

# DIGITAL LIGHT METER

## USER MANUAL



**SCAN THE QR CODE**  
to download the **USER MANUAL** in different languages and **SOFTWARE**

**TUTORIAL VIDEO ON HOW TO USE**

Need more help? **CONTACT US.** <https://cd50.net/429>


## INTRODUCTION

Light Meter is used to measure the brightness of visible light, and it can change the measuring range automatically; It is suitable for storage, factories, hospitals, schools and other occasions.

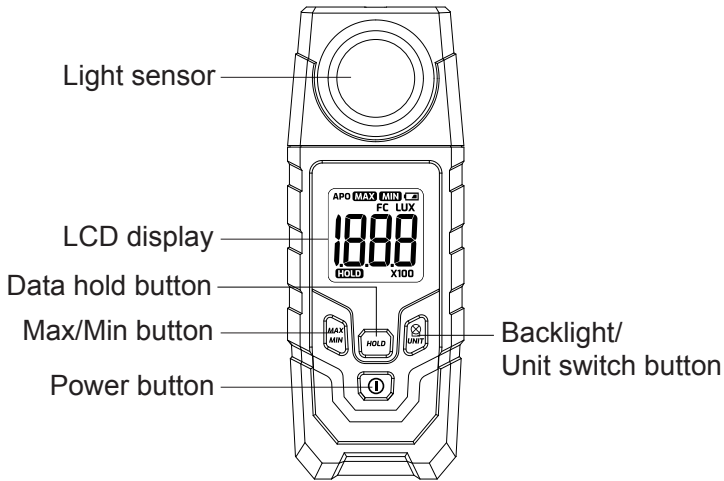
### SAFETY INFORMATION

To prevent eye damage and personal injury, please read all safety information carefully before you use the product.

#### ⚠ WARNING

- Do not use this product in an environment with explosive gas, flammable vapor and dust;
- Please check the product before use. Do not use if the product is damaged;
- Replace the batteries when the “” symbol shows to prevent incorrect measurements;
- To prevent battery leakage, please remove the battery if the product is not used for an extended period of time, or if stored in temperatures above 50°C;
- Only authorized technicians are allowed to repair this product.

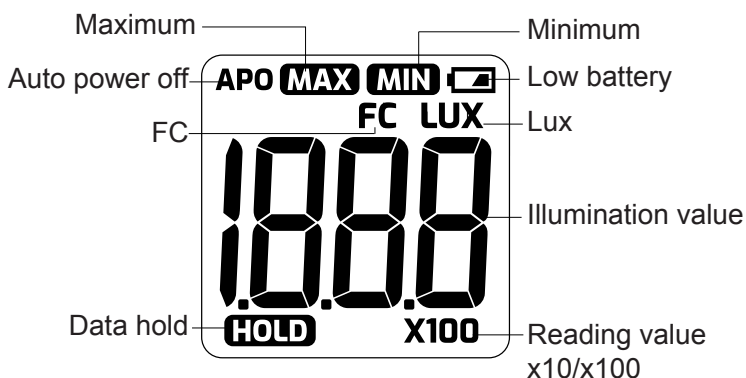
## PRODUCT OVERVIEW



## TECHNICAL SPECIFICATIONS

|                         |                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------|
| Measurement method      | Integral type                                                                                 |
| Range                   | 0.1 ~ 200000LUX / 0.01 ~ 20000FC                                                              |
| Measuring level         | 200 / 2000 / 20000 / 200000 lux<br>20 / 200 / 2000 / 20000 fc                                 |
| Accuracy                | ±(4%+10dpts)<br>(calibrated under the standard incandescent lamp at color temperature 2856°K) |
| Resolution              | LUX<200: 0.1; LUX≥200: 1<br>FC<20: 0.01; 20≤FC<200: 0.1; FC≥200: 1                            |
| Display                 | 4 digits, max 1999                                                                            |
| Light sensor            | Silicon photodiode with filter                                                                |
| Sampling rate           | Approx. 2 times/s                                                                             |
| Incident range          | 120°                                                                                          |
| Repeated test deviation | ±2%                                                                                           |
| Spectral range          | 400 ~ 700nm                                                                                   |
| Working environment     | -10~50°C, max 80%RH, indoor altitude<2000m                                                    |
| Storage environment     | -10~50°C, max 70%RH (battery removed)                                                         |
| Product size            | 150 × 56 × 30mm                                                                               |
| Screen size             | 29 × 30mm                                                                                     |
| Weight                  | Approx. 150g (battery not included)                                                           |
| Power                   | 2 x 1.5V AAA (RO3/LRO3)                                                                       |

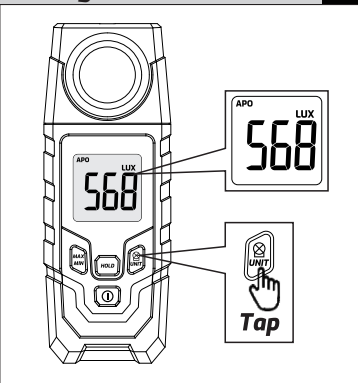
## DISPLAY



**Illuminance Measurement 1**



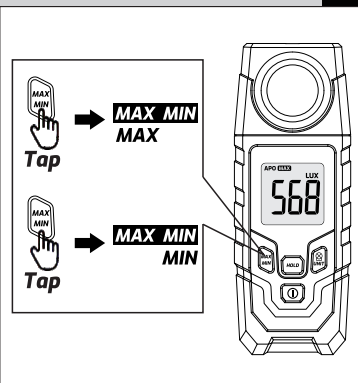
**Backlight 2**



**Data Hold 3**

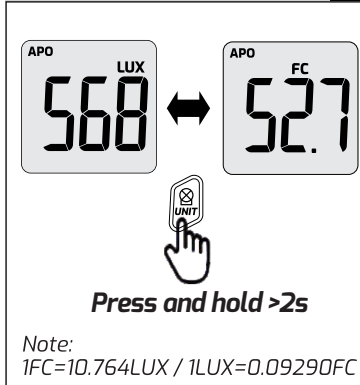


**Max / Min 4**

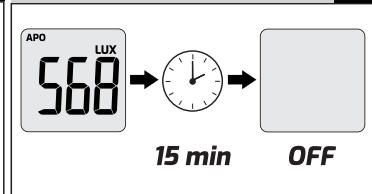


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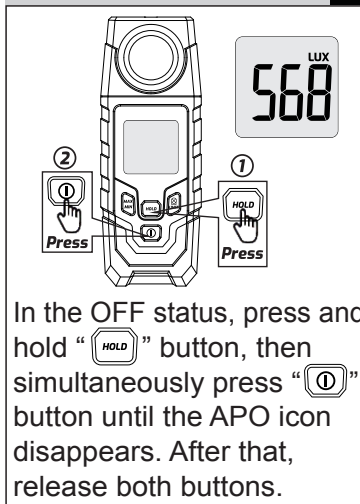
**LUX / FC 5**



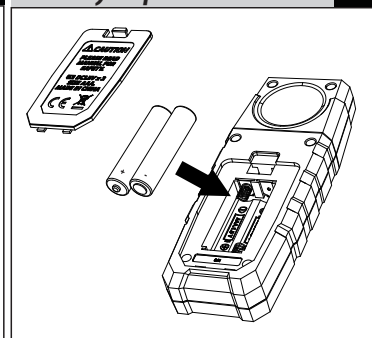
**Auto Power Off 6**



**Disable Auto Power Off 7**



**Battery Replacement 8**



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**Recommended Illumination in Different Locations**

1 fc=10.76 lux

| <b>School</b>     |                                          |
|-------------------|------------------------------------------|
| Illuminance (LUX) | Locations                                |
| 1500~300          | Laboratory, Computer room, Drafting room |
| 750~200           | Classroom, Conference room, Library      |
| 300~150           | Hall, Rest room, Stairs, Big classroom   |
| 150~75            | Corridor, Elevator, Toilet               |
| 75~30             | Warehouse, Garage, Escape stairs         |

| <b>Office Building</b> |                                              |
|------------------------|----------------------------------------------|
| Illuminance (LUX)      | Locations                                    |
| 2000~1500              | Design house                                 |
| 1500~750               | Hall channels(day), Punch, Typing            |
| 750~300                | Office, Computer room, Meeting room          |
| 300~150                | Stacks, Playroom, Lounge, Guard room, Toilet |
| 150~75                 | Tea room, Dressing room                      |
| 75~30                  | Escape stairs                                |

| <b>Home</b>       |                                                |
|-------------------|------------------------------------------------|
| Illuminance (LUX) | Locations                                      |
| 2000~1500         | Handcraft, Tailor                              |
| 1000~750          | Writing, Homework                              |
| 750~300           | Reading, Makeup, Desk, Nursing, Phone          |
| 300~150           | Laundry tray                                   |
| 150~70            | Closest, Bedroom, Bathroom, Stairs, Hallway    |
| 75~30             | Door plate, Mail box, Doorbell button, Balcony |

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| <b>Factory</b>    |                                                   |
|-------------------|---------------------------------------------------|
| Illuminance (LUX) | Locations                                         |
| 3000~1500         | Ultra precision machining and inspection, Drawing |
| 1500~750          | Design, Analysis, Assembly                        |
| 750~300           | Packaging, Surface work                           |
| 300~150           | Dyeing, Casting, Electrical room                  |
| 150~75            | Exit, Corridor, Channel, Stairs, Toilet           |
| 75~30             | Warehouse, Garage, Escape stairs                  |

| <b>Hospital</b>   |                                          |
|-------------------|------------------------------------------|
| Illuminance (LUX) | Locations                                |
| 10000~5000        | Special inspection                       |
| 1500~750          | Operatingroom                            |
| 750~300           | Anatomical room, Office, Conference room |
| 300~150           | Ward, Drug room, Corridor Dressing room, |
| 150~75            | X-ray room                               |
| 75~30             | Dark room (photos), Escape stairs        |

| <b>Hotel Restaurant Club</b> |                                               |
|------------------------------|-----------------------------------------------|
| Illuminance (LUX)            | Locations                                     |
| 1500~750                     | The front desk                                |
| 750~300                      | The banquet hall, Meeting room, Park, Kitchen |
| 300~150                      | Dining-room, Toilet                           |
| 150~75                       | Playroom, Stairs, Bathroom, Changing room     |
| 75~30                        | Warehouse                                     |

**WARRANTY**

Each product is warranted in material and workmanship under normal use. The warranty period is one year and begins on the date of purchase. To obtain warranty service, please contact the dealer or manufacturer to obtain return authorization information, then send the product to the service center.

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