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LIAMOS TA632A

TA632A Digital Light Meter User Manual

Model: TA632A

1. Introduction

The LIAMOS TA632A Digital Light Meter is a handheld illuminometer designed for accurate measurement of light intensity. It features a user-friendly split-type design, a wide measurement range up to 200,000 Lux, and a clear VA color display. This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your device.

2. Safety Information

Please read and understand all safety warnings and operating instructions before using this product. Failure to do so may result in injury or damage to the device.

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Keep the light sensor clean and free from dust or obstructions to ensure accurate readings.
- Dispose of batteries according to local regulations.

3. Product Overview

The TA632A Digital Light Meter consists of a main body with a display and control buttons, and a detachable light sensor connected by a retractable spring cable.

3.1 Components

- **Light Sensor:** Detects ambient light.
- **Main Body:** Houses the display, control buttons, and processing unit.
- **Retractable Spring Cable:** Connects the light sensor to the main body.
- **Battery Compartment:** Located on the rear of the main body.

3.2 Display and Buttons



Figure 3.2.1: Panel Introduction of the TA632A Digital Light Meter. This image illustrates the various parts of the device, including the light sensor, display, and control buttons, along with labels for display indicators such as battery level, data hold, alarm indicators, and measurement units.



Figure 3.2.2: VA Color Display. This image highlights the clear VA color display of the light meter, showing multiple lines of data including current measurement, maximum, minimum, and average values, and various status icons like AUTO, HOLD, and unit indicators (LUX, FC).

The VA color display provides clear readings and indicators. Key buttons include:

- **Power Button:** Turns the device on/off.
- **MAX/MIN/AVG Button:** Cycles through maximum, minimum, and average readings.
- **HOLD Button:** Freezes the current reading on the display.
- **LUX/FC Button:** Switches between Lux and Foot-candle units.
- **MODE Button:** Accesses additional settings or modes.
- **Up/Down Arrows:** Used for navigation or setting alarm values.

4. Setup

4.1 Battery Installation

The TA632A requires batteries for operation. Ensure correct polarity when inserting batteries.

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert the required batteries (refer to specifications for type) observing the polarity markings (+/-).
4. Close the battery compartment cover securely.

5. Operating Instructions

5.1 Powering On/Off

- Press the **Power Button** to turn the device on.
- Press and hold the **Power Button** to turn the device off.
- The device features a 15-minute auto-off function to conserve battery life.

5.2 Taking Measurements

To take a light measurement:

1. Ensure the device is powered on.
2. Position the light sensor towards the light source or area you wish to measure. The detachable sensor allows for flexible positioning.
3. Read the light intensity value displayed on the screen.



Figure 5.2.1: Measuring light with the TA632A. This image shows the light meter in use, demonstrating how the main unit is held while the detachable sensor is positioned to capture light, with a clear reading visible on the display.



Figure 5.2.2: Practical application of the light meter. This image depicts the TA632A being used to measure ambient light near a window, showcasing its versatility for various measurement scenarios.

5.3 Unit Switching (Lux/FC)

Press the **LUX/FC Button** to toggle between Lux and Foot-candle (FC) measurement units.

5.4 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 measurement.

5.5 Maximum, Minimum, and Average Values

Press the **MAX/MIN/AVG Button** to cycle through the maximum, minimum, and average light intensity values recorded during the current measurement session.

5.6 Light and Sound Alarm

The device can be configured with upper and lower limit alarm values. If the measured light intensity exceeds these limits,

an audible and visual alarm will activate.

1. Enter the alarm setting mode (refer to the device's on-screen prompts or MODE button functionality).
2. Use the Up/Down arrows to set the desired upper and lower alarm thresholds.
3. Confirm the settings.



Figure 5.6.1: Sound and Light Alarm. This image demonstrates the visual alarm feature of the light meter, with a red indicator light illuminated, signifying that a set light intensity threshold has been exceeded.

6. Maintenance

6.1 Cleaning

- Wipe the device body with a soft, dry cloth.
- For the light sensor, use a soft, lint-free cloth to gently remove any dust or smudges. Do not use abrasive cleaners or solvents.

6.2 Storage

- When not in use for extended periods, remove the batteries to prevent leakage.
- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries; ensure correct polarity.
Inaccurate readings.	Dirty light sensor; sensor not positioned correctly; interference.	Clean the light sensor; ensure sensor is facing the light source directly; avoid strong electromagnetic fields.
Display is dim or blank.	Low battery; backlight off.	Replace batteries; check backlight settings (if applicable).
Alarm constantly triggers.	Alarm limits set too narrow or incorrectly.	Adjust alarm upper/lower limits.

8. Specifications

Feature	Detail
Model	TA632A
Measurement Range	0-200,000 Lux (99.9/999.9/19999 FC)
Display Resolution	0.1 Lux / 0.1 FC
Light Sensor	Silicon photo-diode and spectral response filter
Sampling Rate	Approx. 8 times/s
Incident Angle	120°
Repeated Test Deviation	±2%
Spectral Range	400~700nm
Auto-off	15 minutes
Operating Conditions	Temperature: 0-40°C, Humidity: <80%RH, Altitude: <2000m
Storage Conditions	Temperature: -10-50°C, Humidity: <70%RH (remove batteries)
Item Size	256 * 67 * 35 mm / 10.08 * 2.64 * 1.38in
Item Weight	250g / 8.82oz

9. Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact LIAMOS customer service. The product typically comes with a standard manufacturer's warranty. Keep your purchase receipt as proof of purchase.

Customer Service: Please visit the official LIAMOS website or contact your retailer for support.

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