ILIHOME T57-b

ILIHOME T57-b Digital Handheld Microscope User Manual

Model: T57-b | Brand: ILIHOME

1. Introduction

The ILIHOME T57-b Digital Handheld Microscope is a portable magnifying device featuring a 2.0-inch IPS color screen. It is designed for detailed observation of various objects, suitable for both educational and practical applications. The device includes built-in LED illumination and offers connectivity options for PC use.

Key features include a fixed and ultra macro focus mode with adjustable magnification, 200W HD imaging (1920x1080 resolution), and a 178° wide viewing angle for reduced eye strain. It is powered by a rechargeable Li-ion battery and equipped with an 8-LED lighting system for optimal illumination.



Figure 1: ILIHOME T57-b Digital Handheld Microscope

2. What's in the Box

Verify that all items listed below are present in your product packaging:

- Digital Handheld Microscope (Model T57-b)
- USB Type-C Charging Cable
- Anti-loss & Anti-drop Lanyard
- User Manual



Figure 2: Package Contents

3. Setup

3.1 Charging the Device

Before initial use, fully charge the microscope. Connect the included USB Type-C cable to the device's charging port and the other end to a 5V/1A USB power adapter (not included). The charging time is approximately 1.5 hours. A full charge provides about 1.5 hours of continuous use.

3.2 Inserting a Micro SD Card (Optional)

The device has integrated storage for up to 200 photos. For additional storage and to enable video recording, insert a Micro SD card (not included) into the designated slot. Ensure the card is inserted correctly until it clicks into place.

3.3 Attaching the Lanyard

Attach the anti-loss and anti-drop lanyard to the designated loop on the microscope to prevent accidental drops, especially during outdoor use.

4. Operating Instructions

4.1 Power On/Off

- To power on: Press and hold the power button (usually marked with a power symbol) until the screen illuminates.
- To power off: Press and hold the power button again until the screen turns off.

4.2 Focusing and Magnification

The microscope features a fixed and ultra macro focus mode. To achieve a clear image:

1. Place the microscope flat on the surface of the object you wish to observe.
2. Ensure the microscope maintains full contact with the observed area.
3. Avoid any hand contact during operation to prevent image blurring.
4. Use the zoom in/out buttons (often marked with arrows) to adjust the digital magnification as needed.



Figure 3: Lens and LED System for Focusing

4.3 Adjusting LED Illumination

The 8 LED lights provide natural, glare-free illumination. Press the light button (often integrated with the power button or a separate button) to cycle through different brightness levels or to turn the lights off.



Figure 4: 8 LED Lighting System

4.4 Capturing Images and Recording Videos

- To capture an image: Press the photo button (usually marked with a camera icon) once.
- To record a video: Press and hold the video button (often marked with a video camera icon) to start recording. Press again to stop. *Note: Video recording requires an inserted Micro SD card.*

4.5 PC Connectivity

Connect the microscope to a Windows 10/11 or Mac OS X 11.0+ computer using the included Type-C cable. The device will be recognized as a webcam. You can then use your computer's built-in camera software to view the live feed and save images directly to your computer.

5. Features Overview

- **2-inch IPS Color Screen:** Eye-protective display with integrated storage for up to 200 photos.

Supports Micro SD card expansion.

- **Fixed and Ultra Macro Focus:** Designed for direct observation by placing the microscope flat on the object's surface.
- **PC Compatibility:** Seamless connection with Windows 10/11 and Mac OS X 11.0+ for live viewing and data transfer.
- **200W HD Imaging:** Delivers 1920x1080 resolution with accurate color reproduction and a wide 178° viewing angle.
- **Rechargeable Battery:** Integrated 400mAh Li-ion battery provides 1.5 hours of continuous operation after a 1.5-hour charge.
- **8 LED Lighting System:** Ensures bright, natural, and glare-free illumination for clear viewing in various conditions.
- **Portable Design:** Compact (2.6x4.56in/6.6x11.6cm) and lightweight, with an anti-loss/anti-drop lanyard for easy and secure transport.



Figure 5: IPS Screen Technology



Figure 6: Compact and Portable Design

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device's exterior. For the lens and screen, use a microfiber cloth specifically designed for optics. Avoid abrasive cleaners or solvents.
- **Storage:** Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures. Keep it protected from dust and moisture.
- **Battery Care:** To prolong battery life, avoid fully discharging the device frequently. Charge it regularly, even if not in use for extended periods.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on	Low battery; Device malfunction	Charge the device fully; Contact customer support if issue persists.
Image is blurry	Incorrect distance to object; Device movement	Ensure the microscope is flat on the object; Minimize hand movement.
Cannot connect to PC	Incorrect cable; Driver issue; OS incompatibility	Use the provided Type-C cable; Check PC's camera settings/drivers; Ensure OS is Windows 10/11 or Mac OS X 11.0+.
Cannot record video	No Micro SD card inserted	Insert a compatible Micro SD card.

8. Specifications

Feature	Detail
Model	T57-b
Brand	ILIHOME
Display	2.0-inch IPS Color Screen
Imaging Resolution	1920x1080 (200W HD)
Magnification	Up to 500x (Digital)
Light Source	8 LED Lights
Power Source	400mAh Li-ion Battery
Charging Time	Approx. 1.5 hours (via 5V/1A adapter)
Continuous Use Time	Approx. 1.5 hours
Storage	Integrated (200 photos); Micro SD card slot (expandable)
PC Compatibility	Windows 10/11, Mac OS X 11.0+
Dimensions	2.6 x 4.56 inches (6.6 x 11.6 cm)
Weight	0.12 Kilograms
Material	Plastic

Feature	Detail
Color	Orange

9. Warranty and Support

9.1 Product Warranty

This ILIHOME T57-b Digital Handheld Microscope comes with a 1-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

9.2 Return Policy

Products can be returned for a refund or replacement within 30 days of purchase, subject to the retailer's return policy.

9.3 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact ILIHOME customer support through your purchase platform or the official ILIHOME website.

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