OPPLE Light Master 4

OPPLE Light Master 4 Digital Light Meter User Manual

Model: Light Master 4

1. Introduction

The OPPLE Light Master 4 is a digital light meter designed to measure various light parameters, converting complex light quality data into understandable metrics. It is suitable for professionals and enthusiasts requiring precise light analysis.
This manual provides instructions for the proper setup, operation, and maintenance of your Light Master 4 device.

2. Product Overview

The Light Master 4 offers comprehensive light measurement capabilities in a compact design.

Key Features:

- Measures Illuminance (Lux), Color Temperature (CCT), Color Rendering Index (CRI), Flicker, DUV, and R1-R14 values.
- Connects via Bluetooth to a mobile application for data transfer and analysis (compatible with iOS and Android).
- Long-lasting battery, providing up to one year of endurance on a full charge.
- Rechargeable via Type-C port.
- Compact and portable design.

Image 2.1: The OPPLE Light Master 4 device shown alongside its mobile application interface displaying measurement results.

Light Master IV Capabilities:

- **LUX:** Illuminance measurement.
- **CCT:** Correlated Color Temperature.
- **Flicker:** Light flicker measurement.
- **CRI:** Color Rendering Index.
- **DUV:** Deviation from the Black Body Locus.
- **R1-R14:** Individual color rendering indices.
- **Type-C:** Charging interface.

Image 2.2: A visual comparison highlighting the measurement capabilities of Light Master III versus Light Master IV, showing the expanded features of the Light Master IV.

Monitored Parameters:

- Stroboscopic Index
- CS Rhythm Stimulation Index
- EML Black Illuminance Index
- Color Temperature
- CRI Color Rendering Index
- Illuminance Index
- DUV Light Index
- R9 Rendering Index

Image 2.3: The Light Master 4 device illustrating the range of intelligent metering parameters it can monitor.

3. Setup Instructions

Follow these steps to set up your OPPLE Light Master 4 and connect it to the mobile application.

1. **Download the App:** Scan the QR code provided on the product packaging or search for "OPPLE Smart" in your device's app store (compatible with iOS and Android).
2. **Review User Agreements:** Open the "OPPLE Smart" app and review the User Agreements and Privacy Policy. Tap "Agree" to proceed.
3. **Register/Login:** Register a new account or log in using your email or phone number. A guest option may also be available.
4. **Access App Page:** Navigate to the main application page.
5. **Add Device:** Within the app, initiate the process to add a new device.
6. **Activate Device:** To activate the Light Master, push the inner part of the device outwards. The indicator LED should flash slowly. If the LED is not flashing, ensure the device is charged via the Type-C port.
7. **Confirm Indicator Light:** Confirm within the app that the indicator light is constantly on, indicating a successful connection.
8. **Begin Measurement:** Once connected, you can start taking measurements.

Image 3.1: A visual guide detailing the eight steps to connect the Light Master 4 to the 'OPPLE Smart' mobile application.

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4. Operating Instructions

Once your Light Master 4 is connected to the "OPPLE Smart" app, you can begin taking light measurements.

Taking Measurements:

- Ensure the device is properly activated and connected via Bluetooth to the app.
- Position the Light Master 4 sensor towards the light source you wish to measure.
- **Important:** Do not touch the white sensor area on the device, as this can lead to inaccurate measurement results.
- Select the desired measurement mode (e.g., Photometry, Flicker) within the app.
- Tap "Start" in the app to initiate the measurement. The app will display real-time data for parameters such as Lux, CCT, CRI, DUV, and individual R values (R1-R14).
- Tap "Stop" to end the measurement and view the final results.

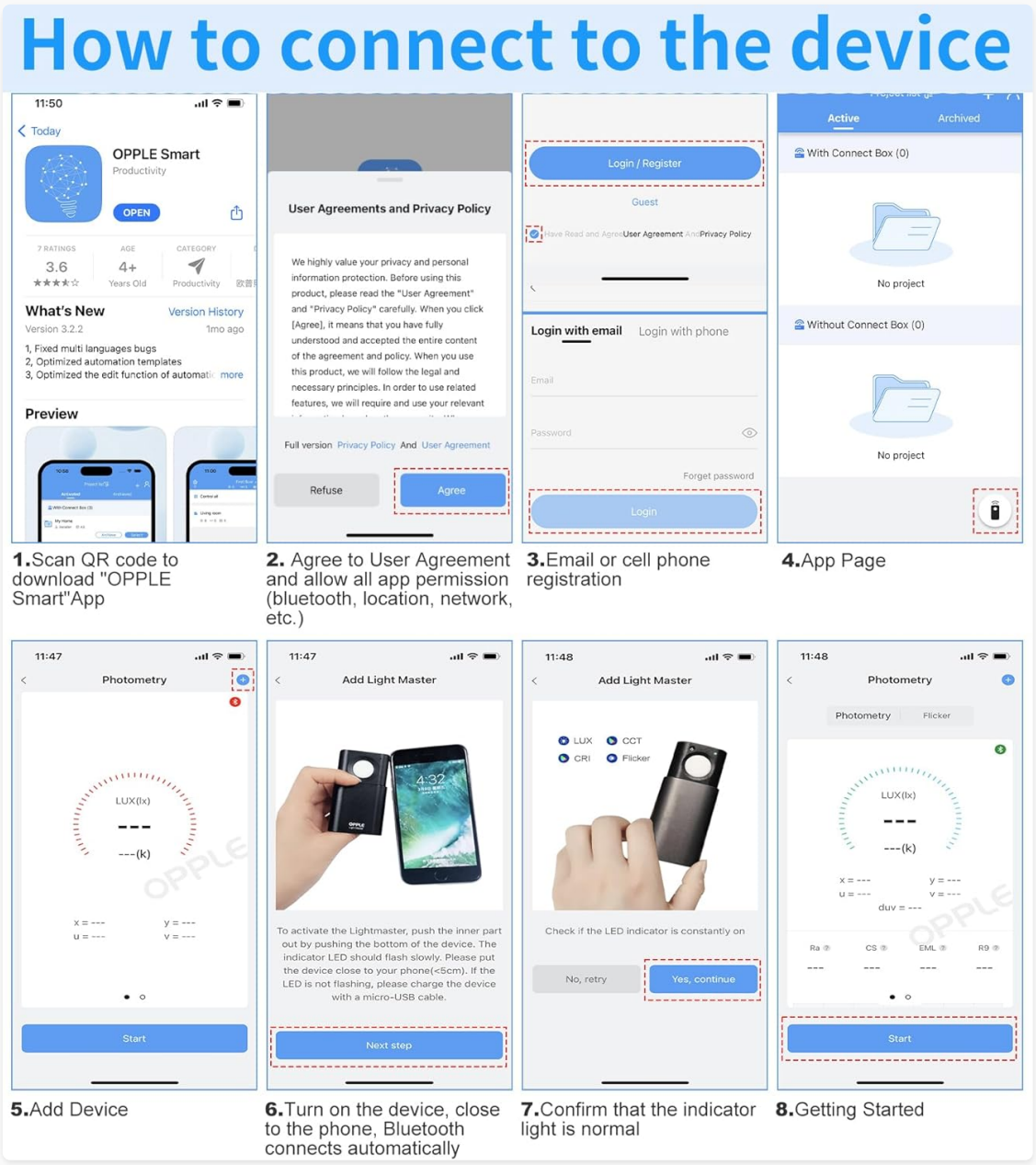

Image 4.1: The mobile application displaying detailed photometric data, including Lux, CCT, CRI, DUV, and R values.

Image 4.2: The mobile application interface showing both photometry and flicker measurement results, including a graphical representation of flicker risk.

Application Scenarios:

The Light Master 4 can be used in various environments for light analysis, including:

- Photography and Photoshoots
- Office Lighting Assessment
- Library Lighting Evaluation
- Home Lighting Optimization
- Warehouse Lighting Analysis
- Stage Lighting Setup
- Flashlight Enthusiast Testing

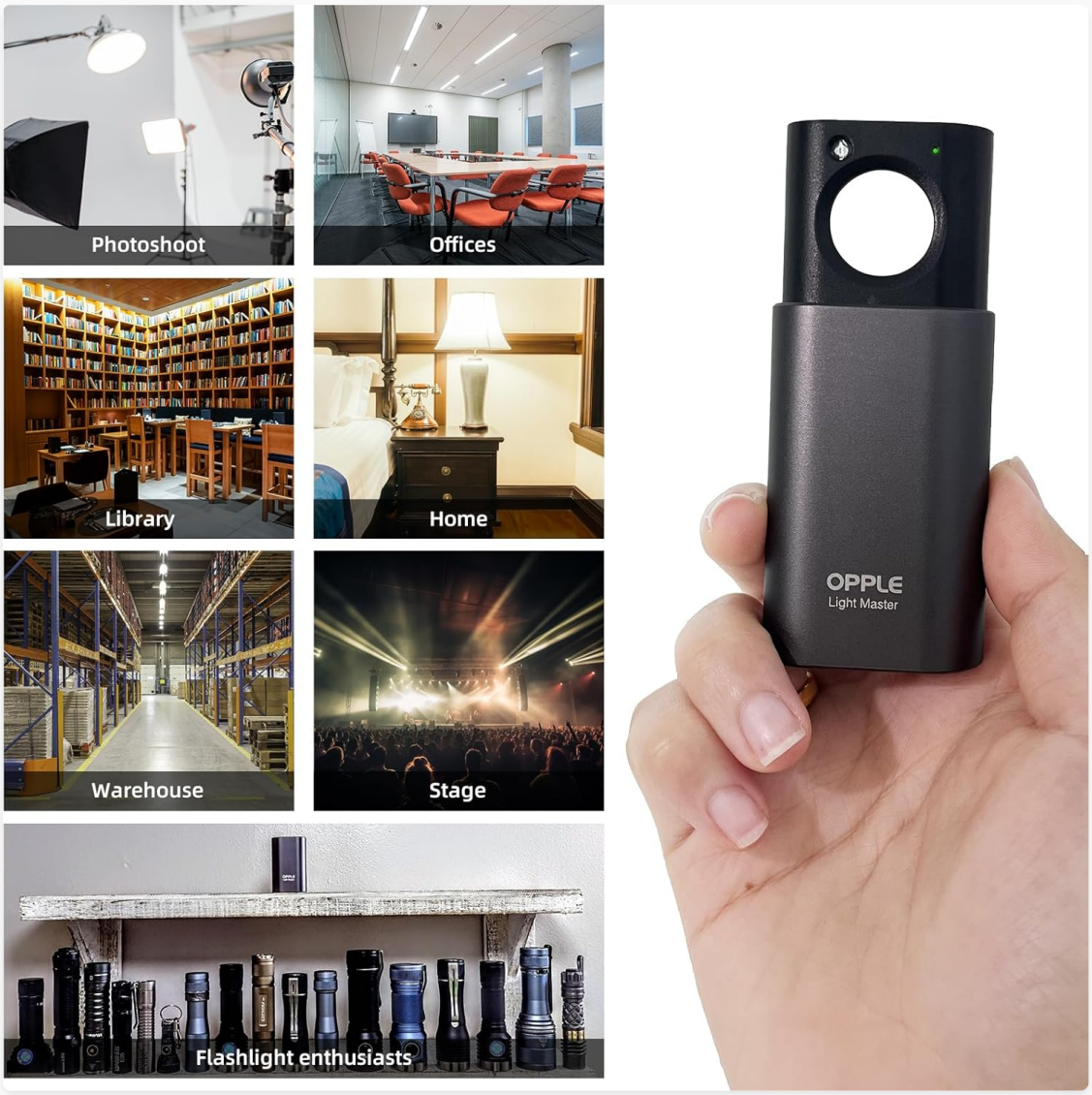

Image 4.3: Examples of environments where the Light Master 4 can be effectively utilized for light measurement.

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5. Maintenance

Charging:

The Light Master 4 is equipped with a Type-C charging port. Connect the device to a standard USB power source using a Type-C cable when the battery is low. A full charge provides approximately one year of standby endurance.

General Care:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid touching the white sensor area to prevent damage or inaccurate readings.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not expose the device to water or other liquids.

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6. Troubleshooting

Common Issues and Solutions:

- **Bluetooth Connectivity Issues:**
  If the device frequently disconnects or fails to connect:
  - Ensure the Light Master 4 is fully charged.
  - Restart both the Light Master 4 and your mobile device.
  - Ensure the "OPPLE Smart" app has Bluetooth permissions enabled on your phone.
  - Try re-pairing the device through the app's connection process.
  - Ensure no other devices are interfering with the Bluetooth signal.
- **Inaccurate Measurement Results:**
  - Ensure the white sensor area on the device is clean and has not been touched during measurement.
  - Verify that the device is measuring a white LED light source. The Light Master 4 is designed primarily for white LED light measurement and may provide inaccurate data for monochromatic or other light types.
  - Check for any physical obstructions between the sensor and the light source.
- **Device Not Turning On:**
  - Connect the device to a Type-C charger and allow it to charge for at least 30 minutes.
  - Ensure the charging cable and adapter are functioning correctly.

7. Specifications

Parameter	Value
Model	Light Master 4
Manufacturer	YUNYAO
Package Dimensions	6.3 x 6.3 x 1.57 inches
Item Weight	4.6 ounces
ASIN	B0FC7H3CM5
Date First Available	April 1, 2023
Rechargeable	Yes, Type-C
Lux Range	0-50000lx
Color Temperature Range	2000-25000K
Accuracy	~5% deviation
Operating Temperature	-10°C to +40°C

Image 7.1: The Light Master 4 device, illustrating its compact size and listing key technical specifications.

8. Safety Information

Please read and follow these safety guidelines to ensure safe operation and prolong the life of your device:

- Do not attempt to disassemble, repair, or modify the device. This may void the warranty and cause damage.
- Keep the device away from water, moisture, and high humidity.
- Avoid exposing the device to extreme temperatures, direct sunlight, or open flames.
- Use only the specified charging cable and power source.
- Keep out of reach of children.

9. Warranty and Support

For any questions, technical support, or warranty inquiries regarding your OPPLE Light Master 4, please contact the

manufacturer or seller directly. We aim to respond to all inquiries within 24 hours.