OPERATION MANUAL DIGITAL LUX METER



Appreciate your choice of this Lux meter. Please read throught this manual carefully for proper operating techniques. This digital lux meter is a precise instrument which could be use for detecting light intensity in any situations.

I FEATURES

- High accuracy in measuring, fast reflection time
- Data hold function
- Symbolly and unit display for easy reading
- Zeroize automatically

II GENERAL SPECIFICATIONS

- Measuring range: 0.1Lux ~ 200,000Lux
 0.01FC ~ 20,000FC
- Display: 3 1/2 digits LCD display, maximum display value 1999
- Range Selection:

200Lux, 2,000Lux, 20,000Lux, 200,000Lux

20FC、200FC、2,000FC、20,000FC

20,000Lux range: reading × 10 200,00Lux range: reading × 100 20,000FC range: reading × 10

Annotate: 1FC=10.76Lux

• Accuracy: $<20,000Lux/2,000FC \pm (4\%rdg+10dgt)$ $>20,000Lux/2,000FC \pm (5\%rdg+10dgt)$

(Calibrated to standard incandescent lamp at color temperature 2856K)

Resolution: 0.1Lux

Repeatability: ±2%

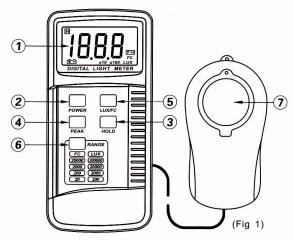
Temperature Characteristic: ± 1%/℃

• Test Rate: 2 times/sec

- Photo Sensor: one silicon photo diode with filter.
- Operation temperature-humidity: 0°C to 40°C (32°F-104°F) 0~70%Rh
- Storage temperature-humidity: -10℃ to 50℃ (14℉-122℉) 0~80%Rh
- Over-input: indication of "1"
- Power Supply: one 9V battery (Model 6F22)
 Battery life: 200 hours for continuously use
- Photo Detector Dimension: 105x58x28mm
- Dimension: 162x78x43mm
- Weight: about 310g

III PANEL DESCRIPTIONS AND FUNCTIONS:

(Fig 1)



- 1. LCD display
- 2. Power switch button
- 3. Data-hold button: press this button, hold the current value on display
- Peak-hold button: press this button, enter peak hold mode.
- 5. Unit switch button: press this button, switch between LUX and FC unit
- 6. Range select button: 200.0Lux、2, 000Lux、20, 000Lux、200, 000Lux; or 20.00FC、200.0FC、20, 000FC
- 7. Photo detector probe

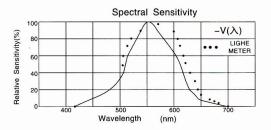
IV OPERATION INSTRUCTIONS

- 1. Insert battery, and turn on meter
- 2. Press the range select button until desired range.
- Remove the photo detector cap and face it to light source.
- 4. Read the test value from the LCD display.
- 5.If the instrument only display one "1", it means the range used is overflow and should change to larger range.
- 6.Data-Hold mode: press the "DH" key to select Hold mode. During Hold mode, the LCD display the " " and the value is locked on the LCD. Press the button"DH"again, exit Hold mode.
- 7.Peak-hold mode: press "PEAK" key to select peak hold mode, LCD display "P-H" symbol. The meter is sensitive for light pulse signal larger than 100ms and will display max light intensity. It updates and display new value only when a larger light pulse or light intensity appear. Press "Peak" button again to exit peak hold mode.
- 8.After using the insturment, cover photo detector with cap and turn off power.

V BATTERY CHECK-UP & REPLACEMENT

- 1.when left corner of LCD display show" 佳立", a battery replacement is required.
- 2.After turning off meter, unscrew and open battery cover to replace a new 9V battery.
- 3. Close battery cover and tighten the screw.

VI SPECTRAL SENSITIVITY CHARACTERISTIC



VII MAINTENANCE

- 1.Do not use or store the instrument in extrem high temperature or humidity environment.
- 2. Keep photo detector clean during usage.
- 3. The reference level, as marker on the face plate, is the top of photo detector globe.
- 4.According to operational conditions and time, the sensitivity of meter decreases. In order to maintain the accuracy of the instrument, periodic calibration is recommended.

VIII RECOMMENDED ILLUMINATION

HOSPITAL:

| illumination (Lux) | Locale |
|-------------------------|---|
| 10000~300 | Ophthalmological |
| 1500~750 | Operating |
| 750~300 | Dispensary, remedial room, drugstore, office, dissecting room, pathogen room, deanery, first-aid room, delivery room, nurse room, assembly room |
| 300~150 | Sickroom, powder chamber, surgical treatment room |
| 150~75 | Changeroom、physiotherapy room、x-ray room、sickroom aisle、germfree room、sickroom、stairway |
| 75~30 | Zoom room、darkroom、mortuary |

HOME:

| illumination (Lux) | Locale |
|-------------------------|---|
| 2000~1500 | Handicraft, dressmake |
| 1500~750 | Do homework |
| • 750~300 | Reading room、toilete、table、phone room, repairing room |
| 300~150 | Washhouse playroom living room |
| 150~75 | Garderobe balneary washroom stairway aisle |
| 75~30 | Mail drop、veranda |

OFFICE:

| illumination (Lux) | Locale |
|-------------------------|---|
| 2000~300 | Design room、affair room |
| 1500~750 | Hall passage(daytime)、bussiness hall、drawing room、clock on and off |
| 750~300 | PC room、assembly room、pressroom、antechamber、playroom、dining-room |
| 300~150 | Stack room、playroom、refectory、retiring room、gatehouse、lift、washroom |
| 150~75 | Drinking room、changeroom、storage、night watchman room(entrance) |
| 75~30 | Safety passage |

FACTORY:

| illumination (Lux) | Locale |
|-------------------------|--|
| 3000~300 | Transnormal exactitude work, design room, drawing room |
| 1500~750 | Design room、analysis、debugger、packaging |
| 750~300 | Product line、warehouse office |
| 300~150 | Dye-works foundry electrical room |
| 150~75 | Inlet and exit、aisle、passage、stairway、toilet room、washroom、inspection office |
| 75~30 | Safety passage storage dynamic equipment outdoor |

HOTEL, CABARET, RECREATION GROUND.

| TOTEE CADIMET RECREATION GROUND. | |
|----------------------------------|--|
| illumination (Lux) | Locale |
| 1500~750 | Counter |
| 750~300 | Banquet、affair room、stall、cookroom |
| 300~150 | Restaurant、washroom、big house which is Japanese style |
| 150~75 | Playroom、aisle、stairway、guest room、balneary、basilic lighting in the courtyard、changeroom |
| 75~30 | Safety passage |

SHOP, BAZAAR:

| illumination (Lux) | Locale |
|-------------------------|--|
| 3000~300 | Display in the room, jewelry showcase, the place where demonstrate perform, check-out counter, packing counter |
| 750~300 | lift hall、escalator |
| 300~150 | Chatting room、toilet room、washroom、stair、aisle |
| 150~75 | Retiring room、normal illumination in the store |

HAIR SOLON:

| IAIR SOLON: | |
|---|--|
| Locale | |
| Marcel and hairdressing room 、toilet room | |
| Shampoo、registration dais、bathing box | |
| Washroom in the store | |
| Aisle、stairway | |
| | |