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Ulefone Ulefone Armor uSmart E02 Dark Schwarz

Ulefone Armor uSmart E02 Endoscope Camera User Manual

For Armor 28 Ultra, Armor 27T Pro, Armor 26, Armor 24, Armor 18T, Armor 18, Armor 21, Armor 16S, Power Armor 26, Armor 19, Armor PAD Series

1. PRODUCT OVERVIEW

The Ulefone Armor uSmart E02 Endoscope Camera is a versatile inspection tool designed to expand the capabilities of your compatible Ulefone Armor series smartphone or tablet. It connects via the uSmart Expansion Connector, providing a stable and reliable connection for various inspection tasks in hard-to-reach areas. This endoscope features a dual camera system, adjustable LED lighting, and a durable, waterproof design.



Figure 1: Ulefone Armor uSmart E02 Endoscope Camera connected to a compatible Ulefone device, highlighting its dual camera and waterproof features.

2. KEY FEATURES

- **Dual Camera System:** Equipped with both a front-facing and a side-facing camera, allowing for

comprehensive viewing from multiple angles without needing to reposition the endoscope.

- **2-Meter Bendable Cable:** A semi-rigid cable provides ample length (2 meters) and flexibility to navigate through pipes, conduits, and other confined spaces.
- **7 Dimmable LEDs:** Integrated LED lights on both cameras provide adjustable illumination, ensuring clear visibility in dark environments. Brightness can be controlled via a rotatable wheel on the cable.
- **IP67 Waterproof Rating:** The endoscope cable and camera are designed to be waterproof, making them suitable for use in wet or submerged conditions such as drains and sewers.
- **uSmart Expansion Connector:** Ensures a stable and secure connection to compatible Ulefone Armor series devices, facilitating reliable data transmission.
- **Multifunctional Attachments:** Includes a hook and a magnet attachment, along with a protective case for the camera lens, enhancing versatility for retrieving small objects or protecting the lens.



Figure 2: Overview of the Ulefone Armor uSmart E02 Endoscope's primary features.

3. SETUP AND CONNECTION

To use the Ulefone Armor uSmart E02 Endoscope Camera, ensure your Ulefone device is compatible with the

uSmart Expansion Connector. The endoscope is designed for easy plug-and-play functionality.

3.1 Connecting the Endoscope

1. Locate the uSmart Expansion Connector port on your compatible Ulefone Armor series device. This port is typically found on the side or bottom edge of the device.
2. Align the endoscope's connector with the uSmart port and gently push it in until it is securely seated.
3. Once connected, your device should automatically recognize the endoscope. If prompted, allow any necessary permissions for the endoscope application.
4. Open the dedicated endoscope application on your Ulefone device to view the camera feed.



Figure 3: Illustration of connecting the uSmart E02 Endoscope to a compatible Ulefone device.

4. OPERATING INSTRUCTIONS

The Ulefone Armor uSmart E02 Endoscope is designed for intuitive operation, allowing you to easily switch between cameras and adjust lighting for optimal viewing.

4.1 Camera Control

- **Switching Cameras:** The endoscope features a function button on the cable. A short press of this button will toggle between the front camera and the side camera, providing different perspectives.
- **Taking Pictures:** A long press of the function button will capture an image from the currently active camera.



Figure 4: Details of the dual camera system and control button on the endoscope.

4.2 Adjusting LED Brightness

The endoscope is equipped with 7 dimmable LEDs to illuminate dark inspection areas. The brightness can be

adjusted using the rotatable wheel located on the endoscope cable.

- Rotate the brightness control wheel clockwise to increase the LED illumination.
- Rotate the brightness control wheel counter-clockwise to decrease the LED illumination.



Figure 5: Brightness control for the endoscope's integrated LEDs.

4.3 Typical Applications

The Ulefone Armor uSmart E02 Endoscope is a practical inspection tool for various scenarios:

- Drain and plumbing inspection
- Pipe checking
- Air conditioning system detection
- Viewing small openings
- Wall circuit detection
- Home appliance checking

- Automotive inspection (e.g., engine bays)

STRUGGLE FOR NARROW VISUAL RANGE?

Endoscope is a practical inspection tool necessary for inspecting or maintenance work, widely used for drain plumber checking, pipe checking, air conditioning detection, small openings viewing, wall circuit detection, home appliance checking, and visual aids.



Figure 6: Examples of practical applications for the endoscope.

4.4 Multifunctional Attachments

The endoscope comes with useful attachments to enhance its functionality:

- **Magnet:** Useful for retrieving small metallic objects from inaccessible areas.
- **Hook:** Can be used to pull or retrieve non-magnetic items.

- **Protective Case:** Provides additional protection for the camera lens during use or storage.



Figure 7: The included multifunctional attachments.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Ulefone Armor uSmart E02 Endoscope Camera.

- **Cleaning:** After use, especially in dirty or wet environments, wipe the endoscope cable and camera head with a soft, damp cloth. For stubborn dirt, a mild soap solution can be used, followed by a clean water rinse.
- **Water Exposure:** While the cable and camera are IP67 waterproof, avoid prolonged submersion. After use in water, ensure the endoscope is thoroughly dried before storage.
- **Storage:** Store the endoscope in a clean, dry place, away from extreme temperatures and direct sunlight. Coil the cable loosely to prevent kinks or damage.

- **Connector Care:** Keep the uSmart Expansion Connector clean and free of debris to ensure a reliable connection.



Figure 8: The endoscope's IP67 waterproof feature. Note: Avoid prolonged submersion.

6. TROUBLESHOOTING

If you encounter issues with your Ulefone Armor uSmart E02 Endoscope Camera, try the following steps:

- **No Image/Connection Issue:**
 - Ensure the endoscope is securely connected to the uSmart Expansion Connector port on your device.
 - Restart the endoscope application on your Ulefone device.
 - Disconnect and reconnect the endoscope.
 - Verify that your Ulefone device model is listed as compatible with the uSmart E02 Endoscope.
- **Poor Image Quality:**

- Adjust the LED brightness using the rotatable wheel on the cable.
- Clean the camera lenses with a soft, lint-free cloth.
- Ensure there is sufficient ambient light if not relying solely on the LEDs.

- **Button Not Responding:**

- Ensure the endoscope is properly connected and the application is active.
- Try restarting the application or your device.

If problems persist, please refer to the warranty and support information provided in Section 8.

7. SPECIFICATIONS

Attribute	Detail
Product Dimensions	7.48 x 3.39 x 0.69 inches (approximate, for endoscope unit)
Item Weight	1.76 ounces (50 Grams)
Connectivity Technologies	uSmart Expansion Connector
Human Interface Input	Button on cable
Color	Black
What's in the box	1x Ulefone Armor uSmart E02 Endoscope
Compatible Devices	Ulefone Armor 27T Pro, Armor 26 Ultra, Armor 24, Armor 18T Ultra, Armor 18 Ultra, Armor 21, Armor 16S, Power Armor 26, Armor 19, Armor 18, Ulefone Armor PAD Series

8. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 1: Ulefone Armor PAD 4 Ultra Rugged Tablet Accessories Ecosystem. This video showcases various accessories compatible with the Ulefone Armor PAD series, including the uSmart E02 Endoscope Camera and its practical applications.

9. WARRANTY AND SUPPORT

Ulefone is committed to providing quality products and customer satisfaction. For support regarding your Ulefone Armor uSmart E02 Endoscope Camera, please refer to the following:

- **Technical Support:** 24 Hours Technical support is available.
- **Returns:** 30 Days Return without reason.
- **Service:** 1 Year Efficient Service.
- **Warranty:** 1 Year Non-artificial damage warranty.



Figure 9: Ulefone's customer support and warranty information.

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Related Documents - Ulefone Armor uSmart E02 Dark Schwarz

<p>ulefone</p> <p>Multi Function Instructions</p> <p>Power Armor 18T</p>	<p><u>Ulefone Power Armor 18T Multi-Function Instructions Guide</u></p> <p>Explore the advanced features of the Ulefone Power Armor 18T, including its uSmart Expansion Connector, Underwater Camera capabilities, Gloves Mode, and customizable Custom Key settings. This guide provides essential information for users.</p>
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 Armor Pad 4 Ultra Armor Pad 4 Ultra Thermal KÄYTTÖOHJE BRUKSANVISNING USER MANUAL	<p><u>Ulefone Armor Pad 4 Ultra & Armor Pad 4 Ultra Thermal User Manual</u></p> <p>Comprehensive user manual for the Ulefone Armor Pad 4 Ultra and Armor Pad 4 Ultra Thermal tablets, covering safety instructions, device components, setup, specifications, and regulatory information.</p>
 Multi Function Instructions Armor 24	<p><u>Ulefone Armor 24 Multi Function Instructions</u></p> <p>User guide for the Ulefone Armor 24 smartphone, detailing features like Underwater Camera, Wired Reverse Charging, Custom Key configuration, uSmart Expansion Connector, and RAM Expansion capabilities.</p>
 Armor 33 Pro KÄYTTÖOHJE BRUKSANVISNING USER MANUAL	<p><u>Ulefone Armor 33 Pro User Manual - Guide and Specifications</u></p> <p>Comprehensive user manual for the Ulefone Armor 33 Pro smartphone, covering safety instructions, features, specifications, and setup. Learn how to use your device safely and effectively.</p>
 ARMOR 3 USER MANUAL	<p><u>Ulefone Armor 3 User Manual: Features, Setup, and Safety Guide</u></p> <p>Comprehensive user manual for the Ulefone Armor 3 rugged smartphone. Learn about installation, device features, basic operations, and essential safety precautions.</p>
 ARMOR 26 SERIES İSTİBRAÇA DİŞLİĞİ	<p><u>Ulefone Armor 26 Series User Manual</u></p> <p>This user manual provides comprehensive instructions for the Ulefone Armor 26 Series, covering setup, features, and safety guidelines. Learn how to install SIM cards, manage calls and messages, use the intercom function, and understand important safety precautions for optimal device usage.</p>