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› HUTACT Portable Digital Microscope 1000X with 2.0" IPS Screen (Model NHKJ-TV3-927) User Manual

## HUTACT NHKJ-TV3-927

# HUTACT Portable Digital Microscope 1000X with 2.0" IPS Screen

Model: NHKJ-TV3-927 User Manual

## 1. INTRODUCTION

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Thank you for choosing the HUTACT Portable Digital Microscope. This device is designed to introduce young explorers to the fascinating microscopic world with its 100-1000X magnification, 2.0-inch IPS screen, and versatile 2-in-1 handheld and desktop functionality. This manual provides essential information for safe and effective use, setup, operation, maintenance, and troubleshooting.

Please read this manual thoroughly before using the product and retain it for future reference.

## 2. IMPORTANT SAFETY INFORMATION

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- **Adult Supervision:** This product is recommended for children aged 5 and above and should always be used under adult supervision.
- **Battery Safety:** The device contains a rechargeable lithium-polymer battery. Do not attempt to replace the battery. Do not expose the device to extreme temperatures, direct sunlight, or fire.
- **Charging:** Use only the provided Type-C charging cable. Ensure the charging port is dry before connecting.
- **Cleaning:** Clean the lens and screen with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Handling:** Handle the microscope with care. Avoid dropping or subjecting it to strong impacts.
- **Small Parts:** The kit contains small parts that may pose a choking hazard for young children. Keep out of reach of children under 3 years old.

## 3. PACKAGE CONTENTS

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

- Portable Digital Microscope with integrated screen
- Microscope Holder (for desktop use)
- USB Type-C Charging Cable
- Lanyard
- 5 Prepared Specimen Slides
- 5 Blank Slides
- Collection Bottles (2)
- Collection Boxes (2)
- Blenders (2)
- Plastic Stirrer
- Tweezers
- Instruction Manual



**Figure 3.1:** All components included in the HUTACT Portable Digital Microscope kit, neatly arranged. This image displays the portable microscope unit, the desktop stand, various tools like tweezers and stirrers, collection bottles, a Type-C cable, a lanyard, and both prepared and blank specimen slides.

## 4. PRODUCT OVERVIEW

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The HUTACT Digital Microscope offers a versatile design for both handheld and desktop observation. Familiarize yourself with its main components:

- **2.0" IPS Screen:** Displays real-time magnified images and videos.
- **Focus Knob:** Adjusts the clarity of the image.
- **Magnification Buttons:** Cycles through 10 levels of digital zoom (100X-1000X).
- **Capture Button:** Takes photos or starts/stops video recording.
- **LED Illumination:** Provides light for observing specimens.
- **Type-C Port:** For charging and connecting to a computer.
- **TF Card Slot:** For optional external storage (TF card not included).



**Figure 4.1:** The HUTACT Digital Microscope demonstrating its 2-in-1 functionality. The image shows the main microscope unit being used in handheld mode by a child, and also placed into its stable desktop stand for more detailed observation. This highlights the flexibility of the device for various exploration scenarios.

## 10 Levels of Adjustable Magnification

100-1000x digital microscope with real-time LED display



**Figure 4.2:** A close-up view of the HUTACT Digital Microscope's screen and focus knob, illustrating the 10 levels of adjustable magnification. The image displays examples of a ladybug at 100X, a leaf vein at 500X, and a detailed cellular structure at 1000X, demonstrating the clarity and range of magnification.

## 5. SETUP

### 5.1 Charging the Device

1. Connect the provided Type-C USB cable to the microscope's charging port.
2. Plug the other end of the cable into a standard USB power adapter (not included) or a computer's USB port.
3. The charging indicator light will illuminate. A full charge takes approximately 1.5 hours and provides up to 1.5 hours of continuous use.

### 5.2 Assembling the Microscope (Desktop Mode)

1. Take the portable microscope unit and the microscope holder.
2. Gently slide the portable microscope into the designated slot on the holder until it is securely seated.
3. Ensure the microscope is stable on a flat surface before use.

### 5.3 Inserting a TF Card (Optional)

The microscope has 16 internal storage slots for photos. For extended storage of photos and

videos, a TF (MicroSD) card (up to 64GB, not included) can be inserted.

1. Locate the TF card slot on the side of the microscope.
2. Insert the TF card with the metal contacts facing down until it clicks into place.
3. To remove, gently push the card in again until it springs out.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Power On/Off

- **Power On:** Press and hold the Power button for a few seconds until the screen illuminates.
- **Power Off:** Press and hold the Power button again until the screen turns off.

### 6.2 Adjusting Magnification

The microscope offers 10 levels of digital magnification, ranging from 100X to 1000X.

- Use the magnification buttons (usually marked with '+' and '-') to cycle through the different zoom levels.
- Observe the change in magnification on the 2.0" IPS screen.

### 6.3 Focusing

To achieve a clear image:

- Place your specimen directly under the microscope lens.
- Slowly rotate the focus knob until the image on the screen becomes sharp and clear.

### 6.4 Handheld Mode

For outdoor exploration or examining larger objects:

1. Remove the microscope unit from its desktop holder.
2. Hold the microscope firmly and position the lens over the object you wish to observe.
3. Adjust the focus knob for clarity.

### 6.5 Desktop Mode

For detailed observation of slides or stationary objects:

1. Ensure the microscope unit is securely placed in its holder.
2. Place a specimen slide or object on the stage directly under the lens.
3. Adjust the focus knob and magnification as needed.

### 6.6 Capturing Photos and Videos

The microscope features a 100W pixel camera for documenting your discoveries.

- **To take a photo:** Press the Capture button once. The image will be saved to internal memory or the TF card if inserted.
- **To record a video:** Press and hold the Capture button to start recording. Press and hold again to stop. Videos require a TF card for storage.

## Supports **Photo and Video** Recording Functions

Comes with storage space for about 16 photos, recording video requires inserting a TF card (not included).



**Figure 6.1:** The microscope's screen displaying both photo and video recording functions. The top image shows a still capture of red cup fungi, while the bottom image shows a video recording in progress of an insect, indicating the device's capability to document observations.

### 6.7 Connecting to a Computer

For larger screen viewing or sharing, connect the microscope to a Windows or Mac computer:

1. Ensure the microscope is powered on.
2. Connect the microscope to your computer using the Type-C USB cable.
3. The microscope should be recognized as a webcam or storage device. You may need to select the appropriate mode on the microscope's menu or use a standard webcam application on your computer.

### 6.8 Using Specimen Slides

The kit includes both prepared and blank slides for diverse experiments.

- **Prepared Slides:** Place a prepared slide directly onto the microscope stage for immediate observation.
- **Blank Slides:** Use the provided laboratory gadgets (tweezers, stirrers, collection bottles) to collect and prepare your own specimens on the blank slides.



## Examine 5 Specimen Slides & Make 5 Slides of Your own!

**Figure 6.2:** Two children, wearing safety glasses, engaged in scientific exploration using the HUTACT Digital Microscope. One child uses the microscope in desktop mode to examine a slide, while the other holds a blank slide, demonstrating the process of preparing and observing specimens.

## 7. MAINTENANCE

- **Cleaning:** Use a soft, lint-free cloth to clean the microscope body. For the lens and screen, use a specialized lens cleaning cloth. Do not use liquid cleaners directly on the device.
- **Storage:** Store the microscope and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in use for extended periods.

## 8. TROUBLESHOOTING

If you encounter any issues, refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Microscope does not power on.	Low battery or device is off.	Charge the microscope fully. Press and hold the Power button for a few seconds.
Image is blurry.	Out of focus or lens is dirty.	Rotate the focus knob until the image is clear. Clean the lens with a soft cloth.
Cannot record videos.	No TF card inserted or TF card is full.	Insert a TF card. Ensure the TF card has sufficient free space.
Cannot connect to computer.	Incorrect cable, port, or software.	Ensure you are using the correct Type-C cable. Try a different USB port on your computer. Check computer settings for webcam or storage device recognition.

## 9. SPECIFICATIONS

Feature	Detail
Brand	HUTACT
Model	NHKJ-TV3-927
Magnification	100X - 1000X
Screen Size	2.0 inch IPS
Camera Resolution	100W pixels (for photos/videos)
Internal Storage	16 photo slots
External Storage	TF Card (up to 64GB, not included)
Battery	450mAh Lithium-polymer (included)
Battery Life	Approx. 1.5 hours
Charging Port	Type-C USB
Connectivity	USB to Windows/Mac PC
Material	ABS
Item Weight	290 Grams
Product Dimensions (L x W x H)	12.5 x 11 x 9 cm

## 10. WARRANTY AND SUPPORT

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HUTACT is committed to providing quality products. For any questions, concerns, or technical support regarding your Portable Digital Microscope, please contact our customer service. Please refer to your purchase documentation for specific warranty details and contact information.

We encourage you to register your product on our official website to receive updates and support.