

LIGHT METER

Model : LM-81LX



Your purchase of this LIGHT METER marks a step forward for you into the field of precision measurement. Although this METER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.



OPERATION MANUAL

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1. FEATURES

- * Tiny bone shape with lightweight and small size case design are suitable for handling with one hand.
- * Wristlet design provides extra protection to the instrument especially for user one hand operation.
- * Exclusive photo diode and color correction filter light sensor, spectrum meets C.I.E. photopic.
- * Build in microprocessor circuit assures excellent performance and accuracy.
- * Concise and compact buttons arrangement, easy operation.
- * Memorize the maximum and minimum value with recall.
- * Lux/Feet-candle selectable by pressing button on the front panel.
- * Zero button design makes light meter calibration.
- * Hold function to freeze the current reading value.

2. SPECIFICATIONS

2-1 General Specifications

Display	8 mm LCD display
Measurement	Light (Lux/Feet-candle)
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50° C (32 to 122° F)

Over Input Display	Indication of "- - - -"
Power Supply	006P DC 9V battery (Heavy duty type)
Power Consumption	Approx. DC 6.2 mA
Weight	160g (battery included)
Dimension	HWD 156x60x33 mm (6.14x2.36x1.29 inch).
Standard Accessory	Instruction Manual
Optional Accessory	Carrying case.

2-2 Electrical Specification (23 ± 5 °C)

<i>Measurement</i>	<i>Range</i>	<i>Resolution</i>	<i>Accureacy</i>
Lux	0 to 2,200 Lux	1 Lux	± 5% rdg ± 8 dgt
	1,800 to 20,000 Lux	10 Lux	
Ft-cd	0 to 204.0 Fc	0.1 Ft-cd	
	170 to 2,000 Fc	1 Ft-cd	

Remark :

Feet-candle = Ft-cd = Fc

3. FRONT PANEL DESCRIPTION

Fig. 1

- 3-1 Power Button
- 3-2 Hold Button
- 3-3 Max. / Min. Button
- 3-4 Zero Button
- 3-5 Lux/Ft-cd button
- 3-6 Light Sensor
- 3-7 LCD display
- 3-8 Battery Compartment / Cover
- 3-9 Wristlet

4. MEASURING PROCEDURE

- 1) Power on the instrument by pressing the " Power Button " (3-1, Fig. 1).
- 2) Position the " Light Sensor " (3-6, Fig. 1) directly under the light source. At the mean time the light reading value will be displayed on the LCD display.
- 3) Press the " Lux/Ft-cd Button " (3-5, Fig. 1) to select measuring unit " Lux " or " Ft-cd ".

Zero Offset Adjustment of Light Function :

- * Whenever reverse the meter and blank the light sensor with a desktop or any other flat surfaces and press the " Zero Button (3-4, Fig 1) " to finish the zero offset adjustment.
- * Zero point might drift away because of environment temperature change, battery power change or any other reasons. Whenever above zero offset adjustment procedures are recommended to be done for the most precise measurement if the zero point drifted away

5. OTHER FUNCTIONS

5-1 Hold Function

Whenever press the "Hold Button " (3-2, Fig. 1) will freeze the current reading value with a "HOLD" symbol on the display.

5-2 Data Record Function

- 1) The Data Record function records & displays the maximum and minimum reading values. To start the Data Record function by pressing the " Max./Min. Button " (3-3, Fig. 1) once. There will be a " REC " symbol on the display.
- 2) With the REC symbol on the display :
 - (a) Press the " Max./Min. Button " (3-3, Fig. 1) once and the " Max " symbol along with the maximum value will appear on the display.
 - (b) Press the " Max./Min. Button " again, the " Min " symbol along with the minimum value will appear on the display.
 - (c) To exit the memory record function, press the " Max./Min. Button " continuously for at least 2 seconds. The display will revert to the current reading.
 - (d) To clear the Max./Min. value recorded by pressing the " Hold Button " (3-2, Fig. 1) once. Previous recorded Max./Min. value will be given up and then revert to the REC. function keep on recording.

5-3 Auto Power Off Disable

In order to prolong the battery life, the instrument has "Auto Power Off " function. The meter will switch off automatically if no buttons are pressed for around 10 minutes.

6. BATTERY REPLACEMENT

- 1) When the LCD display shows "  " symbol, it's necessary to replace a new battery. However within specification measurement may still be made for several hours after low battery indicator appears.
- 2) Open the " Battery Compartment / Cover " (3-8, Fig. 1) and remove the battery.
- 3) Install a 9V battery (Alkaline or Heavy duty type) and then reinstate the cover.

7. OPTIONAL CARRYING CASE

Carrying case	* High quality carrying case with sash.
CA-52A	* Size : 200 x 80 x 50 mm.

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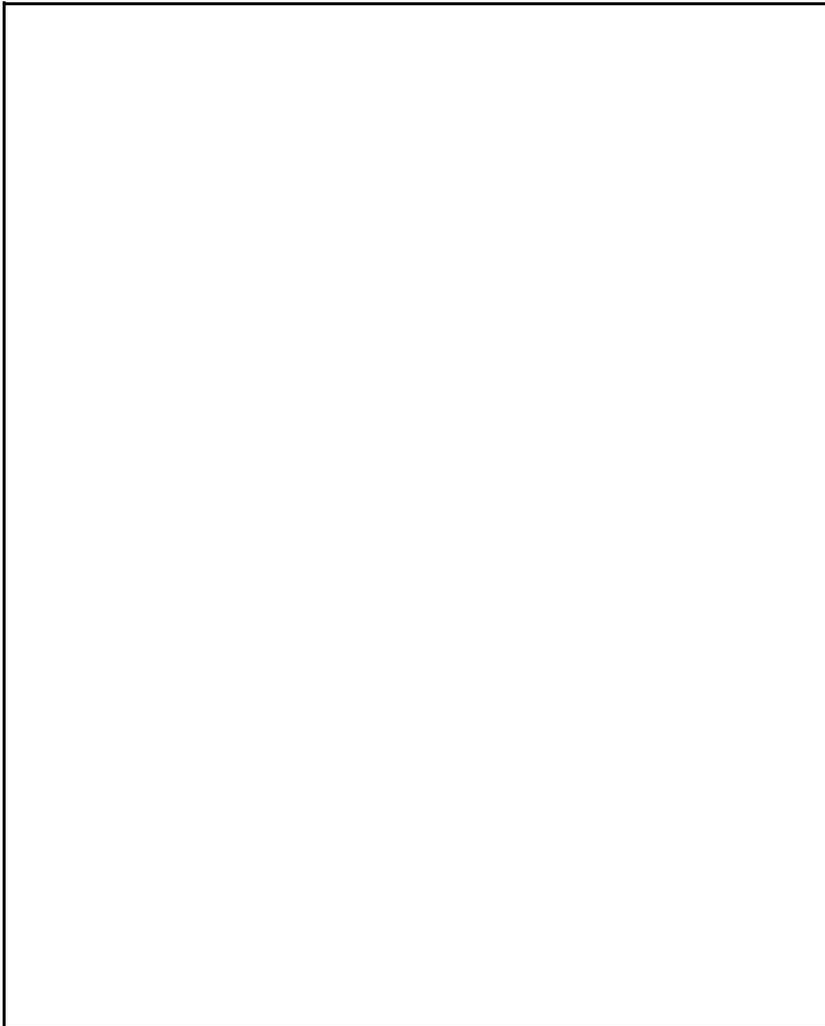


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