

BLACK LIGHT ACCESSORIES

DIGITAL UV BLACK LIGHT METER



Thank you for purchasing this Digital UV Black Light Meter. Read through this instruction manual before operating the unit.

Please also store and retain this instruction manual for future reference.

MAGNAFLUX

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STORAGE FOR SENSOR

The UV sensor is an extremely precise detection instrument. When not in use, store it in a dry environment. Please keep the manual for future reference.

DANGER WHEN USING THE EQUIPMENT

ATTENTION



Improper use may endanger the health of third parties! It may also result in damage to the equipment or other material damage.

FEATURES:

The UV-Meter is a mobile, hand-held device for measuring UV radiation.

- Socket for tripod mounting
- High and Low measurements range in a unit mW/cm^2 or $\mu\text{W}/\text{cm}^2$
- Backlit LCD and 4 Digits dual display
- 20 points memory
- Low battery indication
- Operation with "9V" battery
- Magnetic mount

SAFETY SYMBOLS



Indicates CE conformity



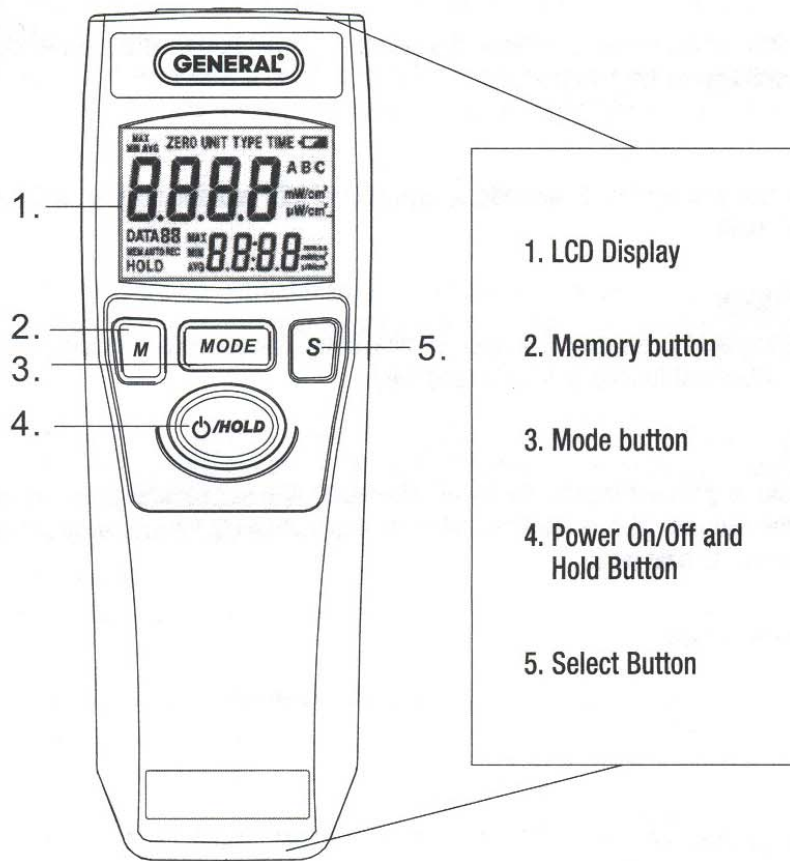
The device may not be disposed of with the trash. It promotes re-use recycling and other forms of recovery of used materials and components, and improves the environmental performance of all operators (manufacturers, traders and treatment facilities) involved in the life cycle of products. Dispose of the product appropriately in accordance with the regulations in force in your Country.

SPECIFICATIONS:

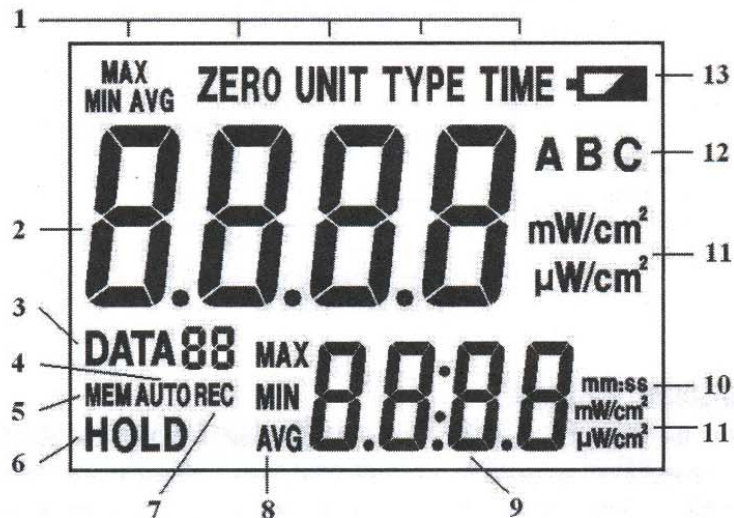
Range	Indication '-HI-'
Zero Adjust	Yes
Auto Record	Yes
Sample Time	Approx. 0.3 sec
Display	Backlit LCD and Dual Display
Memory	20 points and 1 for interval time
Operation Temp.	32° to 122°F (0° to 50°C), 10 to 90% RH
Battery Source	"9V"
Weight	Approx. 3.2 (90g) without battery and detector
Dimensions	5.51 x 1.93 x 1.14" (140 x 49 x 29mm)

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CONTROL PANEL



LCD DISPLAY



- 1 Main Functions
- 2 Primary Reading
- 3 Data Log
- 4 Auto Mode
- 5 Memory Review

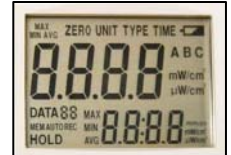
- 6 Data Hold
- 7 Record
- 8 MIN/MAX/AVG
- 9 Secondary Reading
- 10 Time Unit

- 11 Unit
- 12 UV Type
- 13 Low Battery

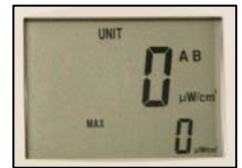
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Measuring procedure for for UV Black Light

1. Press  button and hold for 2 seconds. Release the button after power on. All symbols of LCD will appear for 1 second



2. Press “mode” button to change screen display to “unit”.



3. The sensor probe should be held 15” from the filter surface of the UV light source for proper NDT technique. The probe surface should be held perpendicularly to the direction of the light beam.

4. The LCD screen will show the numerical value of the UV light intensity. The Black Light output should read a minimum of $1,000\mu\text{Wcm}^2$ to meet industry specification.



5. The sensing element should be stored with the sensor face down in the case. You must verify that the sensor lens is clear and oil free before usage.

Replacement of Battery

1. When LCD display shows “Low Battery” in the left corner.
2. Slide the Battery Cover off the instrument and remove the used battery.
3. Replace with 9V battery and put the cover back. Make sure the battery cover is properly secured.

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OPERATIONS OF INSTRUMENT

POWER ON

Press ψ /Hold button and hold for 2 seconds. Release the ψ /Hold button after power on. All symbols of LCD will appear for 1 second.

POWER OFF

Press ψ /Hold button and hold for 2 seconds. All symbols of LCD will appear and shut down after releasing ψ /Hold button.

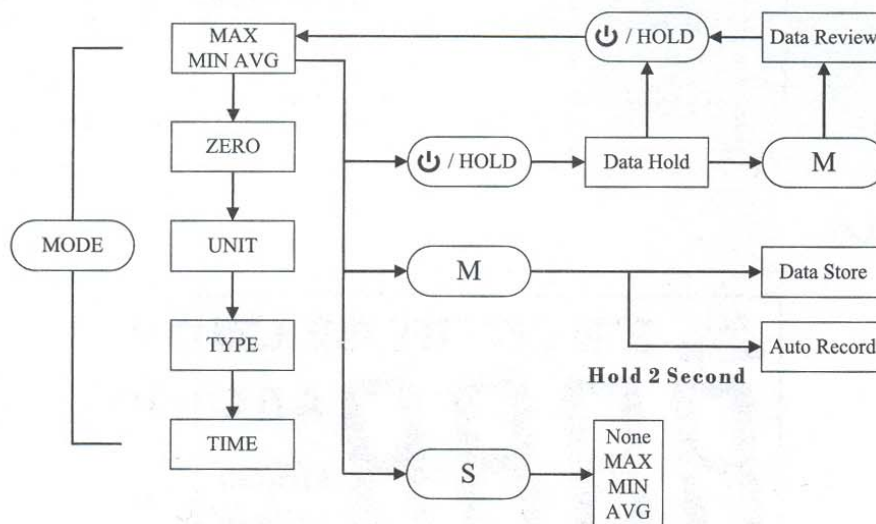
MEASUREMENT VALUE

The primary reading always displays the value of measuring. The secondary reading displays the outcomes of the advanced functions or data recording.

MAIN FUNCTION

Press Mode button to choose the main functions (MIN/MAX/AVG) has several extended programs as indicated in the diagram, please read the following descriptions to know how to press ψ , ψ /Hold or M buttons to move to next level!

MAIN FUNCTION DIAGRAM



**MAX MIN
AVG**

MAX/MIN/AVG MEASURING FUNCTION

There are 4 modes of the measuring function. Press the ψ button to change the mode of measuring:

None $\rightarrow$ Max $\rightarrow$ Min $\rightarrow$ Avg.

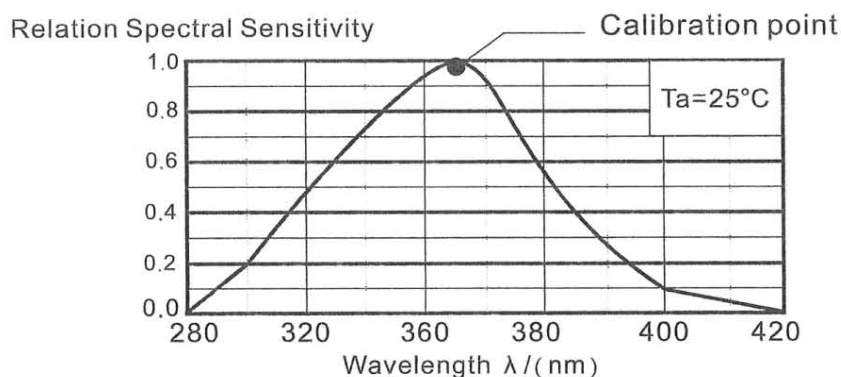


DATA HOLD

Press the ψ /Hold button, the value at Secondary Display will be held and the LCD will show the HOLD symbol. To cancel the hold mode, press the button again.

BLACK LIGHT ACCESSORIES

UVAB SENSOR



Specifications:

Sensor designation	UVAB
Sensor sensitivity	280 nm – 400 nm
Calibration point	365 nm
Temperature range	0° C - 50° C
Accuracy	+/- 10% of reading or 50 $\mu\text{W}/\text{cm}^2$ (whichever is greater)
Units/multi-Ranges	
Low illumination	1 $\mu\text{W}/\text{cm}^2$ – 9999 $\mu\text{W}/\text{cm}^2$
High illumination	0.01 mW/cm^2 – 40.00 mW/cm^2

Note: Press “Mode” key to enter unit selection mode.

Surface sensor



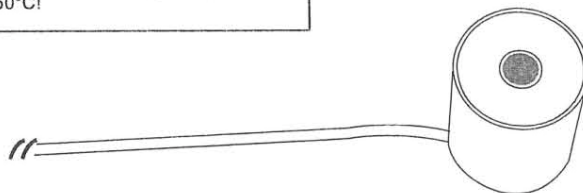
ATTENTION

The sensors are only suitable for short term measurement in a splash-proof environment, as otherwise premature ageing and thermal destruction of the sensor will occur. The housing temperature must never exceed 50°C!

Dimensions

$\Phi = 35 \text{ mm}$

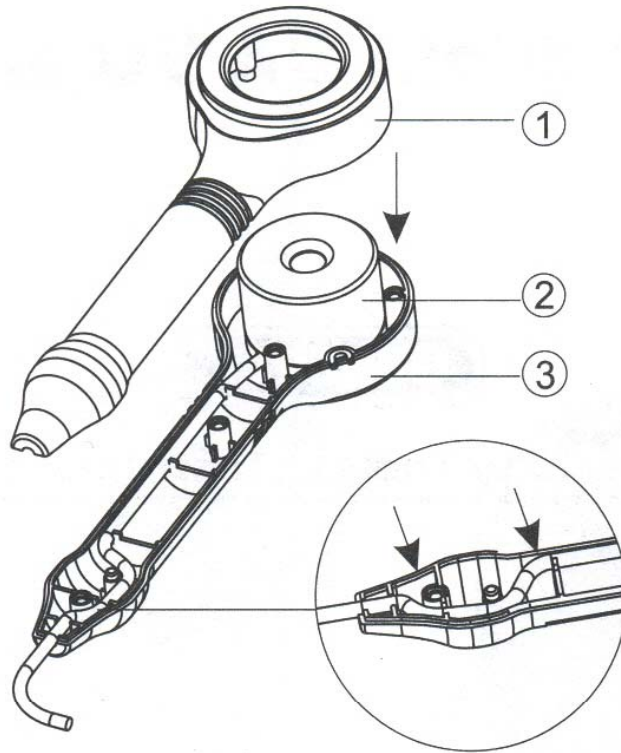
$H = 25.5 \text{ mm}$



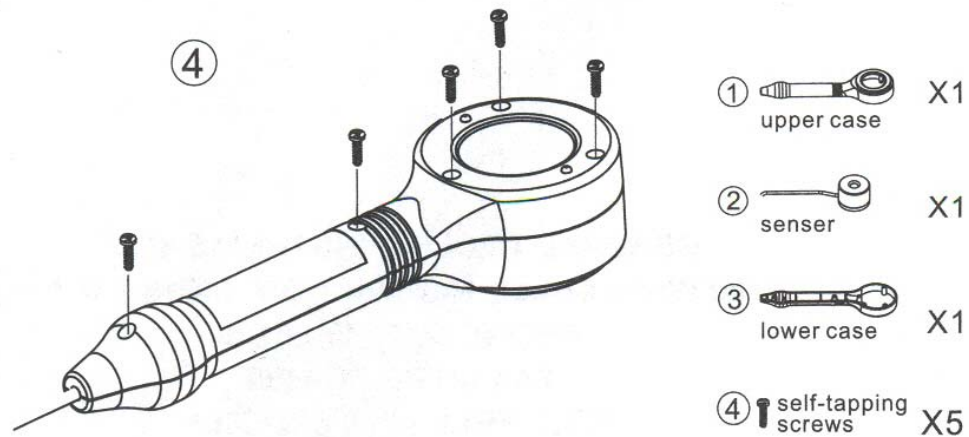
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Extendable Wand

(A)



(B)



Note:

It is recommended not to assemble and disassemble the wand too many times to avoid wearing out the screw holes.