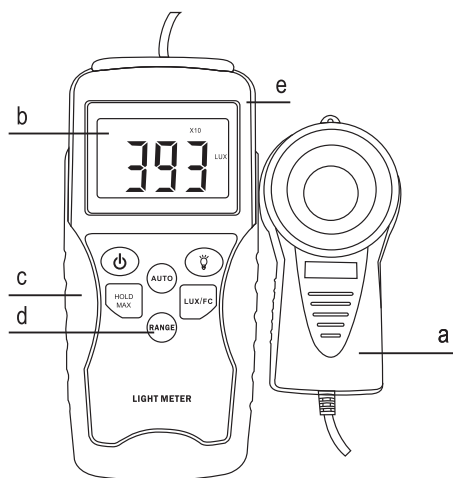# Digital light meter

Instruction Manual

Ver 1.0

CE

CE Certification
This instrument certified to the following standard:
EN 61010-1 General Safety

PLEASE RECYCLE

This instrument is certified to the international standard C.I.E.
With high accuracy Si photodiode and light filter, it is widely used to measure the light intensity of illumination in different applications. This instrument also has backlight function, makes it easy to read when the light is insufficient or too strong.
Be sure read this manual carefully before use the instrument, and keep the manual for later use

1.Safety operation condition

To keep the accuracy of measurement, please use it under the following circumstance:
Height: ≤2000M
Relative Humidity:≤80%RH
Temperature: 0-40℃

2.Maintenance

1)Do not try to repair the instrument by yourself, take it back to the technician.
2)Do not use it in high temperature and humidity circumstance
3)Keep the instrument especially the light sensor clean.
4)The sensitivity of the sensor will decrease along with the use of the instrument.
Note: to maintain the accuracy, please calibrate the instrument periodically.

3.Parameters

Display:4 digital LCD
Range:1~200,000 Lux/Fc (1Fc=10.76lux)
Accuracy:≤100,000Lux:±（3% rdg + 5dgts)
        :>100,000Lux:±（5% rdg + 10dgts)
Resolution:1Lux;0.1Fc
Repeatability:±2%
Temperature characteristics:±0.1%/℃
Sampling rate:2.5time/second
Sensor:Si photodiode
Standard accessories: Carrying case, manual, battery

Operation condition:0~40℃(32~104℉);10~80%RH
Storage condition:10~60℃(14~140℉);10~70%RH
Power:1x9V,6F22
Battery life:50 hours continuous measurement
              (with backlight off)
Sensor cable length:150CM
Sensor size:106 * 56 * 22.5mm
Main unit size:73*155*36mm
Weight:290g (batteries included)

4.Description

Structure:
a. Sensor
b. Screen
c. Protective cover
d. Buttons
e. Battery compartment

Display :
a.Light value
b.Measutment unit
c.Auto range
d.x10,x100,x1000
e.Hold the current reading
f.The Min value
g.The Max value
h.Power indicate
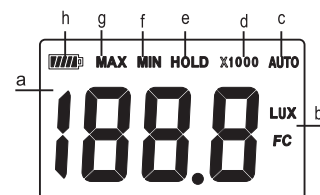
5.Buttons

【 ⏻ 】:Switch the device on or off

Switch on: Put in battery, press the button, it displays fully, and quickly be ready for measurement

Switch off: Automatically goes off after 10mins inaction; or by pressing the button.

【 💡 】:Backlight: Switch on or off the backlight

Press the button to switch the backlight on or off, it goes off automatically after 10s inaction (use it the less, the more battery power saved.)

【HOLD/MAX】:Freeze the current reading, press it again display the Max value, and press it the third time, back to the measuring mode.

【Lux/Fc】:Switch the unit between Lux and Fc.

【Auto】:Auto range selection

【Range】:choose the range from x10, x100 and x1000.

6.Precheck

1) Make sure the battery is installed, if "⬚" occurs, please replace battery first.
2) Make sure the reading is 0, when the sensor is covered, if not, please adjust it into 000 with ZERO button.

7.Measuring instruction

1)Switch the instrument on with " ⏻ "
2)Choose the unit.
3)Take off the sensor cover,place the sensor horizontally with the light source.
4)The correct value is to combine the reading with the multiple.

8.Battery replacement

When the " ▭ " occurs, please replace the battery immediately.
1)Switch the device off, unplug the thermocouple.
2)Take off the protective cover carefully.
3)Unscrew the battery cover on the back of the device.
4)Replace it with new 9V 6F22 battery.
5)Put back the battery cover, and the protective cover

9.Spectral sensitivity

Spectral Sensitivity   (Typ.Ta=25℃)

— V(λ)

··· LIGHT METER
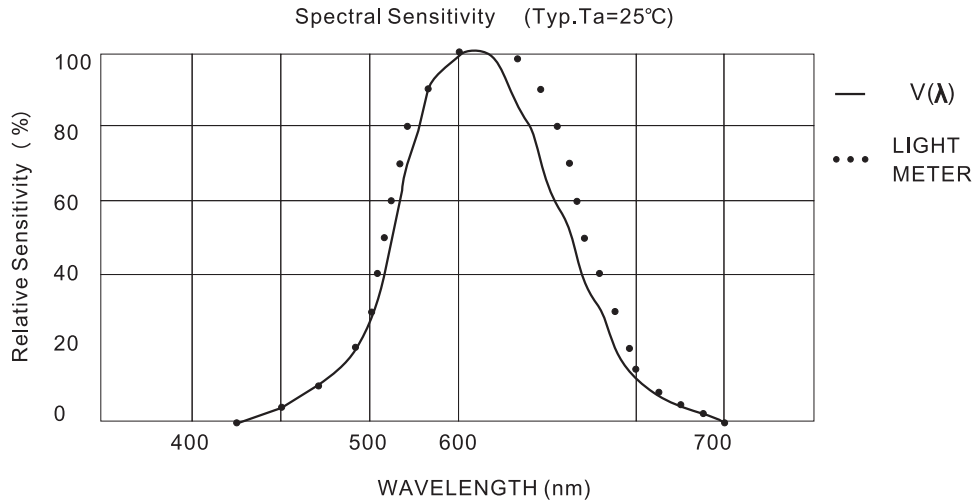
10.Calibration reference and compensation factor

1) The instrument is calibrated under the osram lamp (color temperature2856K).
2) Refer to the following information when measure different light sources
   Mercury lamp:x1.05
   Fluorescent lamp:x1.11
   Sunlight:x0.95

11.Look-up table:The light value For a variety of places

Range (Lux)	10000~5000	3000~1500	1500~750	750~250	250~150	150~75	75~20
Factory	——	Electronics Assembly	Composing	Line Of Production	Packing	Exit, Entrance Passage Way	Warehouse cargo Lift
Office Room	——	Typing	Working Desk	Conference Room restaurant	Passage Way	Generator Room	Corridor
Residence	——	Sewing	Reading , Writing	Make Up Restaurant	Entertainment	Bath Room	——
Store	——	Show Room	Packing show Room	Elevator Display Shelf	Corridor Passage Way	Common Room	——
Hospital	Eye Examination	——	Surgery	Diagnosis Room Restaurant	Waiting Room ward	Corridor, Exit Entrance	——
School	——	——	Reading Room	Classroom	Auditorium Gym,bath Room	Corridor	——
Restaurant	——	——	Show Room	Dining Table Kitchen	Exit,Entrance Washing	Passage Way Corridor	——