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› QzkBoeo T21-OTOSCOPE Digital Video Otoscope User Manual

QzkBoeo T21-OTOSCOPE

QzkBoeo T21-OTOSCOPE Digital Video Otoscope User Manual

Model: T21-OTOSCOPE | Brand: QzkBoeo

Introduction

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Safety Information

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1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your QzkBoeo T21-OTOSCOPE Digital Video Otoscope. Please read this manual thoroughly before operating the device and retain it for future reference.

The QzkBoeo T21-OTOSCOPE is designed for visual inspection of the ear canal and for assisting in ear wax removal. It features a 1080P camera, a 4.5-inch IPS screen, and a 3000mAh rechargeable battery for convenient, standalone operation without the need for a smartphone or Wi-Fi connection.

2. PACKAGE CONTENTS

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

- Otoscope Monitor (with 4.5" IPS Screen)
- Camera Probe
- USB Charging Cable
- Silicone Ear Picks (6 different types)
- Protective Speculums (3 pieces)
- Stand for Display

- User Manual
- Built-in Removable 8GB Mini SD Card

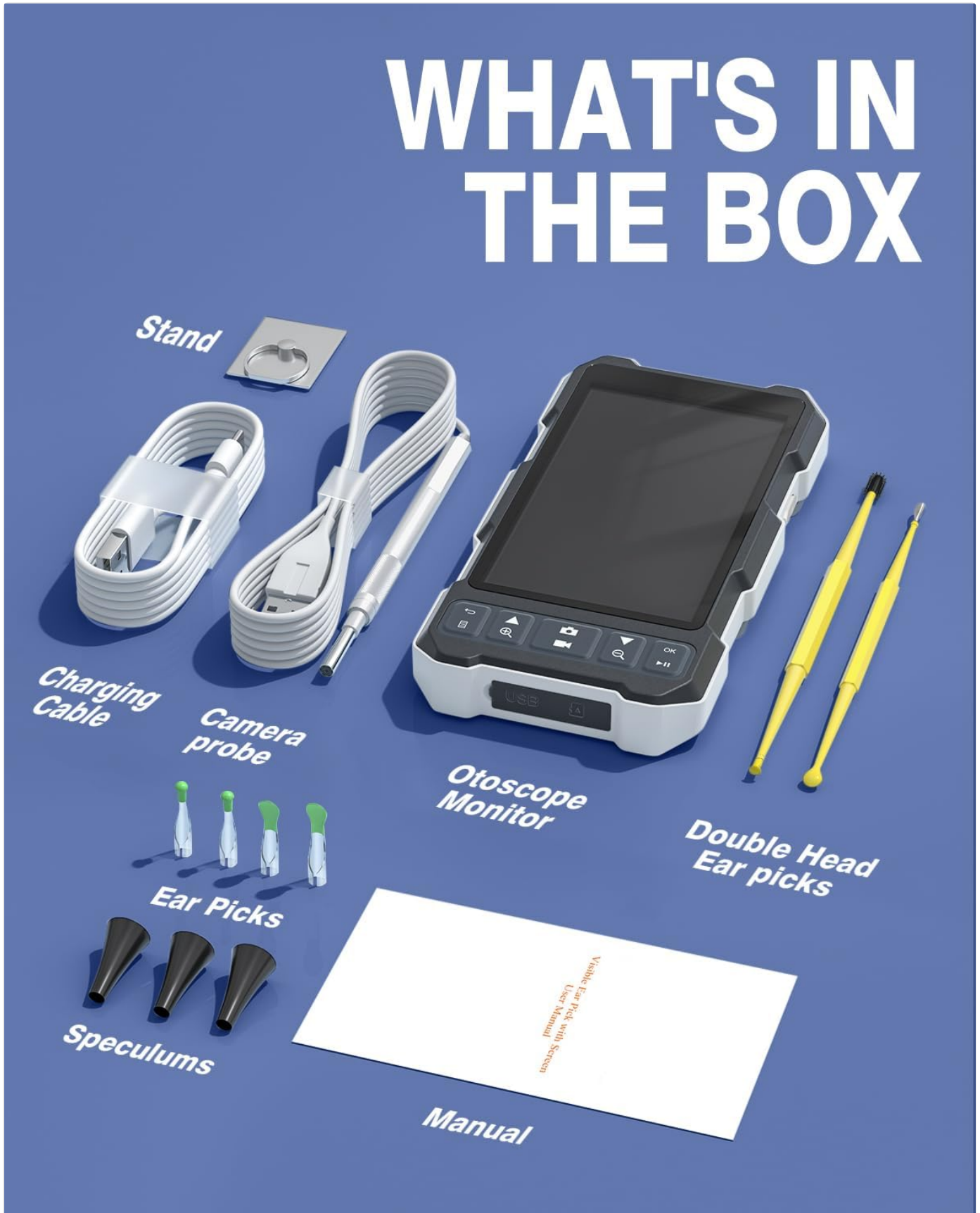


Image: Contents of the QzkBoeo T21-OTOSCOPE package. This image displays the otoscope monitor, camera probe, charging cable, various ear picks, speculums, a stand, and the user manual, illustrating all included components.

3. IMPORTANT SAFETY INFORMATION

- **Medical Advice:** This device is for personal inspection and assistance with ear wax removal only. It is not a substitute for professional medical diagnosis or treatment. Consult a medical professional for any ear pain, discomfort, or suspected infection.
- **Children's Use:** Children should not use this otoscope alone. Adult supervision and assistance are required to prevent injury.
- **Speculum Use:** Always attach a protective speculum to the camera probe before inserting it into the ear canal. This prevents excessive insertion and reduces the risk of injury.
- **Cleaning:** Clean the camera probe and ear picks thoroughly with alcohol or water after each use to maintain hygiene and prevent blurry images caused by earwax residue.
- **Insertion Depth:** Exercise extreme caution when inserting the probe into the ear canal. Do not force the probe. Stop immediately if you feel any resistance or pain.
- **Battery Safety:** Ensure the device is fully charged before long-term storage to prevent battery degradation. Do not expose the battery to extreme temperatures.



Image: Illustration demonstrating the importance of using a protective speculum to ensure safe insertion depth into the ear canal, preventing potential injury.

4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your QzkBoeo T21-OTOSCOPE.

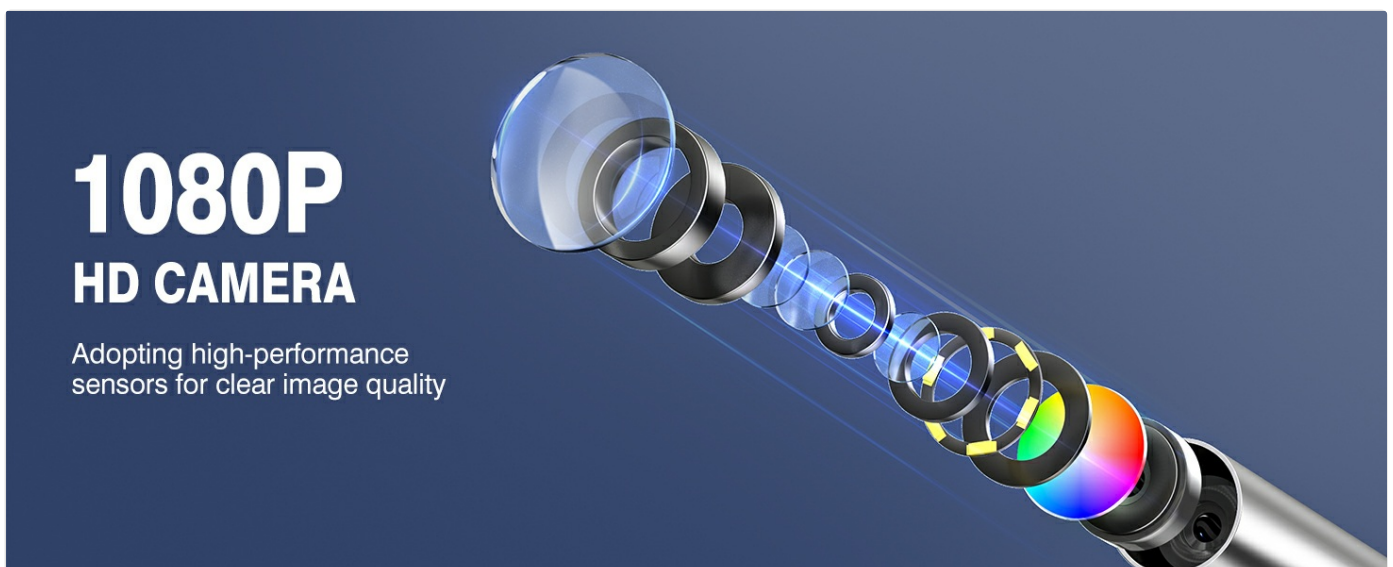


Image: Detailed diagram of the otoscope monitor, highlighting key features such as the charging port, photo/video button, TF card slot, navigation buttons, power button, brightness switch, camera interface, reset button, speakers, and flashlight.

4.1 Monitor Controls and Ports

- **Power Button:** Press and hold to turn the device on/off.
- **OK / Switch Button:** Confirm selections or switch modes.
- **Up / Zoom In Button:** Navigate menus or zoom in during live view.
- **Down / Zoom Out Button:** Navigate menus or zoom out during live view.
- **Back / Menu Button:** Go back in menus or access settings.
- **Photo / Video Button:** Press to take a photo; press and hold to start/stop video recording.
- **Brightness Switch:** Adjust the LED light intensity on the camera probe (3 levels).
- **Charging Port:** USB-C port for charging the device.
- **TF Card Slot:** Insert the included 8GB Micro SD card for storing images and videos.
- **Camera Interface:** Port to connect the camera probe.
- **Flashlight:** Additional LED light on the back of the monitor.

4.2 Camera Probe

- **3.9mm Ultra-Slim Lens:** Designed for comfortable insertion into the ear canal.
- **1080P HD Camera:** Provides clear image and video quality.
- **Adjustable LED Lights:** Integrated lights with 3 brightness levels for optimal illumination.
- **IP67 Waterproof:** The camera head is waterproof for easy cleaning.

5. SETUP

5.1 Charging the Device

1. Connect the USB charging cable to the charging port on the otoscope monitor.
2. Connect the other end of the cable to a standard USB power adapter (not included) or a computer USB port.
3. The charging indicator will illuminate. Allow approximately 3-4 hours for a full charge.
4. A full charge provides up to 5 hours of continuous use.



Image: Illustration of the otoscope's internal 3000mAh battery being charged, emphasizing its long battery life.

5.2 Inserting the Micro SD Card

The device comes with a pre-installed 8GB Micro SD card. If you need to replace it or ensure it's properly seated:

1. Locate the TF card slot on the side of the monitor.
2. Gently push the Micro SD card into the slot until it clicks into place. To remove, push it in again until it springs out.

5.3 Attaching the Camera Probe

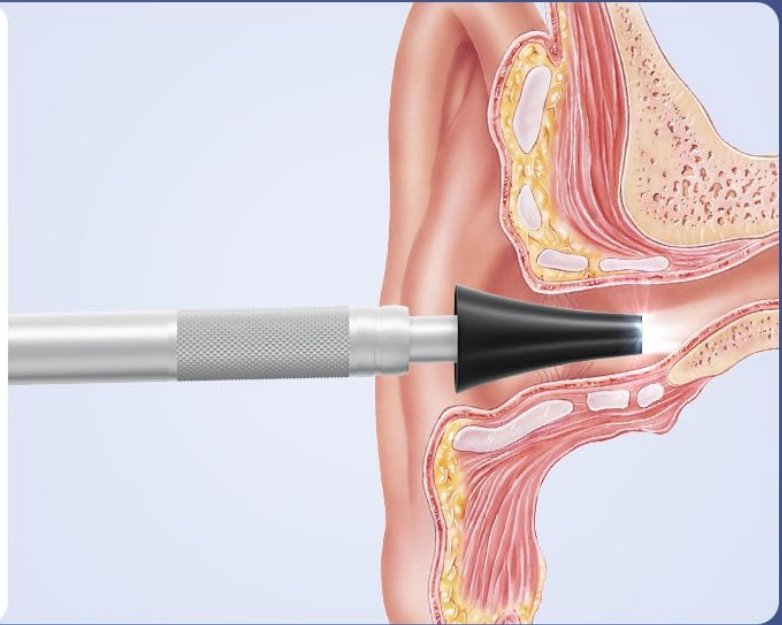
1. Align the connector of the camera probe with the camera interface port on the monitor.
2. Gently push the probe into the port until it is securely connected.

5.4 Attaching a Speculum and Ear Pick

1. Select a protective speculum and slide it onto the tip of the camera probe. Ensure it is firmly attached.
2. If performing ear wax removal, select an appropriate silicone ear pick and attach it to the end of the camera probe, over the speculum.
3. Always use a speculum to prevent over-insertion.

A SET OF ACCESSORIES

3 Protective Speculums



4 Silicone Ear Picks

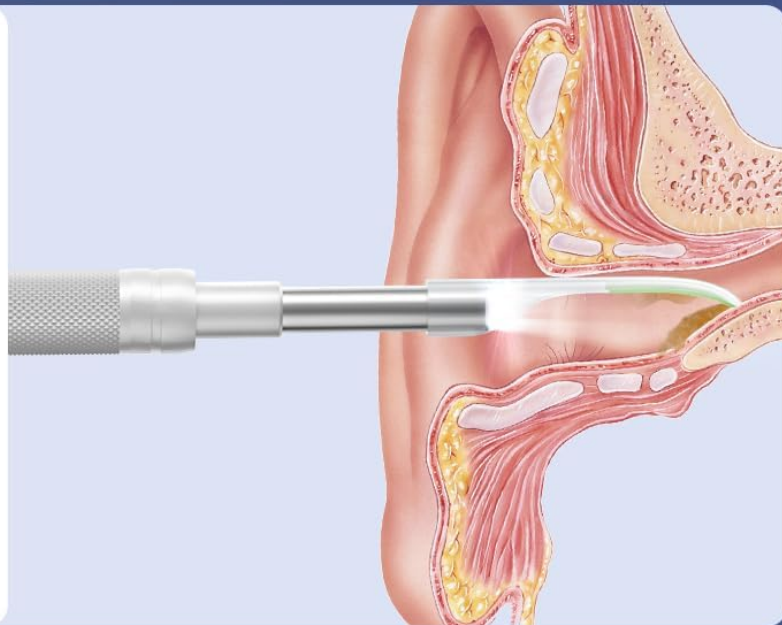


Image: The QzkBoeo T21-OTOSCOPE monitor connected to the camera probe, with a selection of silicone ear picks and protective speculums displayed, illustrating the accessories for use.

6. OPERATION

6.1 Powering On/Off

- To power on, press and hold the **Power Button** until the screen illuminates.
- To power off, press and hold the **Power Button** until the screen turns off.

6.2 Live View and Navigation

- Once powered on, the device will display a live feed from the camera probe on the 4.5-inch IPS screen.
- Use the **Up / Zoom In** and **Down / Zoom Out** buttons to digitally zoom the image up to 4x.
- Press the **Brightness Switch** to cycle through 3 levels of LED light intensity on the camera probe.

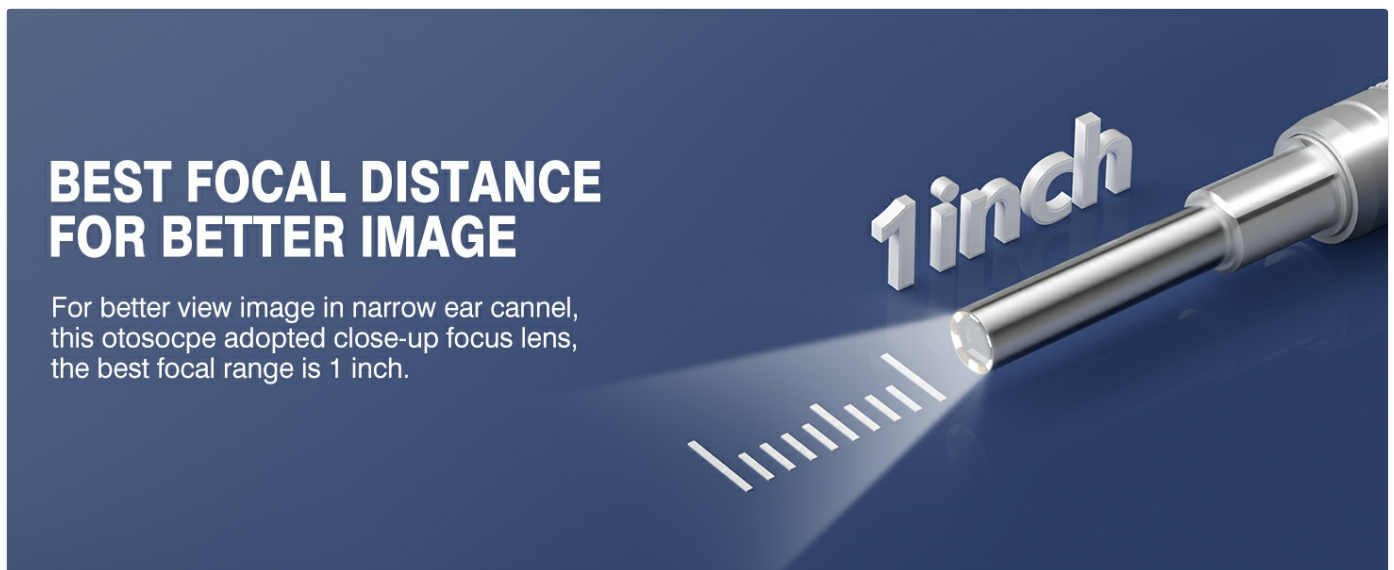


Image: The otoscope monitor displaying a magnified view of the ear canal, demonstrating the digital zoom capability up to 4x.

6.3 Capturing Images and Videos

- **To take a photo:** Press the **Photo / Video Button** once. The image will be saved to the Micro SD card.
- **To record a video:** Press and hold the **Photo / Video Button** for approximately 2 seconds to start recording. Press and hold again to stop recording. The video will be saved to the Micro SD card.
- Images and videos are captured at 1280x720p or 1080p resolution.

6.4 Reviewing Media

- Press the **Back / Menu Button** to access the main menu.
- Navigate to the "Gallery" or "Playback" option using the Up/Down buttons and confirm with the **OK Button**.
- Browse through your saved photos and videos.

6.5 Using the Flashlight

The monitor features an additional LED flashlight on its back for auxiliary lighting. Refer to the product overview diagram for its location. Activate it via the menu or a dedicated button if available (check specific model for exact control).

6.6 General Usage Tips

- For optimal image clarity, maintain a focal distance of approximately 1 inch (2.5 cm) from the object being viewed.
- When inspecting the ear, gently pull the outer ear back and slightly upwards to straighten the ear canal, improving visualization.
- Move the probe slowly and carefully. Avoid sudden movements.

1080 HD IMAGE AND VIDEO

Choice of 720 SD or 1080 HD pixels



Image: A visual representation of the otoscope camera's optimal focal distance, indicating that the clearest image is achieved at approximately 1 inch from the subject.

7. MAINTENANCE AND CARE

7.1 Cleaning the Camera Probe

To prevent blurry images and maintain hygiene, clean the camera probe after each use.

1. Remove any attached speculum or ear pick.
2. The camera head is IP67 waterproof. You can rinse it carefully under running water.
3. Alternatively, use an alcohol wipe or a cotton swab dampened with alcohol to gently clean the lens and tip of the probe.
4. Ensure the probe is completely dry before storage or next use.

LED FLASHLIGHT

Additional lighting is available as an auxiliary gadget.



Image: A three-panel illustration showing the cleaning process for the camera probe: rinsing under water, cleaning with a cotton swab, and wiping with a cloth, highlighting its IP67 waterproof rating.

7.2 Cleaning Ear Picks and Speculums

Disinfect all ear picks and speculums with alcohol after each use to ensure proper hygiene.

7.3 Device Storage

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

- If storing for an extended period, ensure the battery is fully charged to prevent deep discharge.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully using the provided USB cable.
Blurry image on screen.	<ul style="list-style-type: none"> ◦ Earwax or debris on camera lens. ◦ Incorrect focal distance. 	<ul style="list-style-type: none"> ◦ Clean the camera probe lens thoroughly (refer to Section 7.1). ◦ Adjust the distance between the camera and the ear canal to approximately 1 inch (2.5 cm).
Cannot save photos/videos.	<ul style="list-style-type: none"> ◦ Micro SD card is full. ◦ Micro SD card is not inserted correctly or is faulty. 	<ul style="list-style-type: none"> ◦ Delete old files or replace the Micro SD card. ◦ Reinsert the Micro SD card. If the issue persists, try a different compatible card.
Camera probe not working.	Probe not securely connected.	Ensure the camera probe is firmly plugged into the monitor's camera interface.
Device freezes or becomes unresponsive.	Software glitch.	Locate the reset button (usually a small pinhole) and gently press it with a thin object (e.g., a paperclip) to restart the device.

9. SPECIFICATIONS

Feature	Detail
Model Number	T21-OTOSCOPE
Screen Size	4.5-inch IPS Display
Camera Resolution	1080P (1920x1080) / 720P (1280x720)
Lens Diameter	3.9mm
Focal Distance	1 inch (2.5 cm)
Battery Capacity	3000mAh Lithium Polymer
Battery Life	Up to 5 hours (continuous use)
Charging Time	Approx. 3-4 hours
Storage	8GB Micro SD Card (included)
Waterproof Rating	IP67 (camera probe only)
Product Dimensions	7.64 x 5.28 x 1.81 inches
Item Weight	13.1 ounces

10. WARRANTY AND SUPPORT

10.1 Warranty Information

QzkBoeo products are covered by a limited warranty from the date of purchase. Please refer to the warranty card included in your package or contact customer support for specific warranty terms and conditions.

10.2 Customer Support

If you encounter any issues or have questions regarding your QzkBoeo T21-OTOSCOPE, please contact our customer support team. Details for contacting support can typically be found on the product packaging, the official QzkBoeo website, or through your purchase platform.

When contacting support, please provide your model number (T21-OTOSCOPE) and purchase information to expedite assistance.

