

INSTRUCTION MANUAL

Light Meter

TABLET OF CONTENTS

TITLE

1. FEATURES
2. SPECIFICATIONS
3. PANEL DESCRIPTION
4. OPERATING INSTRUCTION
5. BATTERY REPLACEMENT

1. FEATURES

- 3 – 1/2digit LCD display with low battery indication.
- Easy to use with single function switch operating, pocket size and light weight.
- Measures from 0 to 50000 Lux/ Fc in four ranges with resolution 0.1Lux/Fc ..
- 2000 lux: reading x 10; 50,000lux: reading x 100

2. SPECIFICATIONS

Display: 1999 counts LCD display with low battery indication.

Over-range: “1” mark indication.

Low battery indication: The “BAT” is displayed when the battery voltage drops below the operating level.

Measurement rate: 1.5 times per second, nominal.

Storage temperature: -10°C to 60°C (14°F to 140°F) at <80% relative humidity

Power: One standard 12V, A23 battery.

Photo Detector Dimensions: 115 x 60 x 27mm

Dimensions: 188 x 64.5 x 24.5mm

Weight: 160g

Light

Measuring Range: 200, 2000, 20,000lux (20,000lux range reading x 10) and 50,000lux (50,000lux range reading x 100)

Overrate Display: Highest digit of “1” is displayed.

Accuracy: $\pm 5\% \text{rdg} + 10 \text{ dgts}$ (<10,000 lux)

$\pm 10\% \text{rdg} + 10 \text{ dgts}$ (>10,000 lux)

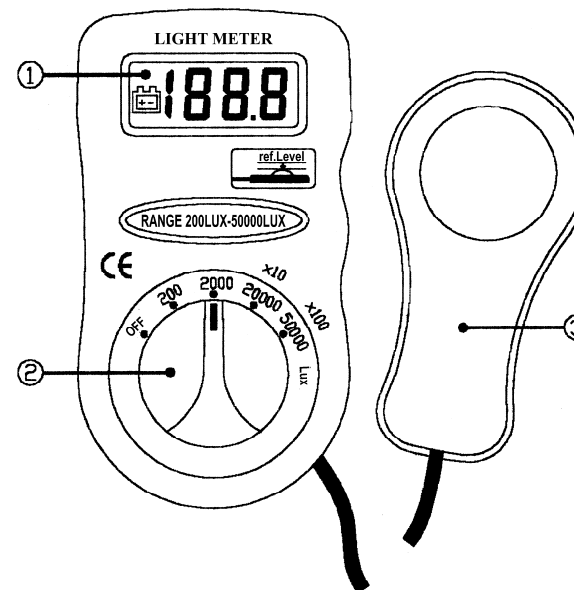
(calibrated to standard incandescent lam,2856 k).

Repeatability: $\pm 2\%$.

Temperature Characteristic: $\pm 0.1\% / ^\circ\text{C}$.

Photo detector: One silicon photo diode with filter.

3. PANEL DESCRIPTION



1. LCD display: 3 – 1/2digit LCD display with low battery “BAT” indication.

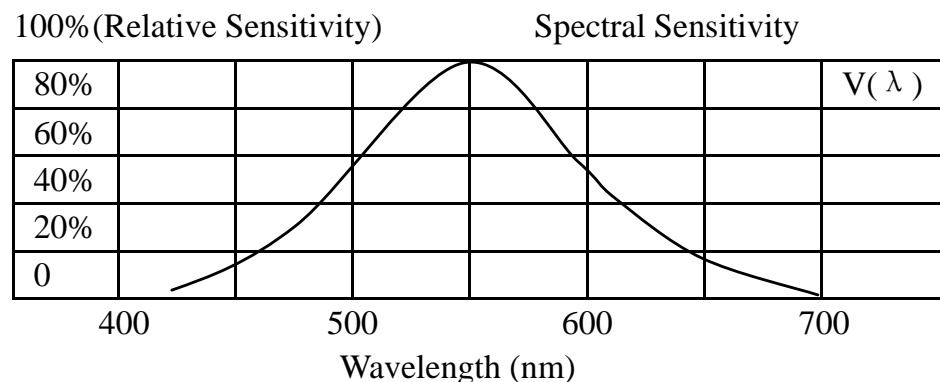
2. Power / Function / Range Switch: Turn power on (or off) and select measurement function and ranges.

3. Photo Detector: Long life silicon photo diode inside.

4. OPERATING INSTRUCTION

Measuring Light

1. Turn the Power/function/range Switch to select the “lux” scale and set the range to desired (“lux”, “x10 lux” or x 100 lux) range.
2. Remove the photo detector to light source in a horizontal position.
3. Read the illuminance nominal from the LCD display.
4. Over-range: If the instrument only display one “1” in the M.S.D. the input signal is too strong, and a higher range should be selected.
5. When the measurement is completed. Replace the photo detector from the light source.
6. Spectral sensitivity characteristic: To the detector, the applied photo diode with filters makes the spectral sensitivity characteristic almost meet C.I.E. (International Commission on Illumination) photopia curve $V(\lambda)$ as the following chart described.



7. Recommended Illumination:

Locations	Lux
*Office	
Conference, Reception room.	200 ~ 750
Clerical work	700 ~ 1,500
Typing drafting	1000 ~ 2,000
*Factory	
Packing work, Entrance passage	150 ~ 300
Visual work at production line	300 ~ 750
Inspection work	750 ~ 1,500
Electronic parts assembly line	1500 ~ 3,000
*Hotel	
Public room. Cloakroom	100 ~ 200
Reception, Cashier	200 ~ 1,000
*Store	
Indoors Stairs Corridor	150 ~ 200
Show window, Packing table	750 ~ 1,500
Forefront of show window	1500 ~ 3,000
*Hospital	
Sickroom, Warehouse	100 ~ 200
Medical Examination room	300 ~ 750
Operating room	
Emergency Treatment	750 ~ 1,500
*School	
Auditorium, Indoor Gymnasium	100 ~ 300
Class room	200 ~ 750
Laboratory Library Drafting room	500 ~ 1,500

5. BATTERY REPLACEMENT

If the sign “BAT” appears on the LCD display, it indicates that the battery should be replaced. Remove screws on the back cover and open the case. Replace the exhausted battery with new battery.

(1 x 12V battery A23 or equivalent)