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Generic 30° FOV Film Camera Exposure Meter User Manual

Model: 30° FOV Film Camera Exposure Meter

1. Introduction

This manual provides detailed instructions for the proper use and maintenance of your Generic 30° FOV Film Camera Exposure Meter. This compact and high-precision digital light meter is designed to assist photographers in achieving accurate exposures with film cameras, rangefinder cameras, and SLRs that require manual control of aperture and shutter speed. It features an OLED screen for real-time display of exposure values, ISO, aperture, and shutter speed.



Image 1: The Generic 30° FOV Film Camera Exposure Meter mounted on a camera, showcasing its compact design and OLED display.

2. Product Features

- **High-Precision Metering:** Utilizes a K9 optical glass lens with a 30° mechanical light control for accurate light measurement.
- **OLED Display:** Real-time display of exposure value, aperture, ISO, EV value, and more on a clear 0.96-inch OLED screen.
- **Wide Metering Range:** EV-1.1 to EV21.0 with an accuracy of ±0.1EV.
- **Adjustable Settings:** ISO (1-8000), Shutter Speed (60s-1/8000s), Aperture (F1-F64).
- **Cold Shoe Interface:** Securely mounts to most cameras with a hot shoe, offering flexible positioning.
- **Digital Depth of Field Scale:** Provides quick calculation of depth of field range.
- **Compact and Lightweight:** Durable aluminum body, weighing approximately 26g, designed for portability and ease of use.

- **Rechargeable Battery:** Built-in Li-Ion Polymer Battery (110mAh) with USB-C charging, offering approximately 20 hours of battery life.

3. Package Contents

Please check the package for the following items:

- 1 x Camera Light Meter
- 1 x USB-C Charging Cable
- 1 x Flannel Storage Bag
- 1 x Screwdriver (for shoe removal/adjustment)
- 1 x Red Metering Button (pre-installed or spare)
- 1 x User Manual (this document)

4. Product Overview and Setup

4.1. Component Identification

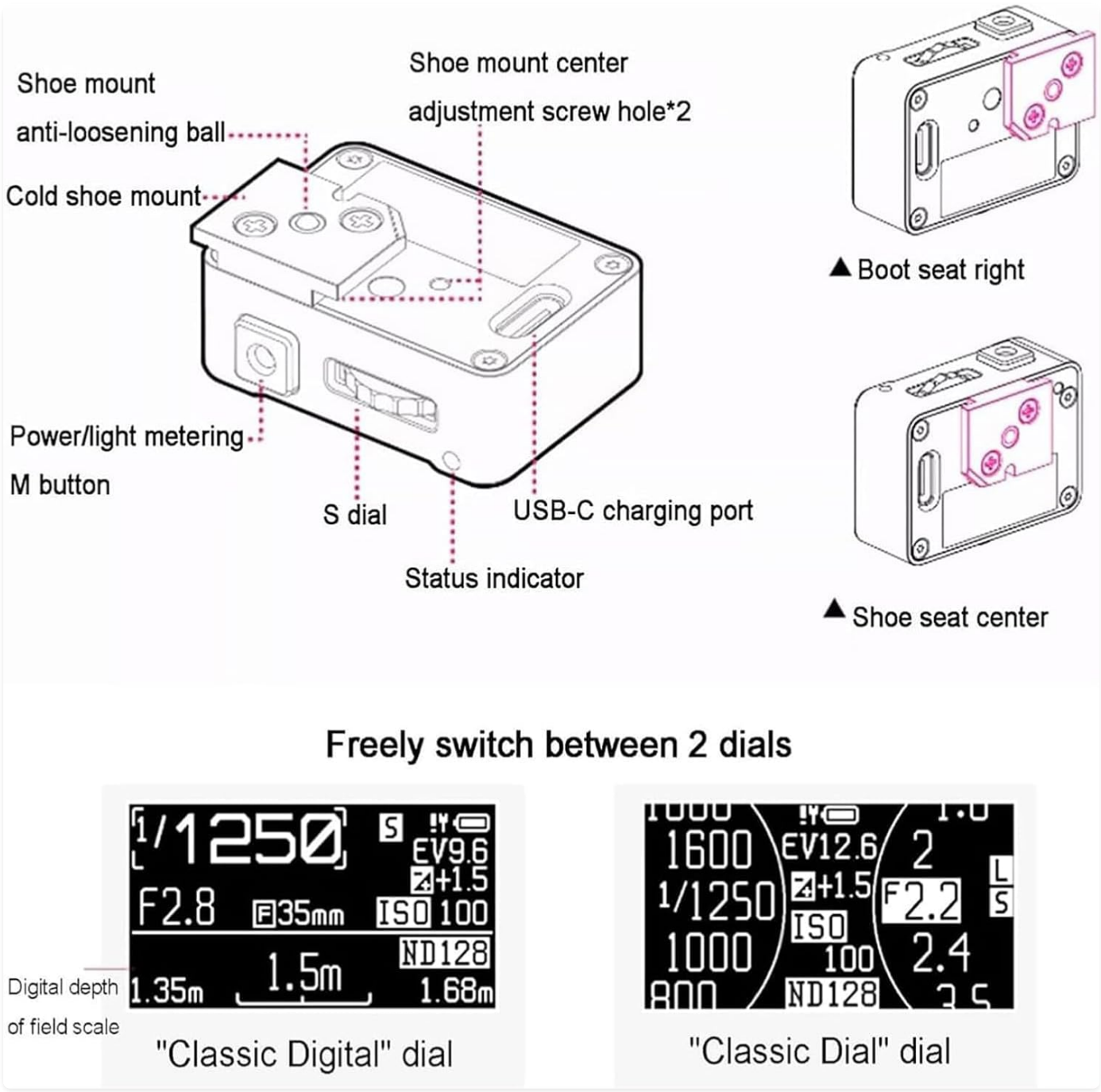


Image 2: Detailed diagram showing the various parts of the light meter, including the cold shoe mount, power/light metering button, M button, S dial, USB-C charging port, and status indicator. The diagram also illustrates how the shoe mount can be adjusted.

- **Shoe Mount:** Attaches to your camera's hot shoe. Features anti-loosening ball.
- **Cold Shoe Mount:** The base of the unit that slides into the camera's hot shoe.
- **Shoe Mount Center Adjustment Screw Hole:** Allows for precise positioning on the camera.
- **Power/Light Metering Button:** Used to power the device on/off and initiate light metering.
- **M Button:** Mode button, used for cycling through display modes or settings.
- **S Dial:** Adjustment dial for changing values (ISO, aperture, shutter speed).
- **USB-C Charging Port:** For charging the internal battery.
- **Status Indicator:** LED light indicating charging status or device operation.

4.2. Initial Charging

Before first use, fully charge the light meter. Connect the supplied USB-C cable to the charging port on the device and plug the other end into a standard USB power adapter (not included) or a computer USB port. The status indicator will

show charging progress and turn off or change color when fully charged. Charging typically takes about 1 hour.

4.3. Mounting the Light Meter

1. Ensure your camera is turned off.
2. Slide the cold shoe mount of the light meter into your camera's hot shoe.
3. Adjust the position if necessary using the shoe mount center adjustment screw hole and the provided screwdriver for a secure fit.
4. Ensure the light meter is firmly seated and does not wobble.

Note: *The camera must have a hot shoe interface and be capable of manual control over aperture and shutter speed for optimal use with this light meter.*

5. Operating Instructions

5.1. Power On/Off

- **To Power On:** Press and hold the Power/Light Metering Button for a few seconds until the OLED screen illuminates.
- **To Power Off:** Press and hold the Power/Light Metering Button again for a few seconds until the screen turns off.

5.2. Light Metering

Once powered on, the device is ready to meter light. The metering lens has a diagonal viewing angle of approximately 30°.



Image 3: Illustration of the 30° diagonal viewing angle of the metering lens. The K9 optical glass lens enhances measurement performance in low-light conditions. Examples show how the 30° FOV captures light for different subjects like landscapes, groups of people, and individual portraits.

- **Manual Trigger Metering:** Briefly press the Power/Light Metering Button to take a single light reading. The exposure values will be displayed on the screen.
- **Automatic/Continuous Trigger Metering:** Some modes may offer continuous metering. Refer to the display for active metering status.

5.3. Adjusting Settings (ISO, Aperture, Shutter Speed)

Use the **S Dial** to adjust parameters. The active parameter for adjustment is typically highlighted or indicated by a cursor on the OLED screen.

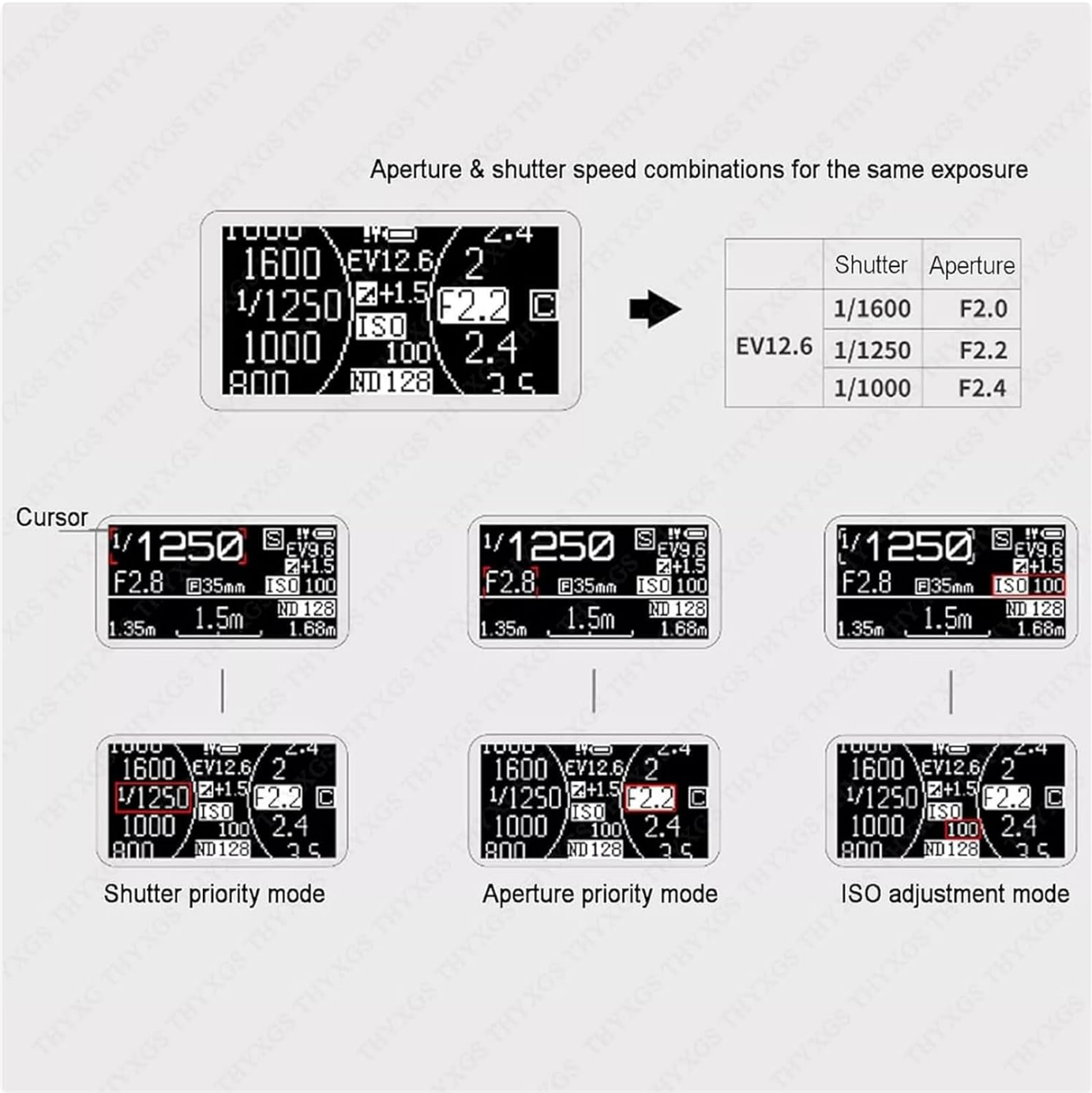


Image 4: Examples of the OLED display in various modes. It shows how to navigate and adjust settings like Shutter Speed, Aperture, and ISO. The top section illustrates how the meter suggests equivalent aperture and shutter speed combinations for a given EV.

- **Changing Active Parameter:** Press the **M Button** to cycle through adjustable parameters (ISO, Aperture, Shutter Speed). The selected parameter will be indicated on the screen.
- **Adjusting Value:** Rotate the **S Dial** clockwise or counter-clockwise to increase or decrease the value of the currently selected parameter.
- **Full-Stop and 1/3-Stop Switching:** The device supports both full-stop and 1/3-stop adjustments. This setting can usually be toggled within the device's menu or by a specific button combination (refer to on-screen prompts).

5.4. Exposure Compensation

The light meter supports exposure compensation from EV-2 to EV+2. To adjust exposure compensation:

- Enter the exposure compensation adjustment mode (usually by pressing the M button until the EV compensation value is highlighted).
- Rotate the **S Dial** to set the desired compensation value.

5.5. Screen Brightness Adjustment

The brightness of the OLED screen can be adjusted for different viewing conditions. This setting is typically found within the device's menu options. Use the **M Button** to navigate to the brightness setting and the**S Dial** to adjust the level.

5.6. Screen Flip Display

The display orientation can be flipped 180 degrees, which is useful if the meter is mounted in a way that makes the screen difficult to read. This function is usually accessible via a menu option or a long press of a specific button (e.g., M button).

6. Display Modes

The light meter offers different display interfaces to suit user preference. You can freely switch between these modes.

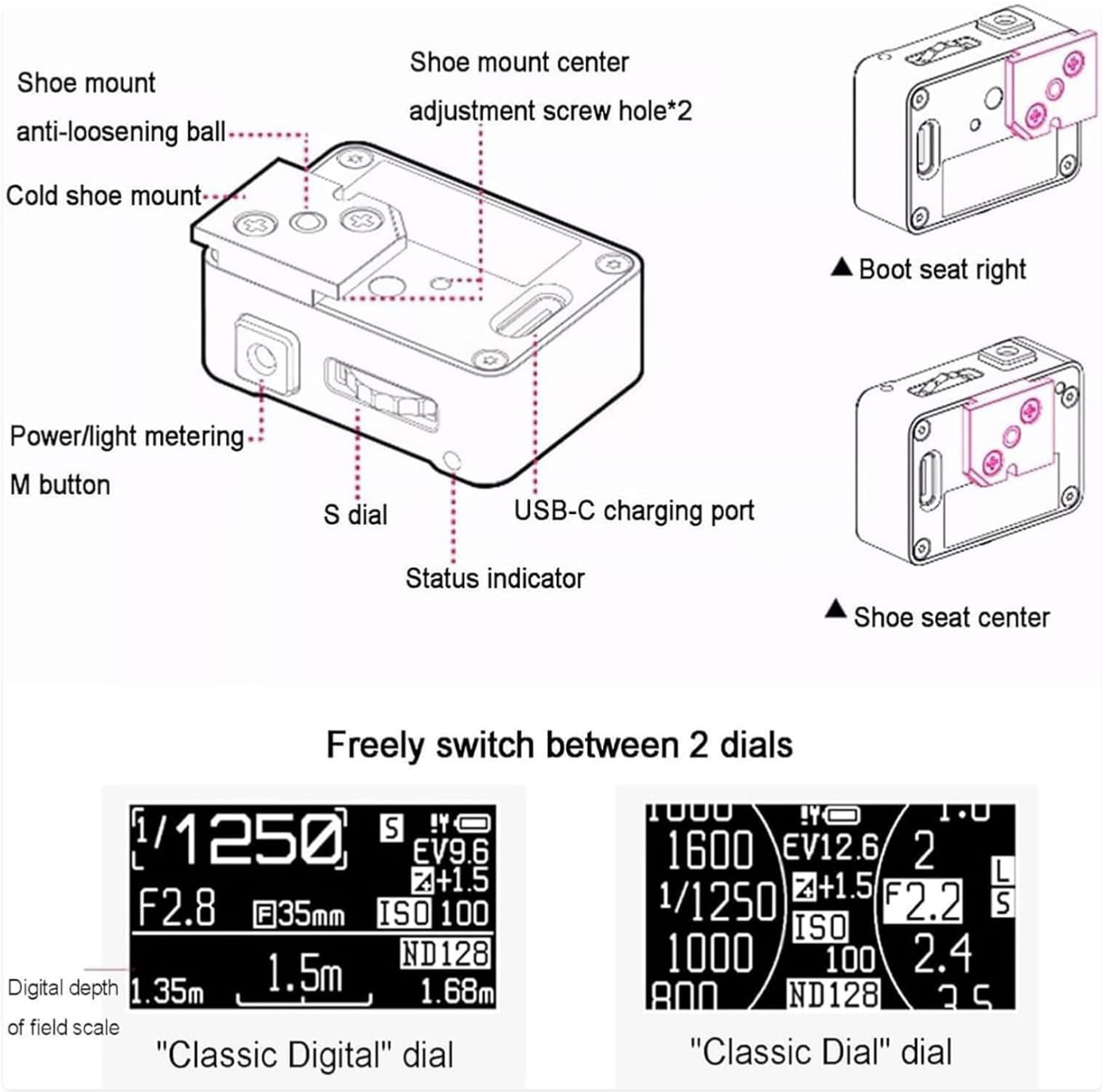


Image 5: The bottom section of the diagram (also shown in Image 2) illustrates the "Classic Digital" dial and "Classic Dial" display modes, allowing users to choose their preferred visual representation of exposure information.

- **"Classic Digital" Dial:** Displays values numerically with a modern layout.

- **"Classic Dial" Dial:** May offer a more traditional, analog-like representation of settings.

To switch between these display modes, typically press and hold the **M Button** or cycle through options using the **M Button** and **S Dial** until the desired display is active.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the body of the light meter. For the OLED screen and metering lens, use a microfiber cloth specifically designed for optics. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the light meter in the provided flannel storage bag to protect it from dust and scratches. Keep it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to about 50% every few months.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted.	Charge the device using the USB-C cable.
Screen is dim or unreadable.	Screen brightness is set too low.	Adjust screen brightness in the settings menu.
Inaccurate light readings.	Metering lens is dirty or obstructed.	Clean the metering lens with a microfiber cloth. Ensure no obstructions are in front of the lens during metering.
Device not responding to button presses.	Temporary software glitch.	Try powering off and on again. If unresponsive, allow battery to fully drain and then recharge.

9. Specifications

Feature	Detail
Product Name	Camera Light Meter
Color Options	Black, Silver
Material	Aluminum
Exposure Range	EV-1.1 ~ EV21.0, accuracy ±0.1EV
Sensitivity (ISO)	ISO1 ~ ISO8000
Shutter Speed Range	60s ~ 1/8000s
Aperture Range	F1 ~ F64
Exposure Compensation	EV-2 ~ EV+2
Screen Type	0.96-inch OLED display / 128x64 pixels
Battery Type	Built-in Li-Ion Polymer Battery 3.7V/110mAh

Feature	Detail
Charging Port	USB-C
Charging Voltage	DC5V ±10%
Max Charging Current	0.2A
Charging Time	Approximately 1 hour
Dimensions (L x W x H)	38mm x 29.5mm x 18mm (1.49in x 1.16in x 0.71in approx.)
Weight	26g (0.92oz)
Country of Origin	China

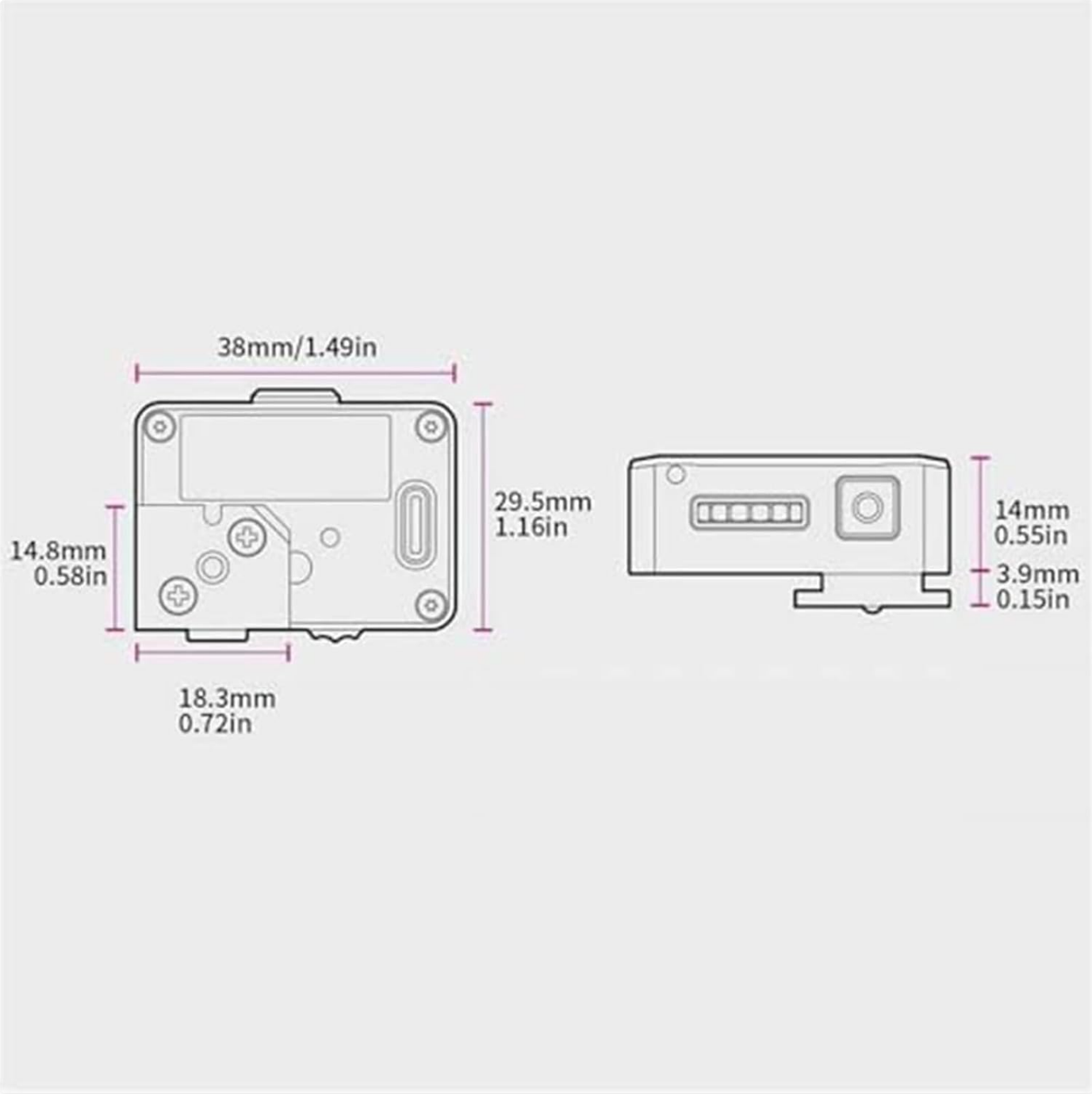


Image 6: Dimensional drawing of the light meter, providing precise measurements in millimeters and inches for length, width, and height.

10. Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty details, including duration and coverage, please refer to the documentation provided at the time of purchase or contact your retailer. If you encounter any issues or require technical assistance, please contact the seller or manufacturer directly through the platform where the product was purchased. Please have your purchase details and product model information ready when contacting support.

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