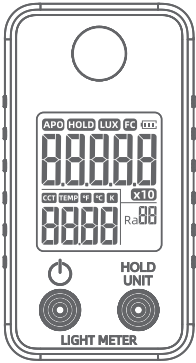


USER'S MANUAL

DIGITAL LIGHT METER



Note\* Please read this manual carefully before using this product and keep it in a safe place for future use.

Thank you for your choice, in order for you to better use this product, please read the manual carefully.Please read the instruction manual carefully, if it involves any content and parameter changes, we will not belf there is any change in any content or parameter, it will not be notified separately.

OVERVIEW

HX820 series illuminance meter is used to measure visible light brightness, visible lightcolor temperature, color rendering index, can automatically switch the measurement gear; used for storage, inspection,hospitals, schools, families, exhibition areas, museums, factories and other occasions.

Safety Precautions

To avoid injury and product damage, read all safety instructions before using the instrument. Read all safety instructions before using the instrument.WARNING:

1. Do not use this product in the presence of explosive gaseous substances, combustible vapors, or in a powder-filled environment. Do not use the product in the presence of explosive gases, flammable vapors, or dusty environments;

2. Check the product before use. If the product is damaged, do not use it;

3. When " " is displayed, please replace the battery as soon as possible to prevent the measurement error that cause inaccuracy;

4. If you don't use the product for a long time or want to store the product in a temperature higher than 50℃, please take out the battery, otherwise it will not be accurate. If the product is not used for a long time or stored in a temperature higher than 50℃, please take out the battery, otherwise the battery may leak;

5. Do not disassemble the product privately, and allow only approved technicians to service or repair the product. Only authorized technicians are allowed to repair the product.

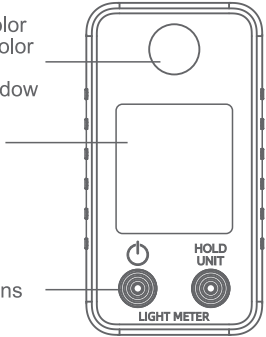
Product Description

Appearance

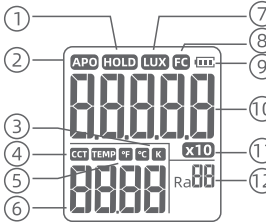
Illumination color temperature color rendering indexTest Window

Data Display Window

Function buttons



monitor



①

②

③

④

⑤

⑥

⑦

⑧

⑨

⑩

⑪

⑫

“HOLD”Data lock

“APO”Auto power off

“K”Kelvin color temperature

“CCT”Correlated Color Temperature

Colour temperature/temp data display area

Color temperature data display area

“LUX”Unit lux

“Fc”Unit footcandle

Battery Symbol

Illumination data display area

Illumination 10x units

Color rendering index data display area

Note: Serial No. 3, 4, 5 (only 8201, 8202 have this function.Serial number 11 (only 8202 has this function).

Technical indicators

|                                                 |                                                      |                   |                |
|-------------------------------------------------|------------------------------------------------------|-------------------|----------------|
| MODEL                                           | 8200                                                 | 8201              | 8202           |
| Illumination measurement range /Maximum display | 0.5~300000LUX/0.02~150000FC<br>Maximum display:99999 |                   |                |
| Measuring gear                                  | 99999/300000                                         |                   |                |
| Resolution ratio                                | < 10000:0.1; > 10000: 1                              |                   |                |
| Illuminance accuracy                            | ±(4%+10)                                             |                   |                |
| Illumination Repeat Test                        | ±2%                                                  |                   |                |
| Color temperature                               | —                                                    | 2500K~8000K (±5%) |                |
| Color rendering index                           | —                                                    | —                 | 20~100 Ra (±2) |
| Temperature                                     | 0~45℃ (±2℃)                                          | —                 | —              |
| Sampling rate                                   | 4 times/second                                       |                   |                |
| Spectral range                                  | 400nm~700nm                                          |                   |                |
| operating environment                           | -10℃~-50℃,Maximum 80%RH, Altitude <2000 meters       |                   |                |
| Product Size                                    | 100x55x26mm                                          |                   |                |
| Weights                                         | Approx. 70g (without battery)                        |                   |                |
| Power supply                                    | 2x1.5V AAA/R03/LR03                                  |                   |                |

Colour Rendering Index

1. Colour rendering index refers to the colour rendering of the light, which is the ability of the lamp to reproduce the colour of the object being illuminated. It refers to the ability of the lamp to restore the colour of the illuminated object, which is expressed by the colour rendering index.

2. The higher the colour rendering index, the truer the colour reproduction, the stronger the colour reproduction ability of the luminaire, i.e. the higher the Ra value, the better the colour reproduction ability of the lamp. The higher the colour rendering index, the truer the colour reproduction, the stronger the colour reproduction ability of the luminaire, i.e. the larger the Ra value, the better the colour rendering performance.

3. The machine takes the average value of R1~R8 as the display value of Ra.

Operation

Illumination measurement

1. Press the " "power button to turn on/off;

2. Place the product in the measuring position, the test window is placed perpendicular to the light source;

3. Read the value on the side of the display;

Data Hold

1. If you want to keep the current reading, press the "HOLD" key lightly, the display shows the "HOLD" symbol, press the "HOLD" key lightly again, the " Press the "HOLD" key again, the "HOLD" symbol disappears and normal measurement is resumed.

Unit switching

1. Press and hold down the "UNIT" key for 2 seconds to switch the unit between LUX (lux) / Fc (footcandle).(footcandle) unit cycle conversion;

2. Unit conversion: 1Fc (footcandle) = 10.764LUX (lux)  
1LUX = 0.09290FC (footcandle).

Auto Power Off

1. Lightly press the " " key to turn on the power;

2. If there is no operation within 10 minutes, the meter will automatically shut down;

3. If you need to disable the automatic shutdown function, please long press the"HOLD" key, at the same time long press the " " key, until the display screen shows the APO symbol and the sub-window shows the APO symbol.The secondary window will show OFF, release the key at the same time, and the display will show "APO" in the screen. The "APO" symbol disappears from the display screen; the automatic shutdown function of the instrument is turned on successfully, remember to press the "HOLD" key after it is not in use.Remember to press power to turn off the instrument after it is not in use;

3. After restarting the instrument, the automatic shutdown function will be restored.

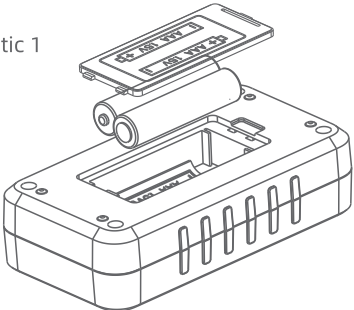
Maintenance

Replacing the Battery

1. When installing or replacing batteries (2x1.5V AAA), open the battery compartment door as shown in Diagram 1.Open the battery compartment door as shown in Figure 1; the batteries are loaded into t he battery compartment according to the labeled polarity;Batteries are disposed of in accordance with the laws and regulations of each region;

2. When the battery is lower than 2.4V, the battery low voltage indication.

Schematic 1



-1-

-2-

-3-

-4-

-5-

-6-

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-9-