

TOOLTOP MS500

TOOLTOP MS500 Digital Otoscope User Manual

Model: MS500

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your TOOLTOP MS500 Digital Otoscope. Please read this manual thoroughly before operating the device and retain it for future reference. The MS500 is designed for visual inspection and recording of the ear canal, featuring a high-definition camera and integrated display.

2. SAFETY INFORMATION

- Do not insert the probe too deeply into the ear canal to avoid injury.
- Always use the provided silicone earwax spoons for safe ear cleaning.
- Keep the device out of reach of children.
- Do not attempt to disassemble or modify the device.
- Ensure the probe is clean before each use to prevent infection.
- If you experience discomfort or pain during use, discontinue immediately and consult a medical professional.
- The probe is IP67 waterproof; however, the main unit is not. Avoid exposing the main unit to liquids.

3. PACKAGE CONTENTS

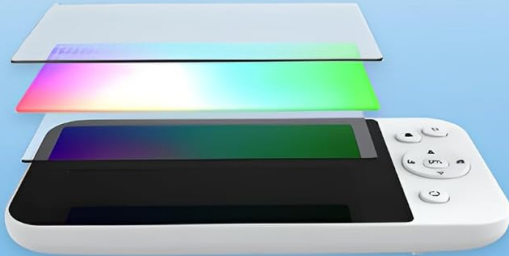
Verify that all items listed below are present in your package:

- TOOLTOP MS500 Digital Otoscope Unit (with integrated 5-inch monitor and probe)
- Silicone Earwax Spoons (various sizes)
- Type-C USB Charging Cable

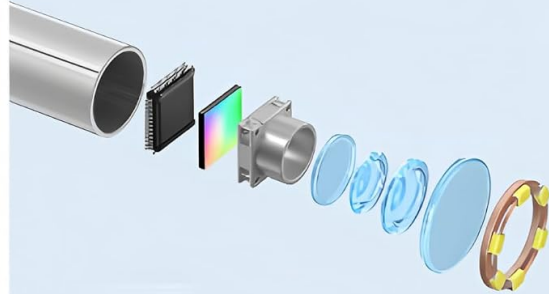
- 32GB SD Card
- User Manual (this document)

5-INCH IPS SCREEN

No app or phone needed. More stable connection with a clearer image.



1080P HD CAMERA & IP67 WATERPROOF PROBE



SILICONE EARWAX SPOONS

Safe and comfortable to use.



2500MAH RECHARGEABLE LITHIUM BATTERY



Image 3.1: Contents of the MS500 package, including the main unit, ear spoons, and charging cable.

4. PRODUCT OVERVIEW

The TOOLTOP MS500 features an integrated 5-inch IPS display and a high-definition camera probe for clear visualization. Familiarize yourself with the device's components and controls.



Image 4.1: Front view of the MS500 main unit with the probe connected. Shows the display and control buttons.



Image 4.2: Exploded view highlighting key features: 5-inch IPS screen, 1080P HD camera, IP67 waterproof probe, silicone earwax spoons, and 2500mAh rechargeable battery.

4.1 Controls and Ports

- **Power Button:** Press and hold to turn the device on or off.
- **OK Button:** Confirm selections or take a photo/start video recording.
- **Menu (M) Button:** Access the device settings menu.
- **Up/Down/Left/Right Navigation Buttons:** Navigate through menus and adjust settings.
- **Brightness Adjustment Button:** Adjust the LED light intensity on the probe.
- **Type-C Port:** For charging and data transfer.
- **SD Card Slot:** Insert the provided 32GB SD card for storage.

5. SETUP

5.1 Charging the Device

1. Connect the Type-C USB charging cable to the device's Type-C port.
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. A full charge typically takes approximately 3-4 hours.

5.2 Inserting the SD Card

1. Locate the SD card slot on the side of the main unit.
2. Insert the provided 32GB SD card with the metal contacts facing down until it clicks into place.
3. To remove, gently push the card in until it springs out.

5.3 Attaching Earwax Spoons

1. Select an appropriate size silicone earwax spoon.
2. Gently slide the spoon onto the tip of the camera probe until it is securely seated.
3. Ensure the spoon does not obstruct the camera lens or LED lights.



Image 5.1: The MS500 unit with various silicone earwax spoons attached to the probe, demonstrating how they fit.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- **To Power On:** Press and hold the Power button for approximately 3 seconds until the screen illuminates.
- **To Power Off:** Press and hold the Power button for approximately 3 seconds until the screen turns off.

6.2 Live View and Brightness Adjustment

- Upon powering on, the device will display a live feed from the camera probe.
- Press the Brightness Adjustment button (usually marked with a sun icon) to cycle through different LED brightness levels on the probe.

6.3 Taking Photos and Recording Videos

- **To Take a Photo:** In live view mode, press the OK button once. A camera icon or flash will briefly appear on the screen, indicating a photo has been captured.
- **To Record a Video:** In live view mode, press and hold the OK button for approximately 2 seconds. A recording indicator (e.g., red dot or timer) will appear. Press and hold the OK button again to stop recording.
- All photos and videos are saved to the inserted SD card.

6.4 Accessing and Managing Files

- Press the Menu (M) button to enter the main menu.
- Navigate using the Up/Down buttons to select 'Gallery' or 'Playback'.
- Press OK to enter. You can then browse your saved photos and videos.
- To transfer files to a computer, connect the device via the Type-C USB cable. The device will appear as a removable storage drive.



Image 6.1: The MS500 unit connected to a laptop via its Type-C USB cable, illustrating data transfer capability.

7. MAINTENANCE

7.1 Cleaning the Probe and Ear Spoons

- After each use, remove the silicone earwax spoon and clean it with mild soap and water. Rinse thoroughly and allow to air dry completely.
- Wipe the camera probe tip with an alcohol wipe or a soft cloth dampened with disinfectant. Ensure no liquid enters the main unit.
- Do not use abrasive cleaners or solvents on any part of the device.

7.2 Cleaning the Main Unit and Screen

- Wipe the main unit and screen with a soft, dry, lint-free cloth.
- For stubborn smudges on the screen, use a screen cleaning solution specifically designed for electronics.

7.3 Storage

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

- Ensure the device is fully charged before long-term storage to preserve battery health.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device for at least 30 minutes.
No image on screen.	Probe not properly connected or damaged.	Ensure the probe is securely connected. If problem persists, contact support.
Cannot take photos/videos.	SD card full or not inserted correctly.	Check SD card insertion. Delete old files or replace SD card.
Image is blurry or dark.	Camera lens dirty; LED brightness too low.	Clean the camera lens. Adjust LED brightness using the dedicated button.
Device freezes or becomes unresponsive.	Software glitch.	Press and hold the power button for 10 seconds to force a restart. If a reset button is available (refer to Image 4.1 for potential location on back), use a pin to press it.

9. SPECIFICATIONS

- **Model:** TT-MS500
- **Screen:** 5-inch IPS HD Monitor
- **Camera Resolution:** 1080P HD
- **Probe Waterproof Rating:** IP67
- **Battery:** 2500mAh Rechargeable Lithium Battery
- **Storage:** Supports 32GB SD Card (included)
- **Connectivity:** Type-C USB
- **Manufacturer:** Teslong Technology

10. WARRANTY AND SUPPORT

The TOOLTOP MS500 Digital Otoscope comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact the seller directly. For technical support or service inquiries, please reach out to the manufacturer or authorized reseller.

Protection plans may be available for extended coverage. Please check with your retailer for details on 3-Year or 4-Year protection plans.

