

# OPERATION MANUAL

## DIGITAL LUX METER

Your purchase of this DIGITAL LUX METER marks a step forward for you into the field of precision measurements. Although this LUX meter is a complex and delicate instruments, it's ruggedness 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.

### I FEATURES

- Precise and easy readout.
- High accuracy in measuring.
- LSI-circuit use provides high reliability and durability.
- Permits a wide range of light measurements.
- LOW BATTERY indicator.
- Adjusting zero automatically and excellent operation.
- LCD display provides low power consumption and clearly read out evening high ambient light.
- Separate LIGHT SENSOR allows user take measurements at an optimum position.

### II GENERAL SPECIFICATIONS

Display: Maximum reading value display 3999

Ranges: 1-400,000Lux.;Resolution: 0.1Lux/Fc

Accuracy:  $\leq 10,000\text{Lux}$ :  $\pm 4\% \text{rdg} + 1.0\% \text{f.s}$

$\geq 10,000\text{Lux}$ :  $\pm 5\% \text{rdg} + 1.5\% \text{f.s}$

$\geq 200,000\text{Lux}$ :  $\pm 10\% \text{rdg} + 2.0\% \text{f.s}$

(Calibrated to standard incandescent lamp at color temperature 2856K)

Repeatability:  $\pm 2\%$  ;Temperature :  $\pm 1^\circ\text{C}$

Photo detector: one silicon photo diode with filter.

Operation temperature-humidity:  $0^\circ\text{C}$  to

$40^\circ\text{C}$  ( $32^\circ\text{F}$ - $104^\circ\text{F}$ ) 0~70%Rh

Storage temperature-humidity:  $-10^\circ\text{C}$  to

$50^\circ\text{C}$  ( $14^\circ\text{F}$ - $122^\circ\text{F}$ ) 0~80%Rh

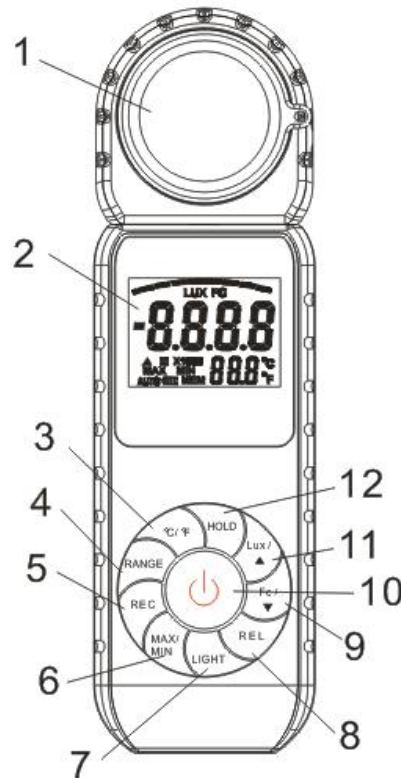
Dimension: 174×51×32mm

Weight: approx. 188 g (including battery)

Power Supply two 1.5V battery. Consumption current approx. 3mA

Accessories: Instruction-manual

### III PANEL DESCRIPTIONS:




1. Photo detector
2. LCD display
3. Celsius and Fahrenheit temperature conversion, when the need to measure the temperature unit conversion, press this button to convert .
4. Range select button . Long press to exit RANGE state and enters the AUTO state.
5. Short press can record data, press once time will record a data. Long Press to read the data (MEM) state, total 33 sets of data can be recorded. Records can be recycled. Through button 11 and 10 look up and down the records.
6. MAX and MIN selection button. MAX-MIN-once press is canceled state. cyclable.
7. Back Light Button Switch
8. Press the "REL" key, the meter enters relative measuring mode, "REL" is displayed on the LCD and the present reading becomes the reference value and displayed on the display.
9. Select FC units. When reading data state, Press the look down keys.
10. The switch button, press the first boot, twice will shutdown. Auto-off time of 10 minutes
11. Select the Lux units. When reading data state, can use the look up button to select units.

- 12. HOLD key:** Press the “**HOLD**” key to lock display value, and the “**DH**” sign will appear on the display, press it again to exit.

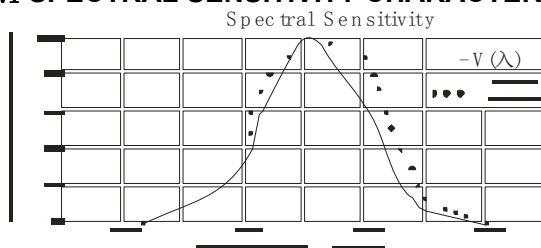
#### IV OPERATION INSTRUCTIONS:

1. Connect the battery, and then press the button to “ON”
2. Remove the photo detector cap and face it to light source in a horizontal position.
3. Read the test value from the LCD display.
4. Over range: if the instrument only display one “OL” in the LCD, the input signal is too strong, and a higher range should be selected.
5. Data-Hold mode: press the HOLD key to select Hold model. When HOLD mode is selected, the LUX meter stops all further measurements and the test value with hold on the LCD. Press the button “HOLD” to the “ON”, the hold value will be cancelled.
6. When the measurement is completed, replace the photo detector cap and turn the power selector OFF.
7. When testing on strong light source(over 100k lux),the measure head need to close to light source slowly for measure .if can't test,move measure head away and test it again

#### V BATTERY CHECK-UP & REPLACEMENT:

1. It is necessary to replace another one 9V battery, when left corner of LCD display show“

#### VI SPECTRAL SENSITIVITY CHARACTERISTIC:



#### VII MAINTENANCE:

1. The white plastic disc on the top of the detector should be cleaned with a damp cloth when necessary.

2. Do not store the instrument where temperature or humidity is excessively high.
3. The reference level, as marker on the face plate, is the tiof thep photo detector globe.
4. The calibration interval for the photo detector will vary according to operational conditions, but generally the sensitivity decreases in direct proportion to the product of luminous intensity by the operational time. In order to maintain the basic accuracy of the instrument, periodic calibration is recommended.

#### VIII RECOMMENDED ILLUNINATON:

OFFICE	Conference, reception room	200~750Lux
	Clerical work	700~1,500Lux
	Typing drafting	1,000~2,000Lux
FACTORY	Packing work, entrance passage	150~300Lux
	Visual work at production line	300~750Lux
	Inspection work	750~1,500Lux
	Electronic parts assembly line	1,500~3,000Lux
HOTEL	Public room, cloakroom	100~200Lux
	Reception, cashier	220~1,000Lux
STORE	Indoors stairs corridor	150~200Lux
	Show window, packing table	750~1,500
	Forefront of show window	1,500~3,000
HOSPITAL	Sickroom, warehouse	100~200Lux
	Medical examination room	300~750Lux
	Operation room, emergency treatment	750~1,500Lux
SCHOOL	Auditorium, indoor gymnasium	100~300Lux
	Class room	200~750Lux
	Laboratory, library, drafting room	500~1,500Lux

Above picture and content just for your reference. Please be subject to the actual products if anything different or updated. Please pardon for not informing in advance.