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› BSIDE L1 Digital Lux Meter Instruction Manual

BSIDE L1

BSIDE L1 Digital Lux Meter Instruction Manual

Model: L1

1. INTRODUCTION

Thank you for choosing the BSIDE L1 Digital Lux Meter. This device is designed for accurate measurement of ambient light intensity, providing readings in Lux (lx) or Foot-Candles (Fc). It is suitable for a wide range of applications, including photography, plant growth monitoring, office and home lighting assessment, and industrial environments.

Key features include:

- Ambient brightness measurement
- Four switchable measurement ranges
- Lux/Fc unit conversion
- Maximum and Minimum value display
- Automatic ranging
- Data hold function
- Automatic power-off
- Low battery indication



Figure 1: The BSIDE L1 Digital Lux Meter being used in diverse environments such as a photography studio, a greenhouse for plant monitoring, a bedroom, and a laboratory.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Keep the device away from strong electromagnetic fields.
- Remove the battery if the device will not be used for an extended period to prevent leakage.
- Dispose of batteries and the device according to local regulations.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and undamaged:

- BSIDE L1 Digital Lux Meter
- English User Manual

Note: A 9V battery is required for operation and is not included in the package.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your BSIDE L1 Digital Lux Meter:



Figure 2: Labeled components of the BSIDE L1 Digital Lux Meter.

1. **Lid:** Protects the measurement sensor when not in use.
2. **Measurement Sensor:** Detects ambient light intensity.
3. **LCD Display:** Shows measurement readings, units, and other indicators.

4. **Power On/Off Button ():** Press to turn the device on or off.
5. **MODE Button:** Short press to switch between Lux and Fc units. Long press to activate MAX/MIN/AVG display mode.
6. **HOLD Button:** Short press to hold the current reading on the display. Long press to switch between automatic and manual ranging.

5. SETUP

5.1 Battery Installation

The BSIDE L1 Lux Meter requires one 9V battery (not included).

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert a new 9V battery, ensuring correct polarity (+ and -).
4. Close the battery compartment cover securely.

Note: A low battery indicator will appear on the LCD when the battery needs replacement.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the red button to turn the lux meter on. Press it again to turn the device off.

6.2 Taking a Measurement

1. Ensure the protective lid is removed from the measurement sensor.
2. Point the measurement sensor towards the light source or area you wish to measure.
3. The current light intensity will be displayed on the LCD.





Figure 3: Taking a light measurement with the BSIDE L1 Lux Meter, showing a reading of 729 Lux.

6.3 Unit Switching (Lux/Fc)

Short press the **MODE** button to toggle between Lux (lx) and Foot-Candle (Fc) units.

6.4 Data Hold Function

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

6.5 MAX/MIN/AVG Measurement

Long press the **MODE** button to enter MAX/MIN/AVG recording mode. The display will cycle through the maximum,

minimum, and average light intensity recorded since entering this mode. Long press **MODE** again to exit.

6.6 Ranging (Auto/Manual)

The device defaults to automatic ranging. Long press the**HOLD** button to switch between automatic and manual ranging. In manual ranging, you can cycle through the available ranges (200, 2000, 20000, 200000 Lux) by short pressing the **HOLD** button.

6.7 Automatic Power-Off

To conserve battery life, the device will automatically power off after approximately 15 minutes of inactivity. This feature can typically be disabled by holding a specific button during power-on (refer to advanced features if available in a more detailed manual, not specified in current data).

6.8 Photometric Reference Values

The following table provides common photometric reference values for various environments:



Figure 4: Common photometric values for various settings.

Common Photometric Reference Values

Environment	Lux Range
Warehouse, Garage, Darkroom, Lounge	30-75 Lux
Corridor, Toilet, Changing Room, Canal, Guest Room	75-150 Lux

Environment	Lux Range
Classroom, Hall, Restaurant, Sickroom	150-300 Lux
Laboratory, Conference Room, Kitchen	300-750 Lux
Operating Room, Counter, Workshop, Film Studio	750-1500 Lux
Ultra-precision Workshop, Outdoor Area	1500-3000 Lux
Visual Function Examination Room	10000-30000 Lux

7. MAINTENANCE

7.1 Cleaning

To ensure accurate readings and prolong the life of your device:

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Keep the measurement sensor clean and free from dust or debris.

7.2 Storage

When not in use, store the lux meter in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the protective lid is placed over the sensor.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is dead or incorrectly installed.	Replace the 9V battery or check its polarity.
Inaccurate readings.	Sensor is dirty or obstructed. Device is in the wrong measurement range.	Clean the sensor. Ensure the device is in auto-ranging mode or select an appropriate manual range.
Display shows "OL" or "OVER".	Measurement exceeds the current range.	Switch to a higher measurement range (if in manual mode) or ensure auto-ranging is active.
Display shows low battery icon.	Battery power is low.	Replace the 9V battery.

9. SPECIFICATIONS

Feature	Specification
Display	Large LCD
Units	Lux (lx) & Foot-Candle (Fc)
Lux Range	0.1 - 200,000 Lux (4 ranges: 200/2000/20000/200000)
Fc Range	0.01 - 20,000 Fc (4 ranges: 20/200/2000/20000)
Resolution	0.1 Lux / 0.01 Fc
Accuracy	±4%
Sampling Rate	2 times / second
Power Supply	1 x 9V Battery (not included)
Operating Environment	-10 to 50°C (14 to 122°F), 10% - 90% RH
Dimensions	145 x 67 x 32 mm (5.7 x 2.6 x 1.3 inches)
Weight	98g (excluding battery)
Color	Grey

10. WARRANTY AND SUPPORT

10.1 Product Warranty

This product comes with a 2-year warranty from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, unauthorized modification, accident, or normal wear and tear.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact your retailer or visit the official BSIDE website for support information.

Online Resources: www.bside.com (Example link, replace with actual if available)

