

zealtron A1

zealtron Dual Lens Borescope with 5" IPS Screen, Model A1 User Manual

Model: A1 | Brand: zealtron

1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, maintenance, and troubleshooting of your zealtron Dual Lens Borescope, Model A1. This device is designed for visual inspection in hard-to-reach areas, featuring a 5-inch IPS screen and a dual-lens 1080P camera system. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- T50 borescope (Main Unit with 5" IPS Screen)
- 5m (16.5ft) Dual-Cam Cable (Probe)
- Hook Accessory
- Magnet Accessory
- Type-C Charging Cable
- User Manual

3. PRODUCT OVERVIEW

The zealtron Dual Lens Borescope is an advanced inspection tool designed for clarity and ease of use.



The main unit of the borescope, displaying the 5-inch IPS screen, control panel, and the attached semi-rigid inspection cable.

3.1 Key Components

- **5-inch IPS Screen:** Provides a clear, high-resolution display with wide viewing angles.
- **Control Panel:** Intuitive buttons for navigation, photo/video capture, and settings adjustment.
- **Semi-Rigid Cable:** A flexible yet firm cable that retains its shape for precise probe positioning.
- **Dual-Lens Probe:** Features both a front-facing and a side-facing camera for comprehensive inspection.

Dual-Lens 1080P

Two camera angles, two points of view



Front Camera A



Side Camera B

This image demonstrates the innovative dual-lens system, allowing users to switch between a forward-facing camera (A) and a side-viewing camera (B) for comprehensive inspection.

Waterproof 1080P HD Dual Lens

The probe integrates 5MP chip-based dual cameras, clearly revealing every detail.



A detailed view of the borescope probe's construction, highlighting its waterproof design, dual 1080P HD cameras, and multiple LED lights for illumination in dark environments.

5 Inch IPS Screen

5-Inch



95% Larger



3X Brighter



9X Sharper



Vivid Color



No delay

The large 5-inch IPS screen provides a clear and bright display for real-time viewing during inspections, offering wide viewing angles and accurate color reproduction.

4. SETUP

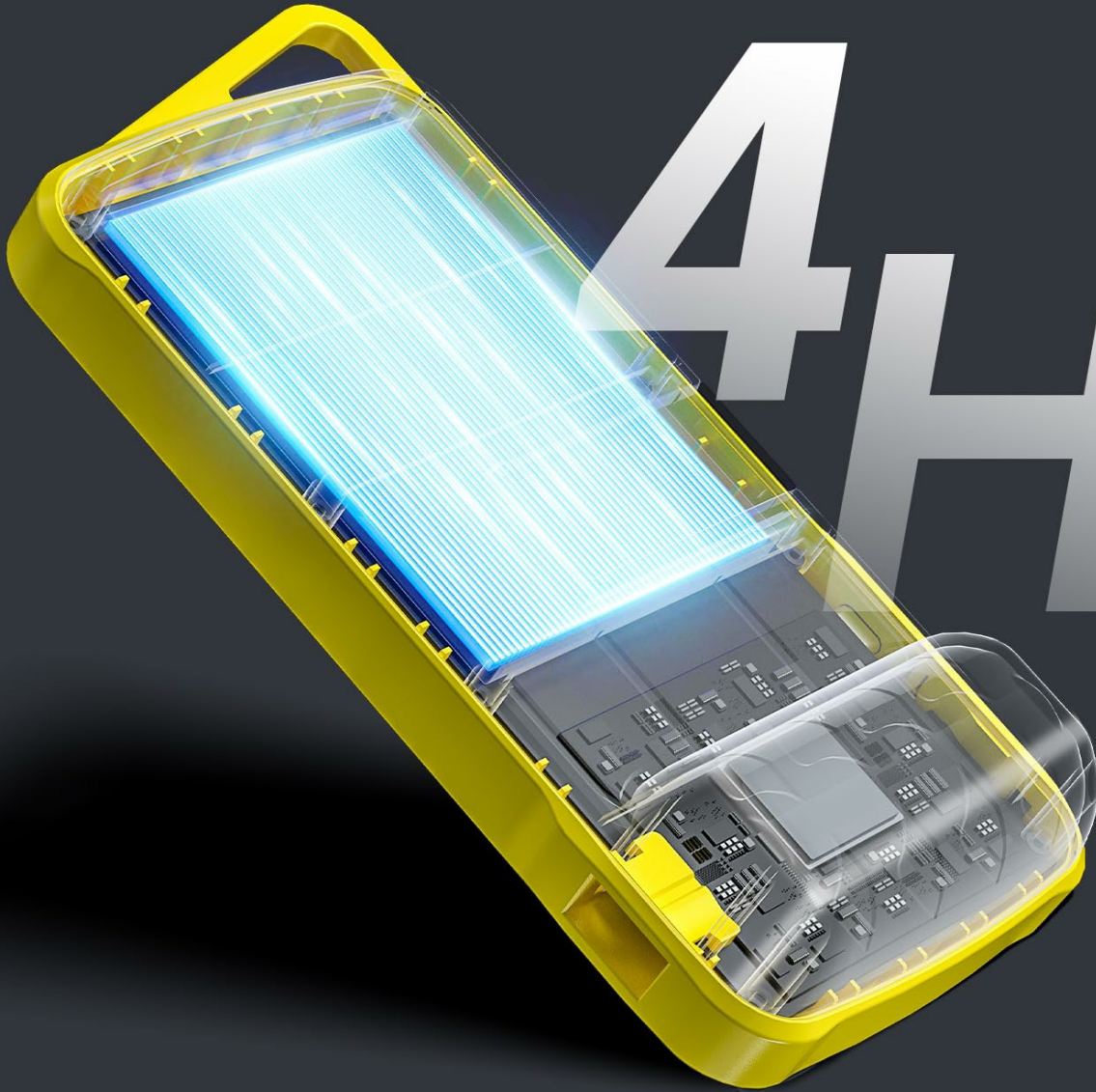
4.1 Charging the Device

Before first use, fully charge the borescope using the provided Type-C charging cable and a standard USB power adapter (not included).

- Connect the Type-C cable to the borescope's charging port.
- Connect the other end to a USB power source.
- The charging indicator light will illuminate. A full charge typically takes approximately 3-4 hours and provides over 4 hours of active use.

Built-in Rechargeable Battery

Supports over 4 hours of active use on a full charge



Equipped with a built-in rechargeable battery, the borescope provides over 4 hours of continuous operation on a single charge, ensuring extended use without interruption.

4.2 Inserting a Memory Card (Optional)

To save photos and videos, insert a MicroSD (TF) card into the designated slot. The device supports cards up to 32GB (card not included).

- Locate the MicroSD card slot on the side of the main unit.
- Gently insert the MicroSD card with the contacts facing down until it clicks into place.
- To remove, push the card in slightly until it springs out.

Capture Photos and Videos

Stored on a TF card,
instantly share them with your colleagues and clients!



The borescope supports MicroSD cards for storing captured photos and videos, allowing for documentation and later review of inspection findings.

4.3 Connecting the Probe Cable

The semi-rigid probe cable connects to the main unit via a USB-C port.

- Align the USB-C connector of the probe cable with the port on the main unit.
- Push firmly until it is securely connected.
- The modular design allows for hot-swapping or replacement of cables.

USB Connect / Hot-swap Design

The plug-and-play design allows you to individually replace cables and cameras of varying specifications



The modular USB-C design enables easy connection and disconnection of the probe cable, facilitating replacement or future upgrades.

5. OPERATION

5.1 Power On/Off

- **Power On:** Press and hold the **Power button** (🔌) for 2-3 seconds until the screen illuminates.
- **Power Off:** Press and hold the **Power button** for 2-3 seconds until the screen turns off.

5.2 Navigating Menus

Use the **Up** (⬆️) and **Down** (⬆️) arrow buttons to scroll through menu options. Press the **OK button** to confirm a selection.

5.3 Capturing Photos and Videos

- **Take a Photo:** In live view mode, press the **Photo button** (📷) once. The image will be saved to the MicroSD card.
- **Record Video:** In live view mode, press the **Record button** (often indicated by a video camera icon or 'M' for Mode,

refer to device specific icon) once to start recording. Press again to stop. Videos will be saved to the MicroSD card.

5.4 Switching Between Lenses

The borescope features a dual-lens system. To switch between the front-facing and side-facing cameras:

- In live view mode, press the **Lens Switch button** (often labeled with a 'C' or a dual-camera icon, refer to device specific icon).
- The display will switch between the front camera view and the side camera view.

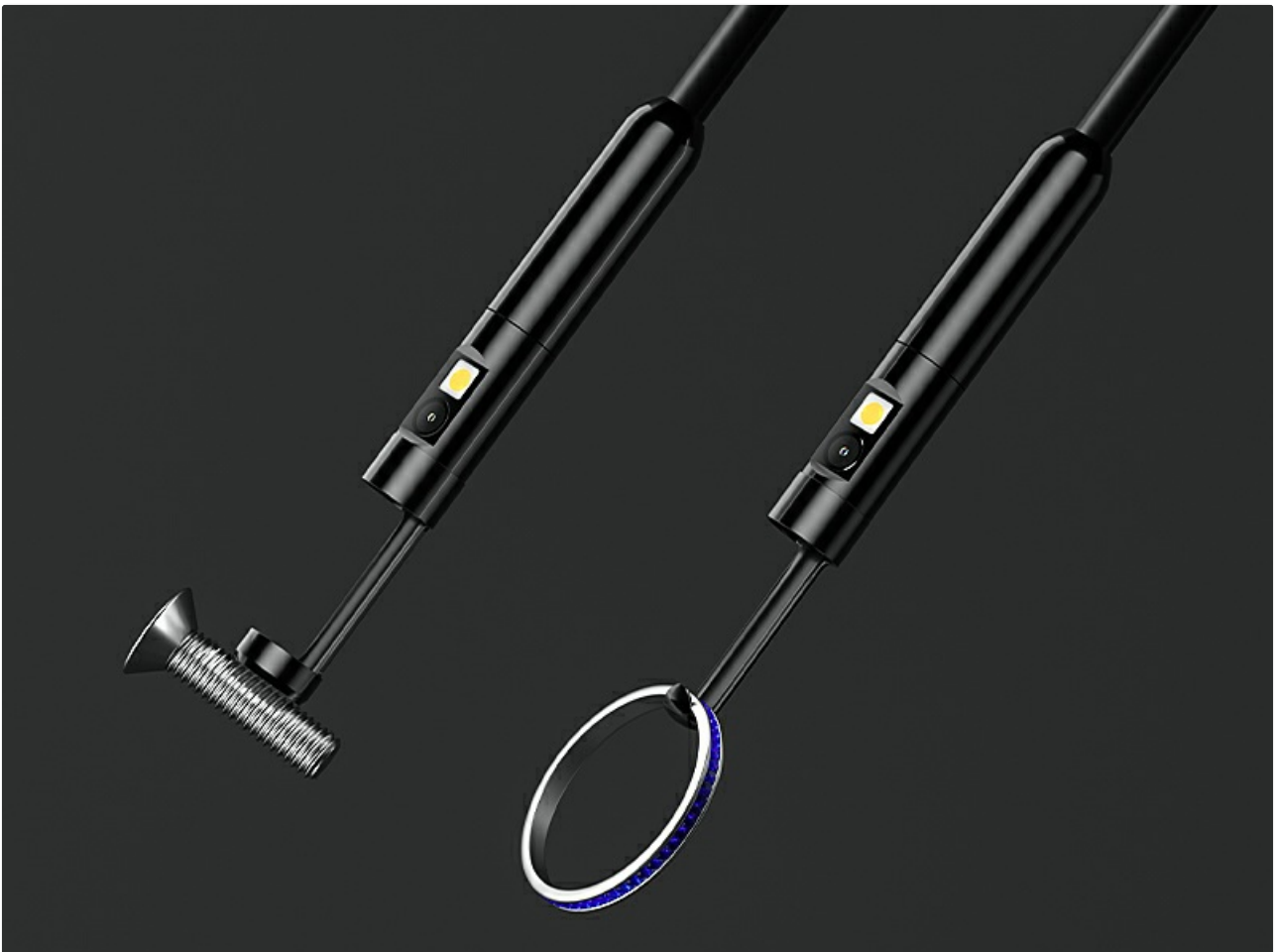
5.5 Adjusting LED Lights

The probe is equipped with adjustable LED lights for illumination. Use the **Light Adjustment buttons** (often integrated with Up/Down arrows or a dedicated button) to increase or decrease the brightness of the LEDs.

5.6 Using Accessories

The included hook and magnet accessories can be attached to the probe tip for specific tasks.

- **Attachment:** Carefully screw the desired accessory onto the threaded tip of the probe until secure.
- **Usage:** The hook can be used to retrieve small wires or objects, while the magnet is suitable for metallic items.



Included accessories such as a threaded hook and magnet can be securely attached to the probe tip, aiding in the retrieval of small objects from inaccessible areas.

5.7 Integrated Kickstand

The main unit features a built-in kickstand for hands-free operation.

- Gently pull out the kickstand from the back of the unit.

- Place the unit on a flat surface for stable viewing.



The integrated kickstand on the back of the main unit allows for convenient hands-free viewing during inspections.

6. MAINTENANCE

6.1 Cleaning the Probe and Lens

- After each use, especially in dirty or wet environments, wipe the probe and camera lenses with a soft, damp cloth.
- For stubborn dirt, use a small amount of mild soap solution. Ensure no liquid enters the USB-C connector.
- Do not use abrasive cleaners or solvents, as these can damage the lens or probe material.

6.2 Cleaning the Main Unit and Screen

- Wipe the main unit and screen with a soft, dry, lint-free cloth.
- Avoid spraying cleaning solutions directly onto the screen.

6.3 Storage

- Store the borescope in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the cable is neatly coiled to prevent kinks or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully.
No image on screen.	Probe cable not connected properly.	Ensure the USB-C probe cable is securely connected.
Image is blurry or unclear.	Lens is dirty; Incorrect focal distance.	Clean the camera lens. Adjust the distance between the probe and the object.
Cannot save photos/videos.	No MicroSD card inserted; Card is full or corrupted.	Insert a MicroSD card. Check card capacity or try a different card. Format the card if necessary (refer to device settings).
LED lights are not working.	Lights are turned off or brightness is set to minimum.	Adjust LED brightness using the dedicated buttons.

8. SPECIFICATIONS

Feature	Detail
Display	5-inch IPS Screen
Video Capture Resolution	1080p
Camera Type	Dual Lens (Front & Side)
Cable Length	16.5 feet (5 meters)
Cable Type	Semi-Rigid
Power Source	Built-in Rechargeable Lithium Polymer Battery
Battery Life	4+ hours (active use)
Storage Media	MicroSD Card (up to 32GB, not included)
Connectivity	USB-C (for probe and charging)
Manufacturer	Zealtron

9. WARRANTY AND SUPPORT

Your zealtron Dual Lens Borescope is backed by dedicated customer support. For any questions, technical assistance, or warranty claims, please contact zealtron customer service. Refer to the product packaging or the official zealtron website for specific contact information and warranty details.

zealtron offers 24/7 support to assist you with any product-related inquiries.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question