

# LUX METER

Model : LX-101



Your purchase of this LUX METER marks a step forward for you into the field of precision measurement. Although this LUX METER is a complex and delicate instrument, its durable structure developed. Please read the following instructions carefully and always keep this manual within easy reach.

**OPERATION MANUAL**

## TABLE OF CONTENTS

1. FEATURES.....	1
2. SPECIFICATIONS.....	1
2-1 General Specifications.....	1
2-2 Electrical Specifications.....	2
2-3 Spectrum for Light Sensor.....	3
3. FRONT PANEL DESCRIPTION.....	4
3-1 Display.....	4
3-2 OFF/ON Switch.....	4
3-3 Range Switch.....	4
3-4 Battery Compartment/Cover.....	4
3-5 Light Sensor.....	4
4. MEASURING PROCEDURE.....	5
5. MEASURING CONSIDERATION.....	5
6. BATTERY REPLACEMENT.....	6

## 1. FEATURES

- \* Sensor used the exclusive photo diode & color correction filter, spectrum meet C.I.E. photopic.
- \* Sensor COS correction factor meet standard.
- \* High accuracy in measuring.
- \* Wide measurement, 3 ranges : 2,000 Lux, 20,000 Lux, & 50,000 Lux.
- \* Separate LIGHT SENSOR allows user to measure the light at an optimum position.
- \* LSI circuit provides high reliability and durability.
- \* LCD display allows clear read-out even at high ambient light level .
- \* Pocket size, easy to carry out & operation.
- \* Compact, light weight and excellent operation.
- \* Built-in low battery indicator.

## 2. SPECIFICATIONS

### *2-1 General Specifications*

Display	13mm ( 0.5" ) LCD, 3 1/2 digits, Max. indication 1999.
Measurement	0 to 50,000 Lux, 3 ranges
Sensor	The exclusive photo diode & color correction filter.
Over Input Display	Indication of " 1 " .
Operating Temp.	0 to 50 °C ( 32 to 122 °F).

Operating Humidity	Less than 80% R.H.
Power Supply	006P. DC 9V battery, MN 1604 ( PP3 ) or equivalent.
Power Current	Approx. DC 2 mA.
Weight	160g / 0.36 LB (including battery).
Dimension	Main instrument : 108 x 73 x 23 mm ( 4.3 x 2.9 x 0.9 inch ) Sensor probe 82 x 55 x 7 mm ( 3.2 x 2.2 x 0.3 inch ).
Standard Accessories	Instruction Manual..... 1 PC Sensor probe..... 1 PC Carring case, CA-04..... 1 PC

### ***2-2 Electrical Specifications (23± 5 °C)***

Range	Resolution	Accuracy
0 - 1,999 Lux	1 Lux	± ( 5% + 2 d )
2,000 - 19,990 Lux	10 Lux	
20,000 - 50,000 Lux	100 Lux	
<i>Note :</i> <i>Accuracy tested by a standard parallel light tungsten lamp of 2856 K temperature.</i>		

## *2-3 Spectrum for Light Sensor*

### 3. FRONT PANEL DESCRIPTION

Fig. 1

- 3-1 Display
- 3-2 OFF/ON Switch
- 3-3 Range Switch
- 3-4 Battery Compartment/Cover
- 3-5 Light Sensor

## 4. MEASURING PROCEDURE

- 1) Slide the " OFF/ON Switch " ( 3-2, Fig. 1 ) to the " ON " position.
- 2) Select the proper range ( 2,000 Lux, 20,000 Lux or 50,000 Lux ) on the " Range Switch " ( 3-3, Fig. 1 ).
- 3) Hold the " Light Sensor " ( 3-5, Fig. 1 ) by hand & face the sensor to light source. then the Display ( 3-1, Fig. 1 ) will show light values directly.

## 5. MEASURING CONSIDERATION

- \* *The " Range B " is designed to measure 2,000 to 19,990 Lux only.*
- \* *The " Range C " is designed to measure 20,000 to 50,000 Lux only.*
- \* *If the measured value < 2,000 Lux, it should select to " Range A ".*
- \* *If the measured value within 2,000 to 19,990 Lux, it should select to " Range B ".*
- \* *If the measured value 20,000 Lux, it should select the " Range C ".*

## 6. REPLACEMENT OF BATTERY

- 1) When the left corner of LCD display show " LO BAT ", it is necessary to replace the battery. However, in-spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
- 2) Slide the Battery Cover ( 3-4, Fig. 1 ) away from the instrument and remove the battery.  
Replace with 9V battery and reinstate the cover .  
Make sure the battery cover is secured after change the battery.