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› T TAKMLY Portable Handheld USB Digital Microscope Macro Camera Model 370 User Manual

T TAKMLY 370

T TAKMLY Portable Handheld USB Digital Microscope Macro Camera

INSTRUCTION MANUAL - MODEL 370

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your T TAKMLY Portable Handheld USB Digital Microscope Macro Camera. Designed for detailed observation, this device features a 2.0-inch IPS color screen, 200W HD pixels, and up to 500x magnification. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Image 1.1: Front and back view of the T TAKMLY Digital Microscope, highlighting the screen and LED light ring.

2. Setup

2.1. Charging the Device

The microscope is equipped with a built-in 400mAh lithium battery. To charge, connect the device using the provided Type-C USB cable to a 5V/1A charging adapter (adapter not included). A full charge takes approximately 1.5 hours and provides about 1.5 hours of continuous working time.

2.2. Micro SD Card (Optional)

To save photos and videos, a Micro SD card (not included) must be inserted. Ensure the Micro SD card is formatted to an exFAT format using a computer before insertion. **Important: Insert the Micro SD card before powering on the device. Inserting the card while the device is on may prevent proper registration.**

3. Operating Instructions

3.1. Power On/Off

Press and hold the power button (orange button) on the device to turn it on or off.

3.2. Device Observation Mode

In this mode, you can view magnified objects directly on the 2.0-inch IPS color screen. The device features a fixed ultra-macro focus. Simply place the microscope flat on the surface of the object to view it. Ensure the item is flat and avoid touching the lens with your hands to prevent blurry images.

- **Taking Photos:** Press the dedicated shutter button (usually marked with a camera icon) to capture an image.
- **Reviewing Photos:** Press the menu/review button (usually marked with three lines or an arrow) to browse saved images.
- **Adjusting Magnification:** Use the zoom adjustment buttons (plus and minus) to digitally zoom up to 4x on the screen.
- **LED Lights:** The device includes 8 adjustable LED light sources for illumination in various conditions.



Image 3.1: The digital microscope displaying a magnified circuit board on its 2.0-inch IPS color screen.

3.3. Computer Observation Mode

Connect the microscope to a computer (Windows 10, 11, Mac OS X/11.0+) using the Type-C USB cable. Open the built-in camera software on your computer to view the magnified image on a larger screen. In this mode, you can take photos and record videos directly to your computer. **Note: The physical buttons on the microscope cannot be used when connected to a computer in this mode.**



Image 3.2: The digital microscope connected to a laptop via USB-C, showing the magnified view on the computer screen.

3.4. Memory Card Reading Mode

If a Micro SD card is inserted, you can select the memory card reading mode (if available via menu options) to access and manage stored photos and videos directly on the device screen or by connecting the device to a computer.

4. Features

- **2.0-inch IPS Color Screen:** Provides real-time observation, photo capture, and review capabilities. Internal storage for up to 100 photos (cannot be downloaded, but can be deleted).

- **200W HD Pixels:** Delivers HD 1920x1080P resolution with realistic colors and a 178° visual angle, reducing eye fatigue compared to traditional magnifying glasses.
- **500x Magnification:** Fixed ultra-macro magnification up to 500x with a 4x digital zoom adjustment knob.
- **8 LED Light Sources:** Integrated bright natural light with adjustable brightness, eliminating the need for additional lighting.
- **Rechargeable Battery:** Built-in 400mAh lithium battery, charged via Type-C USB.
- **Portable Design:** Compact size (2.6 x 4.56 inches / 6.6 x 11.6 cm) for easy portability.
- **Versatile Applications:** Suitable for observing coins, fabrics, diamonds, animal testing, plant trichomes, jewelry, stamps, skin, hair, and electronics (not suitable for PCB soldering due to fixed focal length).



Image 4.1: Visual breakdown of the microscope's key features and specifications.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device body. For the lens and screen, use a specialized

lens cleaning cloth and solution to avoid scratches.

- **Storage:** Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the device frequently. Charge it regularly, even if not in use for extended periods.

6. Troubleshooting

- **Blurry Images:** Ensure the microscope is placed flat and directly on the object being viewed. The device has a fixed focal length, so adjust the distance by placing it directly on the surface. Avoid touching the lens during observation.
- **Micro SD Card Not Recognized:** Ensure the Micro SD card is properly formatted to exFAT on a computer. Always insert the Micro SD card before powering on the microscope. If inserted while on, power off the device, re-insert the card, and then power on.
- **Buttons Unresponsive in Computer Mode:** This is normal. When connected to a computer, control the microscope's functions (photo, video) directly through the computer's camera software.
- **Device Not Powering On:** Check the battery level. Connect the device to a charger and allow it to charge for at least 15 minutes before attempting to power it on again.

7. Specifications

Feature	Detail
Model Number	370
Screen Size	2.0 inch IPS Color Screen
Pixel Resolution	200W HD (1920x1080P)
Magnification	Up to 500x (Fixed Ultra Macro)
Digital Zoom	4x adjustment knob
Light Source	8 LED lights (adjustable brightness)
Battery	Built-in 400mAh Lithium Ion
Charging Time	Approx. 1.5 hours
Continuous Working Time	Approx. 1.5 hours
Charging Interface	Type-C USB (5V/1A adapter required, not included)
Compatibility	Windows 10, 11, Mac OS X/11.0+
Dimensions	2.6 x 4.56 inches / 6.6 x 11.6 cm
Item Weight	3.2 ounces

8. What's in the Box

- T TAKMLY Digital Microscope (Model 370)
- Type-C USB Charging Cable

9. Warranty and Support

For warranty information, technical support, or any inquiries regarding your T TAKMLY Digital Microscope, please contact the manufacturer directly. Refer to the product packaging or the official T TAKMLY website for contact details.