

# **Portable Digital Microscope Kids 1000X Handheld – User Manual**

**Model: Portable 1000X Handheld Microscope with 2-inch LCD  
Screen**

Includes: 32GB SD Card, Adjustable LED Lights, USB Cable, and Sample Slides

# 1. Product Overview

The Portable Digital Microscope Kids 1000X Handheld is a compact, rechargeable microscope designed for education, hobby, and field research. It features a 2-inch LCD display, up to 1000X magnification, adjustable LED illumination, and video/photo capture via SD card.

## 2. Technical Specifications

- Magnification: 1000X (digital zoom supported)
- Display: 2.0-inch LCD color screen
- Camera Resolution: Up to 3840x2160 (4K photo), 1920x1080 (Full HD video)
- Frame Rate: 20–30 fps
- Focus Range: 0–46 mm (manual focus)
- Lighting: 8 adjustable white LEDs
- Storage: 32 GB SD card (included)
- File Formats: JPEG (image), AVI (video)
- Power: Rechargeable lithium battery (USB-C charging)
- Working Time: Up to 4 hours continuous use
- Dimensions: Approx. 11 x 9.5 x 4.5 cm
- Weight: 160 g (0.35 lb)

## 3. Package Contents

- 1x Portable 1000X Digital Microscope
- 1x 32GB SD Memory Card
- 1x USB Charging/Data Cable
- 1x Set of Prepared Sample Slides
- 1x Adjustable Stand (optional, depending on model)
- 1x Cleaning Cloth
- 1x User Manual

## 4. Setup and Operation

1. Charge the microscope using the supplied USB-C cable until the LED indicator turns green.
2. Insert the 32GB SD card into the slot on the side of the device.
3. Power on the microscope by holding the Power button for 3 seconds.
4. Adjust magnification using the focus wheel on the side of the lens barrel.
5. Capture photos or videos by pressing the corresponding button near the display.
6. Adjust LED brightness using the light control dial.
7. Connect to a computer via USB to transfer captured media or recharge the device.

## 5. Safety Instructions

- Do not expose the device to direct sunlight, high humidity, or extreme temperatures.
- Avoid touching the lens with fingers. Use the provided cleaning cloth only.
- Do not overcharge the battery or use damaged charging cables.
- Keep out of reach of very young children without supervision.
- Disconnect USB cable before cleaning or when not in use for extended periods.

## 6. Troubleshooting

Issue: Screen does not turn on → Solution: Ensure battery is charged or connect to USB power. Issue: Image is blurry → Solution: Adjust focus wheel and ensure sample is properly lit. Issue: No image capture to SD card → Solution: Reinsert or reformat SD card (FAT32 format recommended). Issue: LEDs not working → Solution: Check power level or toggle LED control dial.

## 7. Maintenance and Storage

- Store the microscope in a cool, dry place when not in use.
- Clean lens gently with microfiber cloth and lens cleaner if needed.
- Do not use solvents, alcohol, or abrasive materials.
- Recharge the battery at least once every three months if stored long-term.

## 8. Warranty Information

This microscope is covered by a 1-year limited warranty against manufacturing defects. Warranty excludes damage from misuse, improper charging, liquid exposure, or physical impact. For service inquiries, contact your retailer or distributor with proof of purchase.