

Manuals.plus /

› LIBODD /

› LIBODD TA632B/TA632A Digital Light Meter User Manual

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LIBODD TA632B/TA632A Digital Light Meter User Manual

Model: TA632B, TA632A

INTRODUCTION





Image: The LIBODD TA632B Digital Light Meter, featuring its main unit and detachable light sensor probe.

Thank you for choosing the LIBODD TA632B/TA632A Digital Light Meter. This device is designed for accurate measurement of illuminance (light intensity) in various environments. It features a detachable probe for flexible positioning, a clear VA color display, and a wide measurement range, making it an essential tool for professionals and enthusiasts alike.

This manual provides detailed instructions on the setup, operation, maintenance, and troubleshooting of your light meter to ensure optimal performance and longevity.

PRODUCT COMPONENTS

Upon unpacking, please verify that all the following components are included:

- 1 x LIBODD TA632B/TA632A Digital Light Meter (main unit with detachable probe)
- 1 x Protective Carrying Case
- 1 x USB Cable (for data transfer/power, if applicable to model)
- 1 x User Instruction Manual



Image: The LIBODD TA632B Digital Light Meter shown alongside its included accessories: a protective carrying case, a USB cable, and the printed instruction manual.

PRODUCT OVERVIEW AND CONTROLS

Familiarize yourself with the various parts and controls of your light meter:



Image: A detailed diagram of the light meter, highlighting key components such as the light sensor, alarm light, display, power button, data hold button, unit switching button (Lux/Fc), and menu/mode buttons, along with approximate dimensions.

- **Light Sensor:** The primary component for detecting light intensity. Located on the detachable probe.
- **Alarm Light:** Illuminates to indicate an over-range or under-range condition based on settable limits.
- **Display:** High-contrast VA color display showing measurement readings, units, and various indicators (e.g., AUTO, HOLD, MAX/AVG/MIN, battery level).
- **Power Button (⏻):** Press to turn the device ON or OFF.
- **HOLD Button:** Freezes the current reading on the display. Press again to release.
- **Lux/Fc Button:** Toggles between Lux and Foot-candle measurement units.
- **MODE Button:** Cycles through measurement modes such as Maximum (MAX), Minimum (MIN), and Average (AVG) readings.
- **MAX/AVG/MIN Button:** Activates the respective display mode for recorded data.
- **Increase/Decrease Data Buttons (▲ / ▼):** Used for navigating menus or adjusting settings.

SETUP

1. Battery Installation

The light meter requires 3 x AA 1.5V batteries for operation. To install or replace batteries:

1. Locate the battery compartment on the back of the device.
2. Open the battery cover by sliding or unlatching it.
3. Insert three AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery cover securely.

2. Attaching the Detachable Probe

The light sensor is connected via a coiled cable, allowing for flexible positioning:

- Ensure the coiled cable is securely plugged into the main unit's port.
- The probe can be rotated and positioned at various angles (0°, 45°, 90°, 180°) relative to the main unit for optimal light capture.



Image: Visual representation of the light sensor probe's flexibility, demonstrating its ability to be angled at 0, 45, 90, and 180 degrees for diverse measurement scenarios.

OPERATING INSTRUCTIONS

1. Powering On/Off

Press the (Power) button to turn the device on. Press and hold the button for a few seconds to turn it off.

2. Taking a Measurement

Once powered on, the device will automatically begin measuring light intensity. Position the light sensor probe towards the light source or area you wish to measure. The current illuminance reading will be displayed on the VA color screen.

VA color display

Location contrast, fast response, wide viewing angle



Image: The vibrant VA color display of the light meter, providing clear and wide-angle visibility of measurement data.

3. Changing Measurement Units (Lux/Fc)

Press the **Lux/Fc** button to switch between Lux (lumens per square meter) and Foot-candle (lumens per square foot) units. The selected unit will be indicated on the display.

4. Data Hold Function

Press the **HOLD** button to freeze the current reading on the display. This is useful for recording measurements in difficult-to-view positions. Press the **HOLD** button again to resume live measurement.

5. MAX/MIN/AVG Modes

Press the **MODE** button to cycle through the following display modes:

- **MAX:** Displays the maximum light intensity recorded since the device was powered on or the mode was reset.
- **MIN:** Displays the minimum light intensity recorded.
- **AVG:** Displays the average light intensity recorded.

To reset the MAX/MIN/AVG values, power off the device or consult the full instruction manual for specific reset procedures if available.

6. Sound and Light Alarm

The device features a settable upper and lower limit for illuminance. If the measured value exceeds the upper limit or falls below the lower limit, the alarm light will illuminate, and an audible alarm may sound (depending on model and settings). This feature is useful for monitoring specific light conditions.

Sound and light alarm

Settable upper/lower limit, over range alarm



Image: The alarm light on the light meter, indicating an out-of-range measurement condition.

Refer to the detailed instruction manual for steps on how to set these alarm limits.

MAINTENANCE

1. Cleaning

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

- Wipe the meter's body with a soft, dry cloth.
- For the light sensor, use a soft, lint-free cloth. Avoid abrasive cleaners or solvents.
- Do not immerse the device in water or any liquids.

2. Storage

When not in use for extended periods, store the light meter in its protective carrying case in a cool, dry place, away from

direct sunlight and extreme temperatures. Remove batteries if storing for more than one month to prevent leakage.

3. Battery Replacement

When the battery indicator on the display shows low power, replace all three AA batteries promptly to ensure continued accurate operation. Follow the battery installation steps outlined in the Setup section.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new ones, ensuring correct +/- orientation.
Inaccurate or fluctuating readings.	Dirty light sensor; sensor not positioned correctly; strong electromagnetic interference.	Clean the light sensor with a soft cloth. Ensure the sensor is facing the light source directly. Move away from strong electrical devices.
Display shows "OL" or "LO".	Measurement is Over-Limit (OL) or Under-Limit (LO) of the device's range.	The light intensity is outside the measurable range. The device is functioning correctly but cannot provide a numerical reading for this extreme condition.
Alarm light is on constantly.	Current light level is outside the set alarm limits.	Adjust the alarm limits or move to an area with light intensity within the set range.

SPECIFICATIONS

Parameter	Detail
Model Numbers	TA632A, TA632B
Measurement Range	Up to 200,000 Lux / 20,000 Fc
Units	Lux, Foot-candle (Fc)
Display	VA Color Display
Power Supply	3 x 1.5V AA Batteries
Item Weight	Approximately 0.353 ounces (10 grams, excluding batteries)
Package Dimensions	1.18 x 0.79 x 0.39 inches (30 x 20 x 10 mm)
Device Dimensions (Approx.)	256mm (10.0 in) Length x 67mm (2.6 in) Width x 35mm (1.3 in) Thickness
Manufacturer	LIBODD

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official LIBODD website. Warranty terms and conditions may vary by region and retailer.

If you encounter any issues or have questions not covered in this manual, please contact LIBODD customer support through their official website or the retailer from whom you purchased the product. Please have your model number (TA632B or TA632A) and purchase details ready when contacting support.