Dr.meter LX1332B

Dr.meter LX1332B Professional Digital LED Light Meter User Manual

Brand: Dr.meter | Model: LX1332B

Official Dr.meter Product

1. Introduction and Overview

The Dr.meter LX1332B Digital LED Light Meter is a professional instrument designed for accurate measurement of light levels. It is suitable for various light sources including fluorescent, metal halide, high-pressure sodium, incandescent, and LED lights. This device provides quick and precise readings, making it an essential tool for ensuring optimal lighting conditions in diverse environments.

Proper lighting is crucial for various applications, from maintaining plant health to setting up photography shots. The LX1332B utilizes advanced detection technology to gauge light levels rapidly and reliably.

Image 1.1: The Dr.meter LX1332B Digital LED Light Meter, a handheld device with a rotatable sensor and digital display.

2. Product Features

- **Professional LED Light Meter:** Measures brightness up to 200,000 lux for various light types including fluorescent, metal halide, incandescent, and high-pressure sodium lights, ensuring precise luminosity.
- **Ultra Fast, Ultra Precise:** Features an advanced built-in calibration sensor that measures light levels at a speed of twice per second for accurate readings.
- **Easy and Intuitive Operation:** Simple to use; just power on, point at the light source, and read the display. Includes 4 adjustable measuring ranges (200lux, 2,000lux, 20,000lux, 200,000lux).
- **Preprogrammed Settings:** Equipped with features like auto power off, data hold, and unit adjustment for user convenience.
- **270 Degree Rotatable Detector:** The optical detector can rotate a full 270 degrees, allowing for multi-directional light detection.
- **Tripod Mountable:** Designed with a screw base for mounting on a tripod, enabling hands-free operation.

3. Package Contents

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

- 1 x Dr.meter Digital LED Light Meter (Model LX1332B)
- 1 x Carrying Bag
- 1 x 9V Battery
- 1 x User Manual

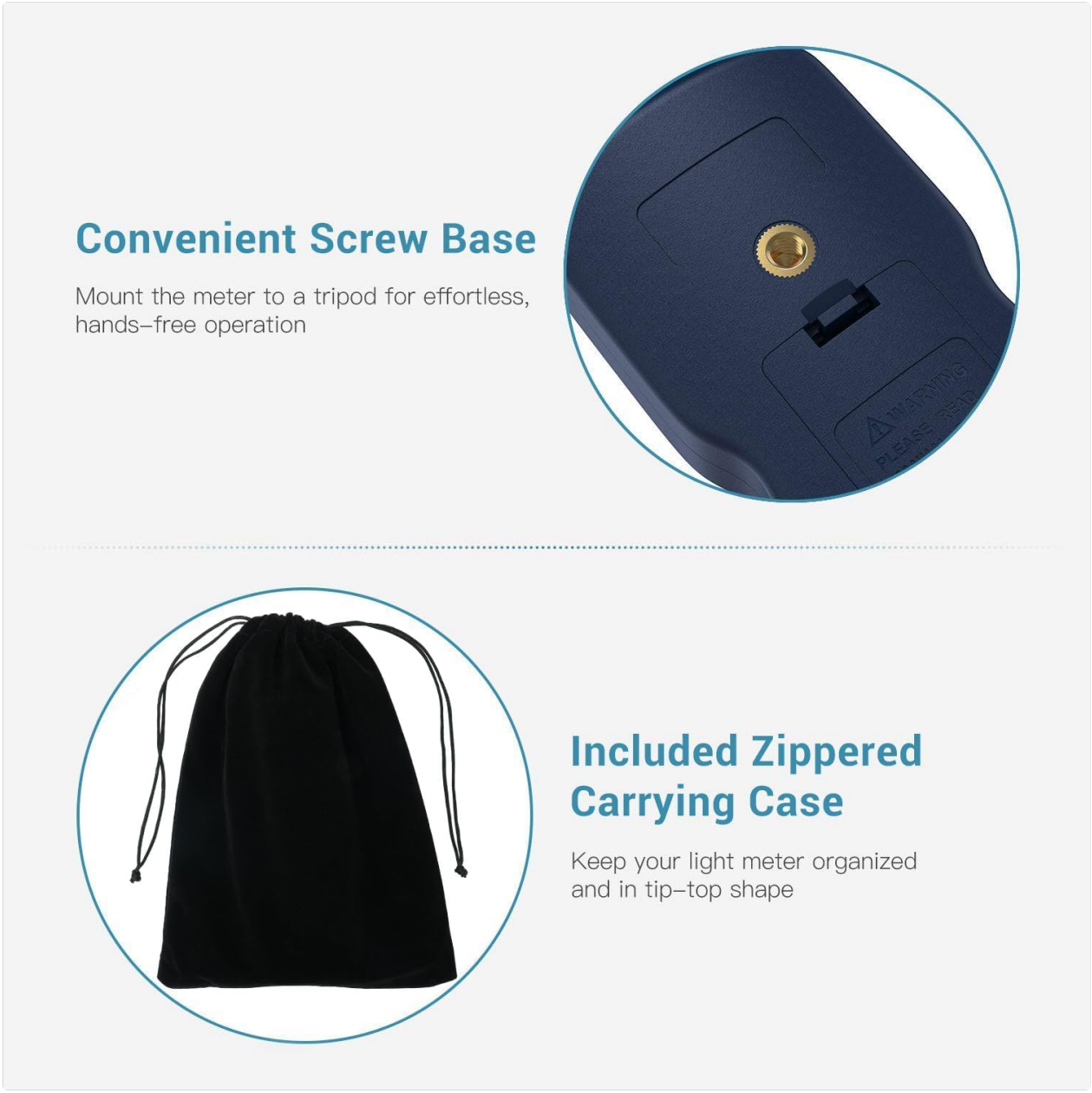

Image 3.1: The Dr.meter LX1332B showing its convenient screw base for tripod mounting and the included zippered carrying case.

4. Setup

1. **Battery Installation:** Open the battery compartment cover on the back of the device. Insert the provided 9V battery, ensuring correct polarity. Close the cover securely.
2. **Power On:** Press the red power button (**U**) located on the front panel to turn on the device. The LCD display will illuminate.
3. **Sensor Orientation:** The photo detector can be rotated 270 degrees. Adjust its position to face the light source you intend to measure.
4. **Optional Tripod Mounting:** For hands-free operation or stable measurements, attach the meter to a standard tripod using the screw base located on the back of the unit.

Image 4.1: Diagram illustrating the main components of the Dr.meter LX1332B, including the photo sensor, LCD display, power button, data hold button, range select button, LUX unit select button, and FC unit select button.

5. Operating Instructions

1. **Power On:** Press the red power button (**U**) to turn on the light meter.
2. **Select Measurement Unit:** Press the **LUX** button to measure in Lux or the **FC** button to measure in Foot-Candles. The selected unit will be displayed on the LCD.
3. **Adjust Measuring Range:** The meter automatically selects the appropriate range. However, you can manually adjust the range if needed by pressing the **R** (Range) button. The available ranges are 200lux, 2,000lux, 20,000lux, and 200,000lux.
4. **Take a Reading:** Point the photo detector towards the light source. The light level will be displayed on the LCD screen. The reading updates approximately twice per second.
5. **Data Hold Function:** To freeze the current reading on the display, press the **DH** (Data Hold) button. Press it again to release the hold and resume live readings.
6. **Auto Power Off:** The device features an auto power-off function to conserve battery life. It will automatically turn off after a period of inactivity.

7. **Decimal Point Adjustment:** The meter allows for adjustment of decimal points for more precise readings, as demonstrated in the video below.

Image 5.1: The Dr.meter LX1332B's photo detector rotating 270 degrees, allowing for flexible measurement from various angles.

Demonstration Video: Light Meter for LED Lights

Your browser does not support the video tag.

Video 5.1: A user demonstrating the Dr.meter LX1332B light meter, showing how to install the battery, power on the device, switch between Lux and Foot-Candle units, and observe light level changes when moving closer to a light source. This video highlights the meter's utility for measuring light levels for plants.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the photo detector is free from dust and debris for accurate readings.
- **Storage:** When not in use, store the light meter in its carrying bag in a cool, dry place, away from direct sunlight and extreme temperatures.

- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display to ensure continuous and accurate operation.

7. Troubleshooting

- **No Display/Device Not Turning On:**
  - Check if the 9V battery is correctly installed with proper polarity.
  - Replace the battery with a new one if it is depleted.
- **Erratic or Inaccurate Readings:**
  - Ensure the photo detector is clean and free from obstructions.
  - Verify that the detector is pointed directly at the light source.
  - Confirm the correct measurement unit (Lux or FC) is selected for your application.
  - If the display shows '1' and other digits disappear, this may indicate an issue with LED light measurement for some units. Ensure the meter is designed for LED light sources and contact customer support if the issue persists.
- **Display Shows 'OL' (Overload):** This indicates that the measured light intensity exceeds the current range. Press the `R` button to switch to a higher measuring range.

8. Specifications

Specification	Value
Display	3 1/2 digits LCD display
Power	9V battery
Ranges	0.1-200/2,000/20,000/200,000 Lux; 0.01-20/200/2,000/20,000 FC
Accuracy	+/-4% 10 digits (0-20,000 lux) / +/-5% 10 digits (over 20,000 Lux)
Repeatability	+/-2%
Temperature Characteristic	+/-0.1%C
Photo Detector Type	Silicon Photo Diode with Filter
Operating Temperature	32-104 degrees F (0-40 degrees C)
Sampling Time	2 times/sec
Battery Life (estimated)	200 hours
Dimensions (Meter)	185 x 68 x 38mm
Photo Detector Dimensions	100 x 60 x 28 mm
Weight	About 130g (4.6 oz)

Specification	Value
Overload Indication	+/-1

9. Warranty and Support

For warranty information, technical support, or any inquiries regarding your Dr.meter LX1332B Digital LED Light Meter, please refer to the official Dr.meter website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

You can visit the Dr.meter store for more information:Dr.meter Official Store