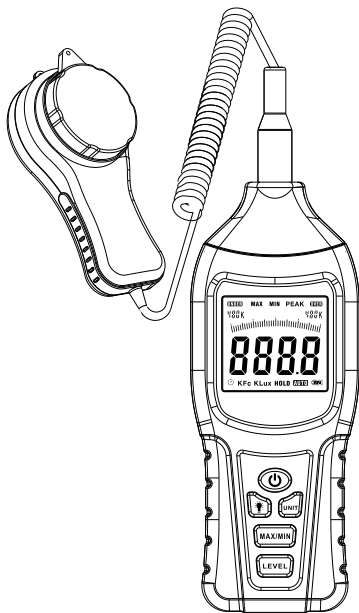


User's Manual

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

 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.

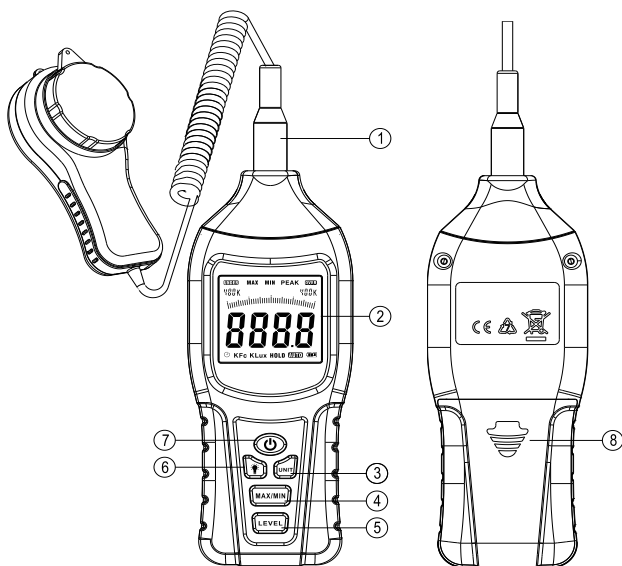
3. Features

- ◆ Measuring range: 0Lux \sim 400kLux/0Fc \sim 40kFc
(Measurement repeatability)
- ◆ Analog bar-graph indication
- ◆ High accuracy
- ◆ Data hold
- ◆ Meter corrected for spectral relative efficiency
- ◆ Automatically revise parameters for un-standard 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-" Symbols show as "OVER" or "UNDER"
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
Battery life	at least 30 hours
Operating conditions	-20°C ~ 60°C; 10%RH ~ 90%RH
Storage conditions	-20°C ~ 60°C; 10%RH ~ 75%RH
Dimension(L*W*H)	158*62*32mm
Weight	258g

5. Meter Description



①Photo Sensor

②LCD display

③Lux/Fc selection key

④MAX/MIN key

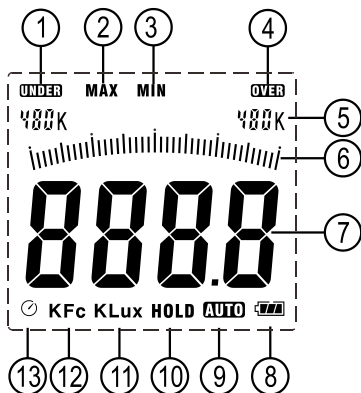
⑤Range level selection key

⑥Backlight/HOLD key

⑦Power ON/OFF key

⑧Battery Cover

6. LCD Display Description



① Low range indication icon

② MAX icon

③ MIN icon

④ Over range indication icon

⑤ Range indication

⑥ Analog bar-graph indication

⑦ Lux/Fc record

⑧ Low battery icon

⑨ Auto range icon


⑩ Hold icon

⑪ LUX icon


⑫ Fc icon

⑬ Auto power off 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) 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.


(3) Data Hold

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


(4) Fc/Lux Selection

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


(5) 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.

Press "" key for 3 seconds above, re-start to calculate the maximum, minimum.

(6) Range selection

Press "" key to select the range level, there are four selectable levels: 0~400Lux


400~4kLux;

4k~40kLux

40k~400kLux;

AUTO: 0~400kLux;

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.

9. Accessories

- ① User's manual
- ② Photo detector
- ③ 9V battery