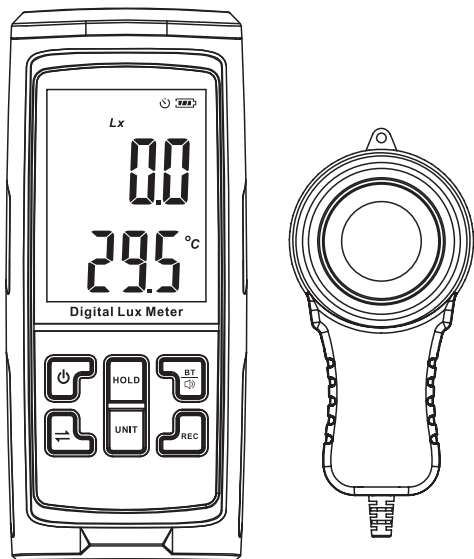


DIGITAL LUX METER

USER MANUAL



Scan the QR code to download the LUXLab PRO App

Note:

LuxLab PRO App only supports iOS 9.0 or above

SCAN THE QR CODE

to download
Software &
User Manual



TUTORIAL VIDEO ON HOW TO USE

Need more help? CONTACT US.

www.cd50.net/426

INTRODUCTION

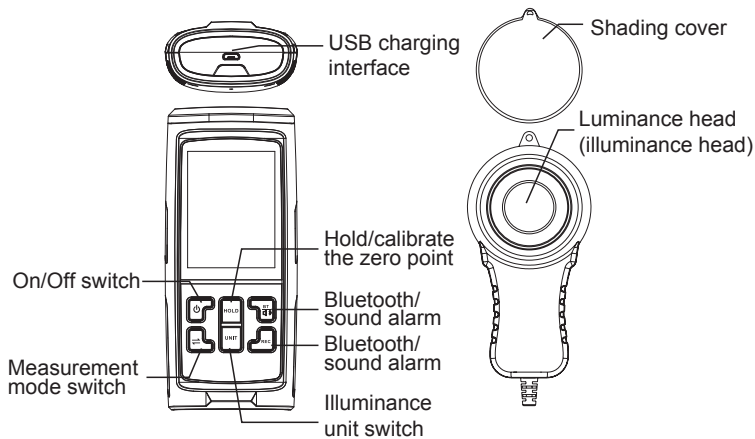
A split illuminance meter is a professional instrument for measuring luminosity and brightness. It is used for light intensity measurement engineering, quality control, health prevention, and light intensity measurement in various environments, such as factories, schools, offices, traffic routes, homes, etc.

FEATURES

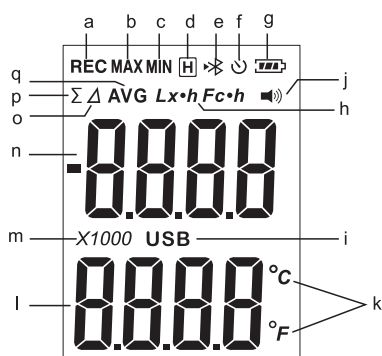
This split-type illuminance meter not only has the function of measuring illuminance and current value, maximum value, minimum value and difference; the alarm function of illuminance exceeding the default setting; it also has the function of illuminance value maintenance and illuminance temperature detection; Bluetooth mobile phone APP communication and computer communication function; measurement statistics illuminance integral, integral average and data recording functions.

1. Switchable illuminance units (Lx/Fc) and temperature units (°C/°F).
2. By default, the high alarm is set to 20,000; the low alarm is 0; the set value is not related to the unit.
3. Automatic range; sensitive response; be able to measure low-light environment (<10Lx).
4. Automatically shut off without operation for a long period of time can be turned on.
5. Fc: foot candlelight; Lx: lux; conversion relationship: 1Fc = 10.764Lx

NAME OF PARTS



LCD DISPLAY



- a. Data recording
- b. Maximum value
- c. Minimum value
- d. Data hold
- e. Bluetooth
- f. Timed shutdown
- g. Power and charging display
- h. Illuminance units
- i. USB connection status
- j. Sound alarm
- k. Temperature units
- l. Temperature value display area
- m. Multiplier of illuminance value
- n. Illuminance value display area
- o. Difference display
- p. Integral value
- q. integral average

Note: When " " appears, please charge it in time, otherwise the measured value may be distorted, Bluetooth communication is abnormal.

FUNCTIONAL OPERATION

1. On/off operation

Short press the " " button to turn on, and enter the real-time interface after booting up the full screen for 2s; after booting, press the button for a long time for 1s, and then the instrument shuts off.

2. Data hold

In the real-time interface or difference interface, short press the " " button to switch to the Hold interface, and the top of the screen will display "H"; Press the button again in the hold interface to return to the interface before entering the hold interface. In the real-time interface, long press the " " button to calibrate the zero point.

3. Sound alarm on/off settings

Under the real-time interface, long press " " button to display " "; turn on an audible alarm. Long press the button again to close.

4. Measurement mode switching

In the real-time interface, short press the " " button to switch the measurement mode; Mode: Normal - Difference (Δ) - Maximum (MAX) - Minimum (MIN) - Integral Value (Σ) - Integral Average (AVG), long press to return to normal mode.

5. Illuminance unit switching

In the real-time interface, short press the " " button to switch the illuminance unit "Lx/Fc"; long press the button to switch the temperature unit "°C/°F".

6. Record data/delete records

In the real-time interface, short press the " " button, and "REC" is displayed in the upper left corner at the top of the screen. When it flicks, it means to record a piece of data. Short press the button again to close, and long press the button to delete the record.

7. Timed shutdown on/off setting

In the real-time interface, short press the “” button, and “” is displayed in the upper right corner at the top of the screen, indicating that the timed shutdown function has been turned on. Short press the button again to turn it off.

8. Bluetooth on/off settings

In the real-time interface, short press the “” button, and “” is displayed at the top of the screen. When it flashes, it indicates that Bluetooth is on; when “” stops flashing, it means Bluetooth is connected; (the first short press after connecting to Bluetooth is to disconnect Bluetooth; the second short press is to turn off Bluetooth).

9. Display

Difference (Δ): the absolute value of the value after the button is pressed minus the previous value.

Maximum value (*MAX*): the maximum value after a short press.

Minimum value (*MIN*): the minimum value after a short press.

Integral (Σ): Calculated by adding the average value of the comparison value within 0.001 hour of unit time together. The maximum value is 999999, which is Integral average (*AVG*): Integral value/cumulative frequency.

Data hold (): Save the current data.

10. Power-off memory

- A. Automatic shutdown function (1min-99min)
- B. Bluetooth switch
- C. Alarm sound switch
- D. Illuminance & Temperature Units (Lx- Fc & °C-°F)
- E. Maximum number of records: 32752; Recording interval: 1s-9999s

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PARAMETERS

Illuminance probe		silicon photodiodes	
Illuminance range		0~200000Lx (0~18581Fc)	
gears	Gear range	resolution	error
1 gear	0~999.9Lx (0~92.894Fc)	0.1 Lx (0.01Fc)	±3%
2 gear	1000~9999Lx (93~929Fc)	1 Lx (0.1Fc)	±4%
3 gear	10000~99999Lx (929~9290Fc)	10 Lx (0.9Fc)	±4%
4 gear	100000~200000Lx (18581Fc)	100 Lx (9.3Fc)	±4%
Temperature range	-10°C~65°C (14°F~149°F)	0.1 °C (32°F)	±1.5°C (35°F)

APP OPERATION INSTRUCTIONS

APP CONNECT

1. Install the App.

Search for “LUXLab PRO” on your App Store, or scan the QR code below to download it.



LUXLab PRO

Note: the application only supports iOS 9.0 or above

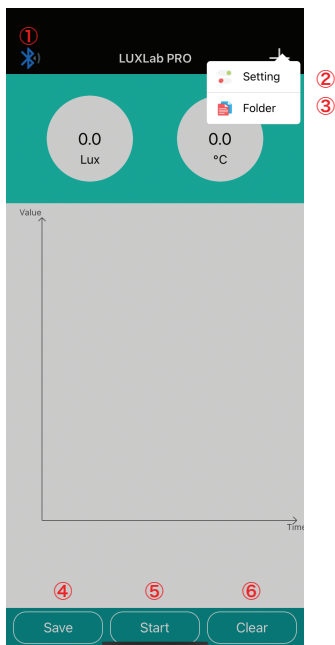
2. Connect the decibel meter to your smart phone.

- a. Power on the lux meter, and make sure the bluetooth icon appears on the decibel meter. If not, press the “” to turn it on.
- b. Enable Bluetooth on your phone and launch the “LUXLab PRO” app.
- c. Click the Bluetooth icon on the left side of the app and search for the bluetooth devices. Click “illuminationMeter” to connect.

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3. App Interface

1). Main Interface

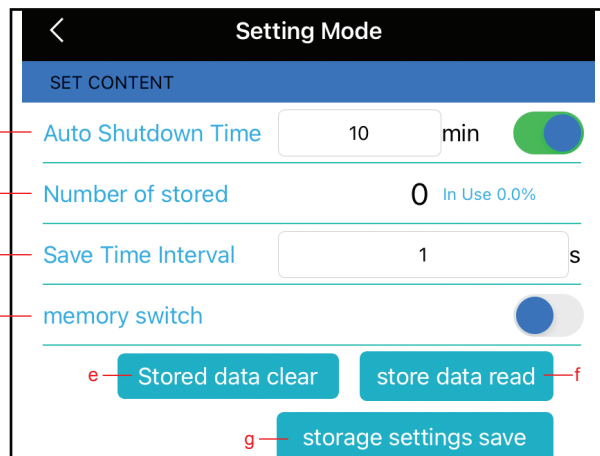


- ① : Click for searching bluetooth devices
- ② : Enter setting interfaces
- ③ : Enter the document interface
- ④ : Save the real time data recording on the phone
- ⑤ : Start/stop recording on the phone
- ⑥ : Clear the real time data on the phone

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2). Settings Interface

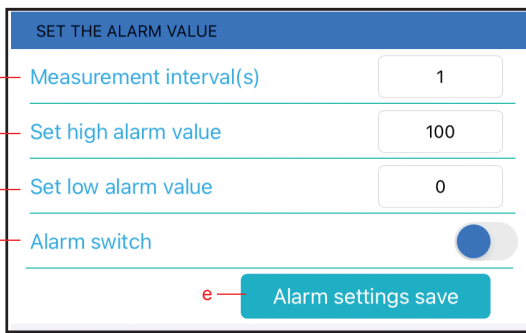
Section ① SET CONTENT



- a. Auto Shutdown Time: Set the scheduled time for automatic shutdown.
- b. Number of stored: Indicating the recorded data points in the lux meter.
- c. Save Time Interval: Set the sampling rate for recording in the lux meter.
- d. memory switch: Switch to start/stop recording in the lux meter.
- e. stored data clear: Delete the data stored on the lux meter.
- f. store data read: Export the data stored on the lux meter to the app.
- g. storage settings save: Click to apply the changes for the above settings a to d.

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Section ② SET THE ALARM VALUE



- Measurement interval(s): Set the sampling rate for recording in the app.
- Set high alarm value: Set high threshold for alarming.
- Set low alarm value: Set low threshold for alarming.
- Alarm switch: Switch to enable/disable alarm function.
- Alarm settings save: Click to apply the changes for the above settings a to d.

4. Data Recording

- Data logging within the app
 - Connect the lux meter to the “LUXLab PRO” app.
 - Adjust the desired sampling rate in the settings Section ② Measurement interval(s).
 - Tap the “Start” button at the bottom of the app to start recording.
 - Once the recording is complete, click the “Stop” button to cease the process.
 - Click “Save” to store the recorded data points.

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- Data logging within the meter
 - Connect the lux meter to the “LUXLab PRO” app and configure the desired sampling rate in settings Section ① Save Time Interval.
 - After configuring settings in the app, press the “REC” or turn on the memory switch, and then click “storage settings save” to initiate recording. When recording begins, the “REC” characters will flash on the screen.
 - Once the recording is complete, press the “REC” or turn off the memory switch, and then click “storage settings save” to stop the recording.
 - Click the “storage data read” button in Section ① to export the data to the app.

5. Data Exportation

- Click the “Folder” button to access the document interface.
- Use “moreDelete” button for multiple deletions.
- Select the desired data set and then swipe left to share or delete.

PC SOFTWARE

1. Install the software

Install the software. Please download and install the “IlluminanceMeter” software from the QR code or URL on right.

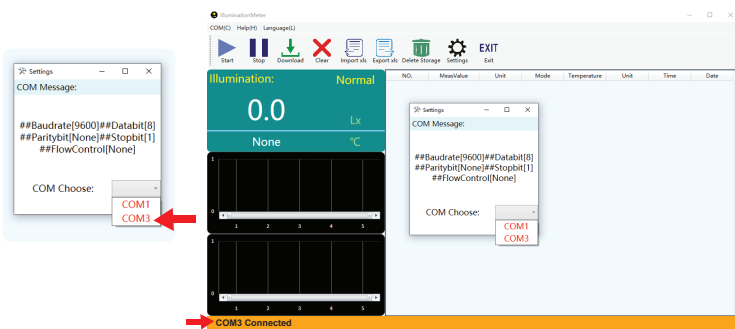


URL
www.cd50.net/426

9

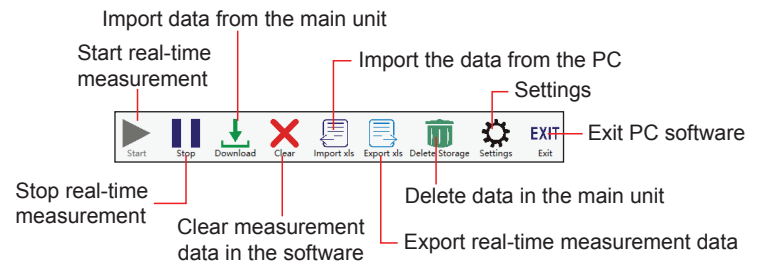
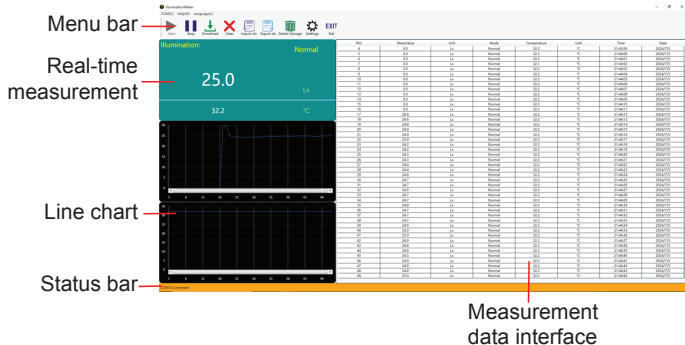
2. Connect the lux meter to computer.

- Open the software and then connect the meter to the computer.
- Select the correct port (in this example, the port is COM3), and the message “COM3 Connected” will display in the lower left corner of the software.

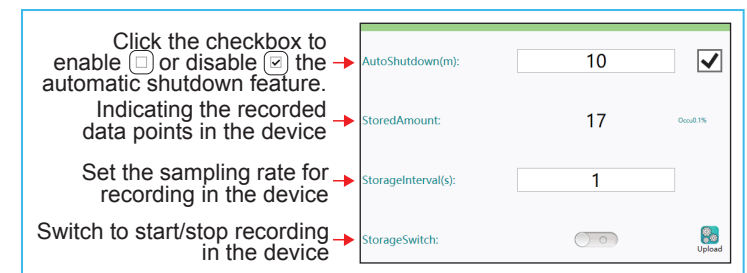


3. PC Software Interface

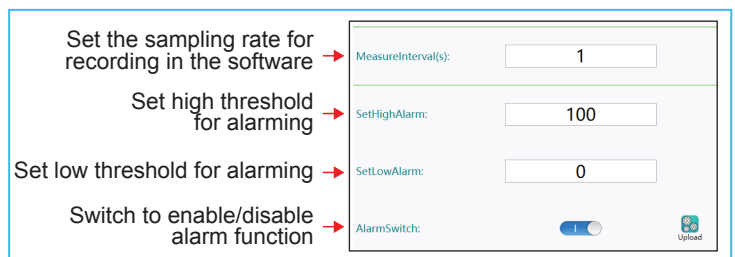
MEASUREMENT INTERFACE



SETTING INTERFACE



Note: After entering the desired value for the above parameters, must click the button to apply the changes.



Note: After entering the desired value for the above parameters, must click the button to apply the changes.

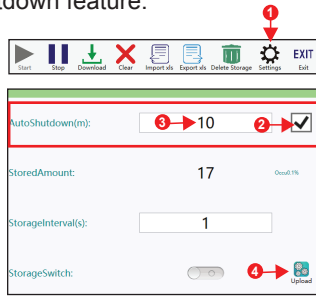
10

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4. Automatic shutdown

Go to “” and then locate the Auto Shutdown(m) setting.

- Check the checkbox
- In the adjacent text field, enter the desired automatic shutdown time in minutes. The valid range is between 01 and 99 minutes.
- Click the “” button to save the settings and enable the automatic shutdown feature.



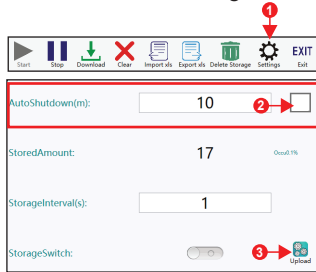
5. Cancel automatic shutdown

Cancel in the meter:

- Short press the “” button and the indicator “” will disappear, indicating that the automatic shutdown has been canceled.

Cancel in the software:

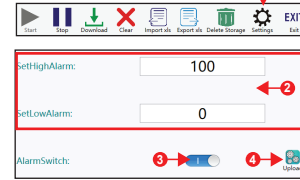
- Go to “” Auto Shutdown(m).
- Uncheck the checkbox.
- Click “” button to save the settings.



6. Setting buzzer alarm and value

- Navigate to the “” menu
- Locate the “SetHighAlarm” and “SetLowAlarm” options.
- Enter the desired alarm values. The alarm value unit will be consistent with the unit used by the device.
- Turn on the alarm switch.
- Click “” to save the alarm settings and enable the alarm function.

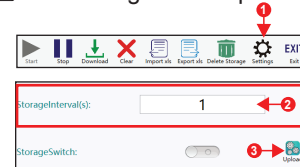
Notes: The high alarm value must be greater than the low alarm value. When the lux value exceeds the set alarm value, the device will emit a high-frequency “did” sound.



7. Types of data recording

Data logging on the meter:

- Setting data logging interval:
 - Navigate to the “” menu.
 - Locate the “StorageInterval(s)” option.
 - Enter the desired interval value (range: 1 to 9999 seconds).
 - Click “” to save the new interval setting.
- Starting/stopping recording:
 - After powering on, press the “” button to start recording. **REC** will be displayed and flash on the LCD.
 - Press the “” button again to stop recording.

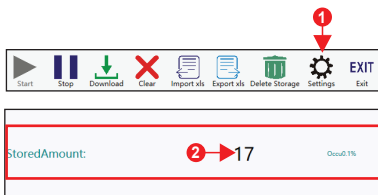


(3) Viewing logged data:

- In the software, navigate to the “” option to view the logged records.

(4) Checking stored data amount:

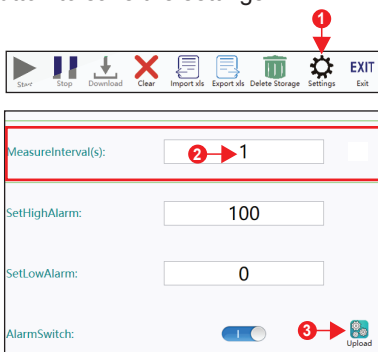
- Navigate to the “” menu.
- Locate the “StoredAmount” option.
- You can view the number of recorded data points and the storage space occupied.
- The device has a maximum storage capacity of 32752 data points



Data logging in the IlluminanceMeter software

(1) Setting data logging interval:

- Go to the “” menu.
- Locate the “MeasureInterval(s)” option.
- Enter the desired interval value (range: 1~9999 seconds).
- Click “” button to save the settings.



(2) Starting/stopping recording:

- Return to normal measurement interface of the software
- Click the button/ button to begin/end data logging.

(3) Viewing logged data:

- In the Measurement Data interface, you can view the:
 - *Measurement value
 - *Measurement unit
 - *Date and time of the measurement
- As you make measurements, the changes in unit, mode, etc. will be updated in the PC software in real-time.

(4) Stored Data Amount:

The PC software has unlimited storage capacity for the recorded data. Note that the more data is recorded, the longer it may take to output the data

8. Data delete:

(1)Deleting stored data in the meter:

- After power on, long press the “” button until the LCD displays “**DEL**”, indicating that all stored data in the meter has been deleted.
- Alternatively, you can click the “” button in the software to delete all stored data in the meter.

(2) Deleting data stored in the PC Software: Click the “” icon to delete all stored data in the software.