

User's Manual

Professional Light Meter



Please read this user's manual thoroughly before using this unit and keep it properly for your future reference.

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1. Safety

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

▲ Environment conditions:

- $RH \leq 90\%$ (Non-Condensation)
- Operating Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Storage Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

▲ Maintenance

- Repairs or servicing not covered in this manual should only be performed by qualified personnel.
- Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

▲ Safety Symbol

CE Comply with EMC

2. Application

This Light Meter is designed to meet the measurement requirements of safety Engineers, Health, Industrial safety offices and light quality control in various environments like factory, school, construction, etc.

3. Features

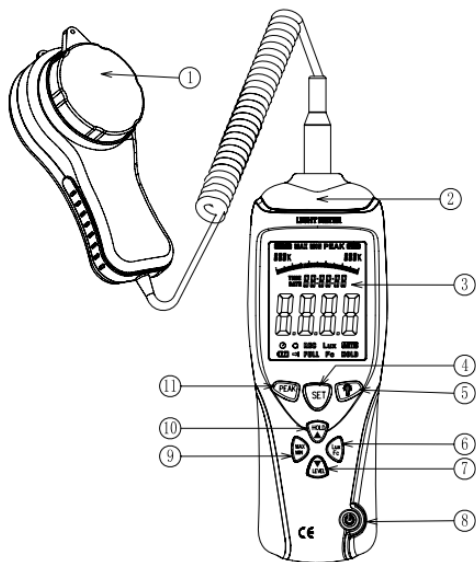
- Measuring range: 0Lux \sim 400kLux / 0Fc \sim 40kFc
(Measurement repeatability)
- Analog bar-graph indication
- Real time and date display
- High accuracy
- Data hold
- Meter corrected for spectral relative efficiency
- Automatically revise parameters for onstandard illumination
- Short rise and fall times
- Selectable measuring units: Lux or Fc
- Meter automatically shuts down after approx. 15 minutes of inactivity
- MAX/MIN record
- Large LCD display

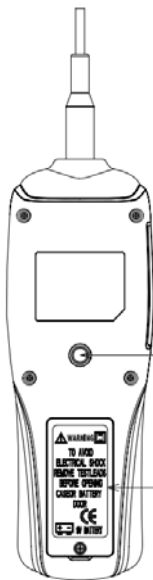
- Peak-hold
- 4-level selectable measurement ranges
- Automatic measurement
- Low battery indication

4. Specifications

- Display: 4 digits LCD display
- Measuring range: 0 Lux~400k Lux, 0Fc~ 40k Fc
- Spectral response: CIE photopic (CIE human eye response curve)
- Over range indication: LCD displays "-OL-" or "-LO-"
- Spectral accuracy: CIE V λ function
($f_1' \leq 6\%$, $f_2' \leq 2\%$)
- Accuracy: $\pm 3\%$ rdg $\pm 0.5\%$ f.s. (<10,000Lux)
 $\pm 4\%$ rdg ± 10 dgts. (>10,000Lux)
- Sampling rate: 2 times per second
- Photo detector: Silicon photo-diode with spectral response filter
- Power supply: One 9V battery, 006P, NEDA1604 or IEC6F22
- Photo detector Lead Length: approx. 2.5m
- Dimension(L*W*H): 185*66*33(mm)
- Weight: 308g

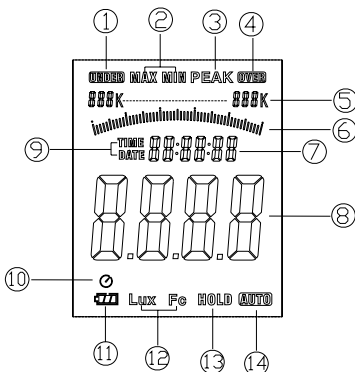
5. Meter Description







1. Photo detector
2. Photo detector socket
3. LCD display
4. SET key
5. Backlight ON/OFF key
6. Lux/Fc selection key
7. Range level selection key
8. Power ON/OFF key
9. MAX/MIN key
10. HOLD key
11. PEAK key
12. Tripod nut
13. Battery compartment

6. LCD Display Description





- | | |
|------------------------------|--------------------------------|
| 1. Low range indication icon | 2. MAX/MIN icon |
| 3. Peak icon | 4. Over range indication icon |
| 5. Range indication | 6. Analog bar-graph indication |
| 7. Date & Time display | 8. LUX/FC record |
| 9. Date & Time icon | 10. Auto power off icon |
| 11. Low battery icon | 12. Lux/Fc icon |
| 13. Hold icon | 14. Auto range icon |

7. Operation Instruction




- (1) **Power ON/OFF Function:** press "  " key for one second, the meter will be on; keep pressing this key for approx. 3 seconds, the meter will be off.
- (2) **Date & Time Set:** keep pressing the "  " key before power the meter on, then power the meter on and release this key when the DATE icon and data flash, enter into the Date & Time Set mode, the display will be YEAR-MONTH-DAY, fig.as below:

DATE 88:88:88

When the YEAR data flashes continuously, press "  " key to increase the value and press the "  " key to decrease the value. See fig.as below:




Year

DATE 88:88:88

Press "  " the second time, the MONTH data will flash continuously, then press "  " and "  " to increase or decrease the value. See fig.as below:




Month

DATE 88:88:88

Press "  " the third time, the DAY data will flash continuously, then press "  " and "  " to increase or decrease the value. See fig.as below:




Day

DATE 88:88:88

Press "  " the fourth time, the TIME icon and HOUR data flash, then press "  " and "  " to increase or decrease the value. See fig.as below:

Hour

TIME 88:88:88


Press "  " the fifth time, the MINUTE data flash, then press "  " and "  " to increase or decrease the value. See fig.as below:

Minute

TIME 88:88:88

After finish the Date & Time set, press "PEAK" key to save the data and exit this mode.


(3)  **Backlight**

After turning the meter on, momentarily press "" key, the backlit will be on/off, it will automatically turn off after approx. 30 seconds of inactivity.

(4) **Fc/Lux Selection**

Press the "" key to select Fc units or Lux units.

(5) **Range selection**


Press "" key to select the range level, there are four selectable levels:

0 ~ 400 Lux; 400 ~ 4k Lux


4k ~ 40k Lux; 40k ~ 400k Lux

AUTO range: 0 ~ 400k Lux


(6) MAX/MIN

In the measurement mode, press  key one time, "MAX" icon will appear on the LCD to view the current MAX reading, press the button again, "MIN" icon will appear to view the current MIN reading. Press this key once more to exit the MAX/MIN mode.


(7) Data Hold

Press  key one time, "HOLD" icon will appear on the LCD, which indicates the data is freezed. To release the held reading, press the key again.

(8) PEAK

Press  button one time, "PEAK" icon will appear on the upper right of LCD, the PEAK value will be displayed. Press this key again to exit the PEAK mode.

8. Notes

- (1) When the low battery icon " " appears, replace the meter's battery.
- (2) Check whether the photo detector is well connected with the photo detector socket before measurement.
- (3) When manual range is needed, press "LEVEL" key to select the desired range, if "UNDER" or "OVER" icon appears on the LCD, which indicates incorrect range and need to select again.
- (4) Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
- (5) If the date and time automatically resume to default setting after power the meter on, which indicates the battery power is low, replace the meter's battery.

9. Accessories

- ① User's manual
- ② Photo detector
- ③ 9V battery
- ④ Tripod(Optional)

