

Mcbazel MT-gf-020485

Mcbazel Digital Illuminance Light Meter (Model MT-gf-020485) Instruction Manual

Brand: Mcbazel | Model: MT-gf-020485

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your Mcbazel Digital Illuminance Light Meter. This device is designed for accurate measurement of light intensity (illuminance) in various environments, including schools, hospitals, factories, airports, homes, and for professional applications like photography and plant growth monitoring. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the meter to strong impacts.
- Keep the light sensor clean and free from obstructions for accurate readings.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage.
- Replace batteries promptly when the low battery indicator appears to ensure continuous and accurate operation.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1x Mcbazel Digital Illuminance Light Meter
- 1x Instruction Manual (this document)

Note: Batteries are not included and must be purchased separately. The device requires 3 x 1.5V AAA

batteries.

4. PRODUCT OVERVIEW AND FEATURES

The Mcbazel Digital Illuminance Light Meter is a versatile tool designed for precise light intensity measurements. Key features include:

- **Wide Measuring Range:** Measures up to 200,000 LUX with high sensitivity for accurate and fast response.
- **High Accuracy:** Lighting accuracy of $\pm 3\% \pm 10$ dgts (< 10000 LUX) and $\pm 4\% \pm 10$ dgts (> 10000 LUX).
- **User-Friendly Design:** Easy switching between LUX and FC units.
- **LCD Display with Backlight:** Ensures clear visibility of readings in various lighting conditions.
- **Multifunctional:** Measures current, maximum, and minimum brightness values.
- **Data Hold Function:** Freezes the current reading on the display for convenient recording.
- **Energy Efficient:** Features automatic shut-off and a low battery indicator.



Image 1: Overview of the Mcbazel Digital Illuminance Light Meter highlighting its eight main features.

5. SETUP

5.1 Battery Installation

The Mcbazel Digital Illuminance Light Meter requires 3 x 1.5V AAA batteries (not included). To install or replace batteries:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open or unscrew it if applicable.
3. Insert three 1.5V AAA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover securely.



Image 2: The back of the light meter showing the battery compartment for 3x AAA batteries.

5.2 Sensor Protection Cover

Before use, remove the sensor protection cover from the top of the light meter. Remember to replace it after use to protect the sensitive illumination sensor.

LCD WITH BACKLIGHT

Easily read data in
any environment



Backlight
OFF



Backlight
ON 

Image 3: The light meter with its sensor protection cover open, revealing the white light sensor.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the **Power Button** (red button) to turn the device on. The LCD display will illuminate. To turn off, press and hold the Power Button. The device also features an automatic shut-off function after 5 minutes of inactivity to conserve battery life.

6.2 Unit Selection (LUX/FC)

Press the **MODE Button** to switch between Lux (illumination) and FC (foot-candle) units. The selected unit will be displayed on the screen.

HIGH ACCURACY



Image 4: The light meter displaying measurements in both Lux and FC units, illustrating the unit switch function.

6.3 Backlight Function

Press the **Backlight Switch Button** (light bulb icon) to turn the LCD backlight on or off. This improves readability in dark environments.

2 MEASURE UNITS

0.1-200,000 LUX \rightleftharpoons 0.1-20,000 FC

MODE One key switch illuminate unit: LUX, FC



Image 5: The light meter's LCD display with the backlight turned off and on, demonstrating improved visibility.

6.4 Data Hold Function

Press the **HOLD Button** to freeze the current reading on the display. Press it again to release the hold and resume live measurements. This is useful for recording stable readings.

DATA HOLD

Freeze and record the measurement



Image 6: The light meter displaying various held data values, illustrating the data hold feature.

6.5 MAX/MIN Measurement

Press the **MAX/MIN Button** to cycle through current, maximum (MAX), and minimum (MIN) recorded values during a measurement session. This allows you to track fluctuations in light intensity.

WIDE RANGE

Measure luminosity

0.1-200,000

LUX

0.1-20,000

FC



Image 7: The light meter displaying readings in Minimum, Maximum, and Relative modes.

6.6 Range Selection

The device automatically selects the appropriate measurement range. However, if needed, you can manually adjust the range using the **RANGE Button** to optimize accuracy for specific light levels.

7. SPECIFICATIONS

Feature	Specification
Manufacturer	Mcbazel
Model Number	MT-gf-020485
Item Weight	110 g
Product Dimensions	16.6 x 5.7 x 3.8 cm
Color	Black
Material	ABS

Feature	Specification
Measurement Accuracy	$\pm 3\% \pm 10 \text{dgts}$ (<10000LUX), $\pm 4\% \pm 10 \text{dgts}$ (>10000LUX)
Measuring Range	Up to 200,000 LUX
Batteries Required	3 x 1.5V AAA (Not Included)
Included Components	Digital Illuminance Light Meter, Instruction Manual

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the light sensor is free of dust and debris.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage and store the device in a cool, dry place with the sensor protection cover in place.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Refer to Section 5.1 for battery installation instructions.

9. TROUBLESHOOTING

- **Device does not power on:** Check if batteries are installed correctly and have sufficient charge. Replace batteries if necessary.
- **Inaccurate readings:** Ensure the light sensor is clean and unobstructed. Verify that the correct measurement unit (LUX/FC) is selected. Avoid measuring light sources that are not ordinary light (e.g., LED lights, photographic lights, plant growth lights) as this meter is not designed for them.
- **Display is dim:** Activate the backlight function. Replace batteries if the display remains dim.

10. PRODUCT VIDEOS

S8608 Digital Light Meter by Soonkoda CA

Your browser does not support the video tag.

Video 1: This video demonstrates the basic operation of the S8608 Digital Light Meter, including power on, unit switching, and data hold functions.

Dr.meter Light Meter by Hisgadget Canada

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Video 2: A demonstration of the Dr.meter Light Meter, showing how to replace batteries and use various functions like unit selection and data hold.

Digital Light Meter by Milano2008

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Video 3: This video provides a quick overview of a digital light meter, demonstrating its features and ease of use in different settings.

Light Meter AP-881E by Aoputt

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Video 4: A detailed look at the AP-881E Light Meter, covering its functions and how to obtain accurate light

measurements.

DEWINNER Digital Light Meter by NIXING LTD

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Video 5: This video showcases the DEWINNER Digital Light Meter, demonstrating its features and practical applications for light measurement.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided on the product packaging or visit the official Mcbazel website. Keep your purchase receipt as proof of purchase for any warranty claims.