

Digital Light/Lux Meter with USB function

User Manual

Thank you for purchasing this digital light/lux meter with USB function. We recommend that you read and follow the manual carefully before use.

Features:

- Wide Light Measurement Range (0 – 200,000 Lux / 20,000 Fc) with Auto Ranging
- Large Display with White Backlight
- Lux and Fc Switchable
- 32000 Reading Internal Memory (Data record function)*
- High Accuracy
- Data Hold Function
- Min/Max/Avg Function
- Detachable Sensor
- Time Display
- Low Power Consumption with Low Battery Indicator
- Under and Over Alert Function*
- Bar Graph Display
- Data Logging Function
- Auto Off Function
- Tripod Mount (Tripod not included)
- Software, USB Lead, DC 6V Cable, Case & Batteries Included
- CE Certified & RoHS Compliant

**Computer Required*

Specifications:

Standard Applied: CIE standard & CNS 5119-1988

Measure Range: 0 to 200,000 Lux / 20,000Fc (switchable)

Accuracy: $\pm 4\%$ (0 to 10,000 Lux); $\pm 10\%$ 10,000 to 200,000 Lux)

Resolution: 1 Lux / 0.1Fc

Sampling Time: 0.5 Second

Analogy Bar Graph: 0-2000 (x10 or x100)

AC signal output: 4Vrms/ full barograph, output impedance is approx 600 ohm

DC signal output: 33mV/dB

Operation temperature: 0 to 50°C (32 to 122°F)

Operation humidity: 10 to 90%RH

Storage temperature: -10 to 60°C (14 to 140°F)

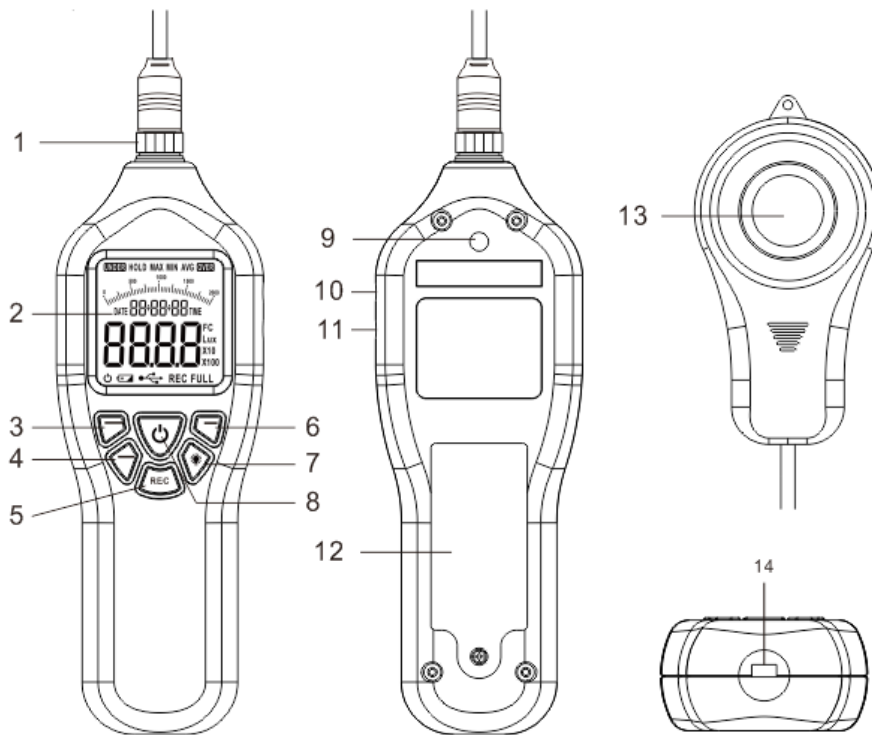
Storage humidity: 10 to 75%RH

Power Supply: 6V (4pcs AA Size 1.5V Battery)

Size (Approx.): Meter: 240*65*35mm / Sensor: 110x60x30mm/ Sensor lead: 1m

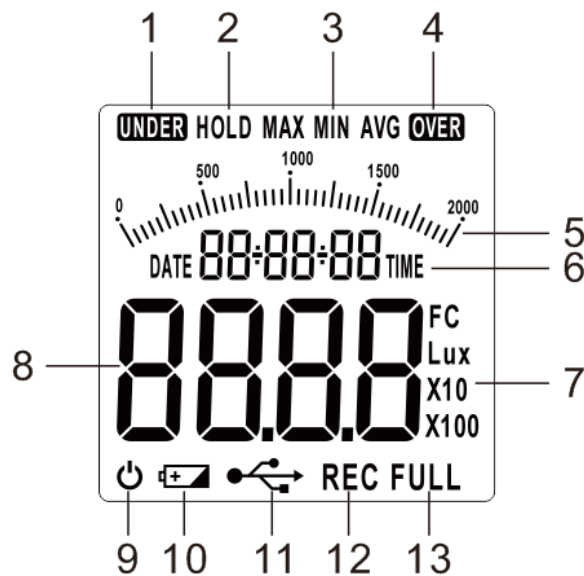
Weight: 290g (including 4 x average AA Batteries)

Product description:



1. Light Sensor Connector
2. LCD Display
3. Hold Button
4. Max Button
5. Rec Button
6. Fc/Lux Button
7. Backlight Button
8. Power Button
9. Tripod Mounting Thread
10. AC Output Socket (for analogue output)
11. DC Output Socket (for analogue output)
12. Battery Cover
13. Light Sensor (Detachable)
14. USB Socket

LCD display



1. **Under** Range Indicator: This will appear if the reading is under the minimum set range.
2. **Hold** Mode Symbol: In this mode the main readout will freeze the current reading on the digital display, but the bar graph will continue to display the current reading.
3. **Max/Min/Avg** Reading Mode Symbol: In these modes only the maximum, minimum or average readings will show on the digital display, but the bar graph will continue to display the current reading.
4. **Over** Range Indicator: This will appear if the reading is over the minimum set range.
5. **Bar Graph** Display: Light Levels are displayed via this graph and also via the digital display reading (see 8).
6. **Time** Display: (For data recording function and set when connected to the computer).
7. Light Units: (X10 = 20,000 Lux Reading & X100 = 200,000 Lux Reading / X10 = 20,000 FC Reading).
8. Digital Display Readout.
9. Power Symbol: Auto off symbol.
10. Low battery warning indicator.
11. USB communication icon displayed when the meter is connected to a computer via a USB

lead (supplied)

12. **REC**: Data recording icon displayed when the meter is recording readings.

13. **FULL**: Data recording memory full indication icon. Data would need to be downloaded to a PC to empty.

Operation:

1. Turning On and Off Your Meter

a. Press the **Power button** to turn on your meter.

After 10 minutes without any operation the meter will automatically power off.

Press the **Power button** again to turn off the meter manually.

b. If the meter is already connected to a PC and the **USB Symbol** is displayed the meter will not turn off until the batteries run out or it is disconnected from the PC (when part (1.a) will again apply).

2. Hold Function

Press **Hold/Backlight Button** to enter and exit the Data Hold Mode.

Under Hold Mode all readings will freeze on the LCD display with all the current readings.

3. MAX Button Functions (Maximum / Minimum /Average)

Press **Max Button** once to choose Max reading, twice for Min reading, and three times for Avg reading display modes. A fourth Press of the Max Button will exit back to the normal display mode.

Max: When in this mode the meter will display the maximum value readings each of the measurements has reached

Min: When in this mode the meter will display the minimum value readings each of the measurements has reached

AVG: When in this mode the meter will display the average value readings each of the measurements has reached

4. Units Switching Function (Lux to Fc)

Press **Fc/Lux Button** to switch the light measurement units between FC (Foot Candles) and Lux.

5. Backlight function

Press **Backlight Button** to turn on or off the backlight.

6. Recording function

a. Press **REC button**. The REC icon will appear on screen. The meter will now begin logging the maximum and minimum levels. **This will only function after the parameters have been set via PC.**

b. The meter will continue to record until you turn the meter off, or the meter memory reaches full capacity or the batteries run out.

Each new recording will require the meter to be reconnected to the PC so that the parameters can be reset


****The Auto off feature is disabled in Recording mode****

For full instructions on operating the software, please refer to HELP Section once the software is installed

7. Software installation

Run the Setup.EXE file in the folder "Lux Meter(Setup)" in the setup disk. Follow the on-screen prompts to complete the installation.

Battery Replacement:

If the meter does not power on as usual or the low battery icon  appears on the LCD display, please replace the batteries as soon as possible. Use a screwdriver to unscrew the back battery compartment cover and insert 4 x new AA batteries 1.5V.

Dispose of the battery in an environmentally safe and sound manner at a recycling point.

DO NOT DISPOSE OF IN YOUR BIN!

Operating Precautions:

Calibration is recommended before operation if the instrument has not be used for a prolonged period or has been stored in poor conditions.

Do not store or operate the instrument at high temperature or in a high humidity environment.

Keep the light sensor dry and avoid dropping.

When not in use for prolonged periods it is recommended that you remove the battery.

Tripod Mount:

Mounting the meter via a camera tripod (not supplied) will increase the stability & accuracy of the meter by eliminating any light reflected from the user.

Trouble Shooting:

1. Power on but no display or the display disappears

- a. Check the battery is in place with good contact to the pins and the correct way round.
- b. Remove battery for one minute and re-install.
- c. Replace the battery.

2. For all other issues please contact your supplier.

Warranty:

This meter has a one year warranty for a period of one year from date of purchase.

This warranty covers normal operation and does not cover batteries (including leaks), misuse, abuse, alteration, tampering, neglect, improper maintenance or improper calibration. Nor can the warranty be used as an excuse for a false claim simply because you have changed your mind after the initial 14 day period.

Proof of purchase is required for warranty repairs.

