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Dr.meter LX1330B-V

Dr.meter LX1330B Digital Illuminance Light Meter

User Manual

1. INTRODUCTION

The Dr.meter LX1330B Digital Illuminance Light Meter is a high-precision instrument designed for measuring light intensity in various environments. It provides fast and accurate readings, making it suitable for a wide range of applications including home, office, factory, and plant cultivation settings. This manual provides detailed instructions on the setup, operation, maintenance, and troubleshooting of your LX1330B light meter.



Figure 1.1: Dr.meter LX1330B Digital Illuminance Light Meter

2. PRODUCT OVERVIEW

2.1 Package Contents

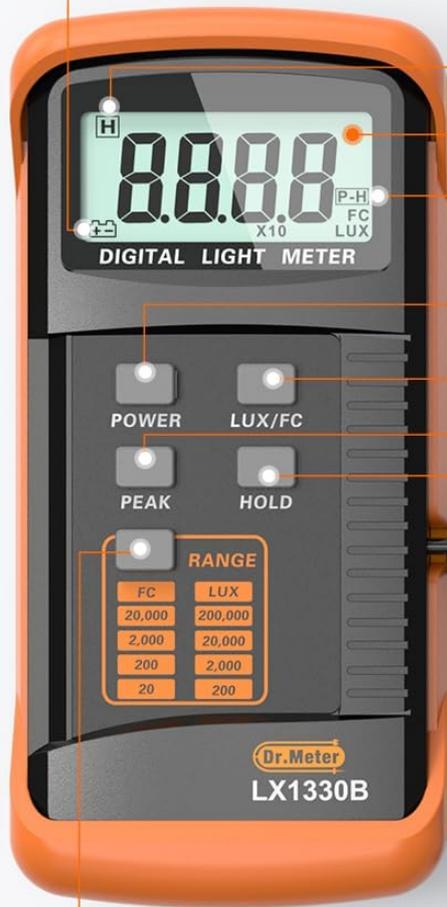
Upon opening the package, please verify that all the following items are included:

- 1 x Dr.meter LX1330B Light Meter
- 1 x Protective Jacket (Orange)
- 1 x User Manual
- 1 x Screwdriver
- 1 x 9V Battery
- 1 x Spare Screw

Product Description



Low Battery Warning



Data Hold Mode

LCD Display

Data Peak Mode

Power on/off button

LUX/FC Switch Button

Data-Peak Button

Data-Hold Button

Photo Detector



Range Button

Retractable Spring Cord

Figure 2.1: Package Contents

2.2 Key Features

- **High Precision & Fast Response:** Delivers readings 2 times per second for accurate light intensity data.
- **FC/LUX Conversion:** Easily switch between Foot-Candle (FC) and Lux (LUX) units.
- **PEAK Data Recording:** Captures and displays the highest light pulse value.
- **Low Battery Alert:** Indicates when the 9V battery needs replacement.
- **Versatile Usage:** Suitable for indoor and outdoor environments, including homes, offices, factories, and plant growth areas.

- **Split Sensor Design:** Allows for 360-degree rotation of the sensor for flexible measurement.
- **Durable & Drop-Proof:** Equipped with a protective rubber jacket for enhanced durability.

2.3 Product Components

Familiarize yourself with the different parts of your light meter:

Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2013

INFORMATION	Value	Unit																																					
1. Supplier name or trademark	SHENZHEN JINGLEI ELECTRONICS CO., LTD																																						
2. Model identifier	JL8665																																						
3. Energy Efficiency Class for Standard Dynamic Range (SDR)	A																																						
4. On mode power demand for Standard Dynamic Range (SDR)	3,0	W																																					
5. Energy Efficiency Class for High Dynamic Range (HDR)	N/A																																						
6. On mode power demand in High Dynamic Range (HDR) mode	N/A																																						
7. Off mode, power demand	1,0	W																																					
8. Standby mode power demand	1,2	W																																					
9. Networked standby mode power demand	N/A																																						
10. Electronic display category	monitor																																						
11. Size ratio	56:33																																						
12. Screen resolution (pixels)	Broken code screen (断码屏)	pixels																																					
13. Screen diagonal	6,5	cm																																					
14. Screen diagonal	2,6	inch																																					
15. Visible screen area	18	cm ²																																					
16. Panel technology used	LCD																																						
17. Automatic Brightness Control (ABC) available	NO																																						
18. Voice recognition sensor available	NO																																						
19. Room presence sensor available	NO																																						
20. Image refresh frequency rate	60	Hz																																					
21. Minimum guaranteed availability of software and firmware updates (until):	31.12.2024																																						
22. Minimum guaranteed availability of spare parts (until)	31.12.2024																																						
23. Minimum guaranteed product support (until)	31.12.2024																																						
24. Power supply type:	-																																						
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Figure 2.2: Labeled Components of the LX1330B

- **LCD Display:** Shows measurement readings, units (LUX/FC), and mode indicators.
- **Power On/Off Button:** Turns the device on or off.
- **LUX/FC Switch Button:** Toggles between Lux and Foot-Candle measurement units.
- **PEAK Button:** Activates PEAK data recording mode.
- **HOLD Button:** Freezes the current reading on the display.
- **RANGE Button:** Adjusts the measurement range.
- **Photo Detector:** The sensor head that measures light intensity.
- **Retractable Spring Cord:** Connects the photo detector to the main unit.
- **Low Battery Warning Indicator:** A symbol (+ -) on the LCD indicating low battery.

3. SETUP

3.1 Battery Installation

The Dr.meter LX1330B requires one 9V battery (included). Follow these steps to install the battery:

1. Carefully remove the orange protective rubber frame from the main unit.
2. Locate the battery compartment on the back of the unit. Use the provided screwdriver to remove the screw securing the battery door.
3. Remove the battery door.
4. Connect the 9V battery to the positive and negative terminals inside the compartment. Ensure correct polarity.
5. Place the battery into the compartment.
6. Replace the battery door and secure it with the screw.
7. Re-attach the orange protective rubber frame to the main unit.

Replace the Battery Easily



1 Remove the orange frame



2 Remove the screws on the battery door



3 Remove the battery door



4 Remove the positive and negative sockets



5 Install the battery



6 Put it into the battery compartment and install the battery cover

Figure 3.1: Battery Installation Steps

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the **POWER** button to turn the light meter on. Press it again to turn the device off.

4.2 Selecting Measurement Units (LUX/FC)

The meter can display readings in either Lux (LUX) or Foot-Candle (FC). To switch between these units, press the **LUX/FC** button.

4.3 Adjusting Measurement Range

The LX1330B has multiple measurement ranges to accommodate different light intensities. If the display shows "1", it indicates that the light intensity exceeds the current range. Press the **RANGE** button to cycle through the available ranges until a valid reading is displayed. The meter offers ranges up to 200,000 Lux or 18,580 FC.

4.4 Data Hold Function

To freeze the current reading on the display, press the **HOLD** button. Press it again to release the hold and resume live measurements.

4.5 PEAK Data Recording

The PEAK function allows you to capture and display the highest light pulse value. This is particularly useful for measuring brief, high-intensity light sources. To activate, press the **PEAK** button.

4.6 Taking Measurements

Point the photo detector (sensor head) towards the light source you wish to measure. Ensure the sensor is clean and unobstructed. The reading will be displayed on the LCD. For accurate results, avoid direct measurement of photography lights or other extremely high brightness sources that may exceed the meter's range and potentially damage the sensor.

Split Sensor High Accuracy

360° Rotation measurement without movement



Sampling every

0.5S

Figure 4.1: Measuring light with the split sensor

4.7 Common Luminosity Reference

The following table provides a general reference for common luminosity levels in Lux:

Common Luminosity Reference



Figure 4.2: Common Luminosity Reference

Lux Range	Environment
100 - 300 Lux	Home daily lighting
300 - 500 Lux	Office and conference room
500 - 1,000 Lux	Indoor gymnasium lighting
1,000 - 2,000 Lux	Laboratory precision operation

Lux Range	Environment
2,000 - 5,000 Lux	Industrial assembly line
5,000 - 10,000 Lux	Plant growth (medium and high light)
10,000 - 25,000 Lux	Outdoor shadow area monitoring
32,000+ Lux	Direct sunlight monitoring

5. MAINTENANCE

5.1 Cleaning

To ensure accurate readings and prolong the life of your meter, keep the photo detector (sensor) clean and free from dust or smudges. Use a soft, dry cloth to gently wipe the sensor and the meter's body. Do not use abrasive cleaners or solvents.

5.2 Battery Replacement

When the low battery indicator (+ - symbol) appears on the LCD, it's time to replace the 9V battery. Refer to Section 3.1 for detailed battery installation instructions.

5.3 Storage

When not in use, store the light meter in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the sensor protective cover is closed to prevent dust and scratches. If storing for an extended period, it is recommended to remove the battery to prevent leakage.

6. TROUBLESHOOTING

- **Meter does not power on:**

- Check if the 9V battery is correctly installed.
- Replace the battery if it is depleted.

- **Display shows "1":**

- This indicates that the measured light intensity is out of the current range. Press the **RANGE** button to select a higher measurement range.

- **Inaccurate or inconsistent readings:**

- Ensure the photo detector (sensor) is clean and free from dust or obstructions.
- Verify that the sensor is pointed directly at the light source.
- Check the battery level; low battery can affect accuracy.
- Avoid measuring extremely high brightness sources that could damage the sensor.

- **Buttons are unresponsive:**

- Try turning the meter off and on again.
- Ensure the battery is not low.

7. SPECIFICATIONS

Specification	Value
Model Number	LX1330B-V
Measurement Range (Lux)	0 - 200,000 Lux
Measurement Range (FC)	0 - 18,580 FC
Accuracy	±3%
Repeatability	±2%
Power Source	1 x 9V Battery (included)
Item Weight	12 ounces
Product Dimensions	4 x 1 x 8 inches
Material	ABS
Manufacturer	Dr.meter

8. WARRANTY AND SUPPORT

8.1 Warranty Information

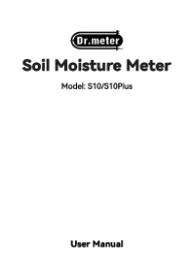
The Dr.meter LX1330B Digital Illuminance Light Meter typically comes with a 1-year limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation provided with your product or contact Dr.meter customer support.

8.2 Customer Support

For any questions, technical assistance, or support regarding your Dr.meter LX1330B, please contact Dr.meter customer service. You can also refer to the official user manual PDF for additional details:

[Download Official User Manual
\(PDF\)](#)

Related Documents - LX1330B-V

	<p>Dr. meter LX1010BS Digital Illuminance Meter - Operation Manual</p> <p>Comprehensive operation manual for the Dr. meter LX1010BS Digital Illuminance Meter, covering features, specifications, operating instructions, maintenance, and recommended illumination levels.</p>
	<p>Dr. meter LX1332B Digital Lux Meter Operation Manual</p> <p>Comprehensive operation manual for the Dr. meter LX1332B Digital Lux Meter, covering features, specifications, panel descriptions, operation instructions, maintenance, and recommended illumination levels for various environments.</p>
	<p>Dr. meter Soil Moisture Meter S10/S10Plus User Manual</p> <p>User manual for the Dr. meter Soil Moisture Meter, models S10 and S10Plus. Provides instructions, important notes, and FCC statement for operating the soil moisture meter.</p>
	<p>Dr. meter Rechargeable Electric Pump User Manual</p> <p>User manual for the Dr. meter 2-in-1 Rechargeable Electric Pump for pools, featuring USB charging and three detachable nozzles. Includes operating instructions and safety information.</p>
	<p>Dr. meter DR-BM720 720P HD Digital Color Video Baby Monitor User Manual</p> <p>Comprehensive user manual for the Dr. meter DR-BM720 720P HD Digital Color Video Baby Monitor, covering specifications, setup, functions, operations, product diagrams, FAQ, and FCC statement.</p>
	<p>Dr. meter HT-420 Rechargeable Electric Air Pump User Manual</p> <p>Comprehensive user manual for the Dr. meter HT-420 rechargeable electric air pump. Learn how to charge, inflate, and deflate items safely and effectively. Includes important warnings and FCC statement.</p>