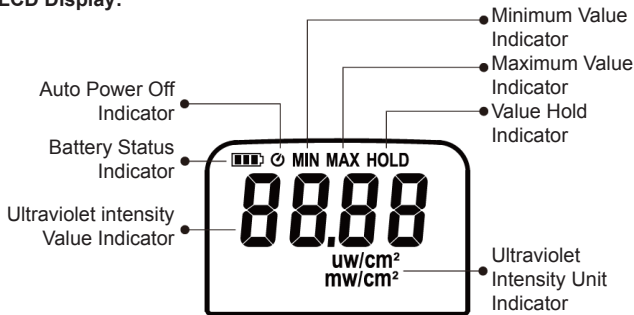
Handle this meter with care. Do not drop or hit the meter on a hard object. Please avoid using the meter in a dusty, dirty, salt-air or areas with corrosive gases. If dirt or dust adhere to the surface of the light detecting surface, this will decrease the accuracy of the measuring value. To clean the surface, use a soft and dry cloth to wipe it clean.

Maintenance:

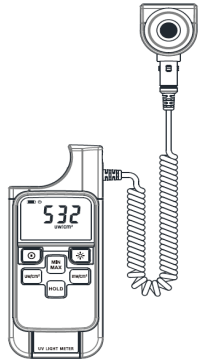
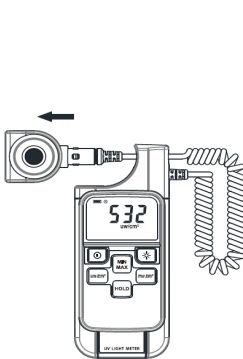
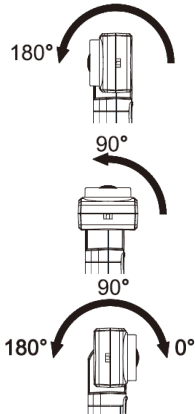
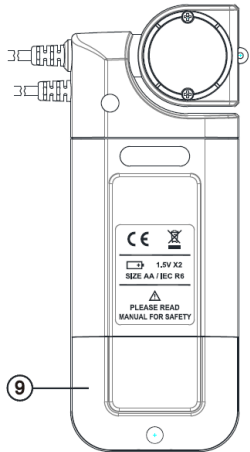
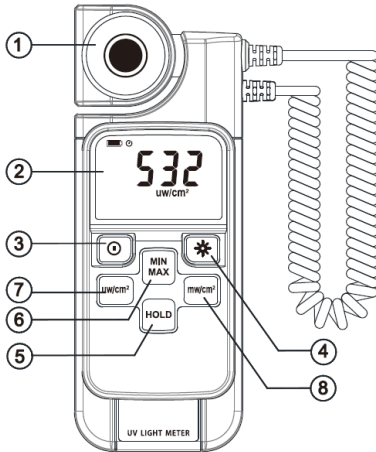
Cleaning - Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this instrument.

Note: When in storage, please keep the Relative Humidity under 60%.

LCD Display:



Name of Parts and Position:





1) Light Sensing Probe:

The probe can be fixed on the meter in parallel or perpendicular to the LCD surface. The probe may also be detached from the unit to fit the measuring requirement.

2) LCD Display:

2.2" backlit LCD display.

3) Power Button:

Push this button to turn on the meter. Push and hold this button for 3 seconds to turn off. The unit will automatically turn itself off after 30 minutes if there is no key operation. To disable the automatic power off function, turn the meter off, push and keep holding the  button, then push the power button to turn on. The  will disappear from the LCD to confirm its operation.

4) Backlight (Power) button:

Push this button to turn on and off the LCD backlight. The backlight will automatically turn off after 30 seconds to save battery power.

5) HOLD button:

Push this button to hold the present reading and keep it on the LCD display. To release the data held operation, press the button again.

6) Max Min button:

Push this button to set the meter enter the MAX/MIN mode. By pushing this button, the user may swap the LCD reading among maximum, minimum and current reading. Push and hold this key for 3 seconds to exit the MIN/MAX mode.

7) uw/cm² selector button:

To switch the measuring range to lower range with unit uw/cm².

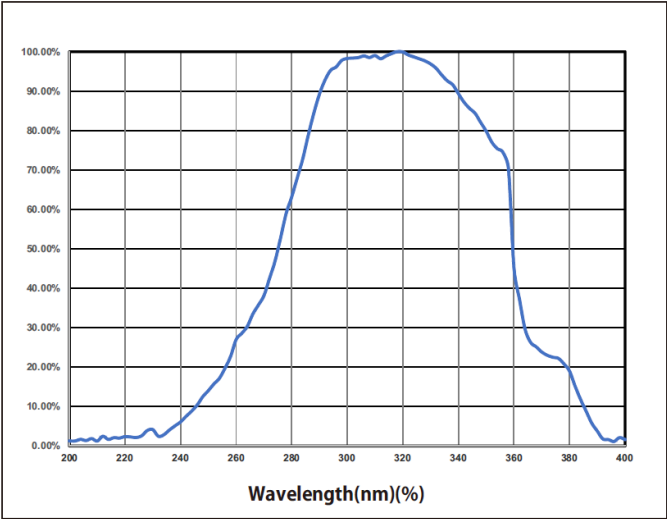
8) mw/cm² selector button:

To switch the measuring range to higher range with unit mw/cm².

9) Battery Cover:

When battery level indicator shows less than one bar, the user should replace the battery. The battery cover can be removed with a Philips screw driver and the two AA batteries can be replaced.

Characteristics of Sensor spectrum response:



Specifications:

Measuring range:	Low range: 1 to 3999 uw/cm ² High range: 0.01 to 39.99 mw/cm ²
Sensitivity Wavelength Region:	260 nm ~ 395 nm
Wavelength for Calibration:	365 nm
Accuracy:	±3% rdg ±5 dgts
Temperature characteristics:	±0.1% / °C(away from 25°C)
Response time:	0.5 sec
Light detector:	UV Photodiode
Over range:	"-OL-" display
Power supply:	1.5V type AA battery x2
Power life:	Approx. 80 hours
Operation temperature:	0°C ~ 40°C (32°F ~ 104°F)
Operation humidity:	0 ~ 80% RH
Storage Temperature:	-10 to 50°C (14 to 122°F)
Storage Humidity:	0 to 60% RH
Dimension / Weight:	169(L)×63(W)×37(H)mm (6.7"×2.5"×1.5")
Weight:	Approx. 210g
Accessories:	Battery, instruction manual, carrying case.

Safety Information:

Read the following safety information carefully before attempting to operate or service a meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be imparted.

Environmental Conditions:

- Ambient Temperature: 0 to 40°C (- 20 to 160°F)
- Maximum relative humidity 70%
- Altitude up to 2000 meters

Explanation of Symbols:

CE - Comply with EMC. When servicing, use only specified replacement parts.

Warranty

Sper Scientific warrants this product against defects in materials and workmanship for a period of one (1) year from the date of purchase, and agrees to repair or replace any defective unit without charge. If your model has since been discontinued, an equivalent Sper Scientific product will be substituted if available. This warranty does not cover probes, batteries, battery leakage, or damage resulting from accident, tampering, misuse, or abuse of the product. Opening the meter to expose its electronics will break the waterproof seal and void the warranty.

To obtain warranty service, ship the unit postage prepaid to:

SPER SCIENTIFIC LTD.
8281 East Evans Road, Suite #103
Scottsdale, AZ 85260

The defective unit must be accompanied by a description of the problem and your return address. Register your product online at www.sperwarranty.com within 10 days of purchase.