

HEWEIMEI P2

HEWEIMEI 1600X Digital Microscope for Kids

Model: P2 - Instruction Manual

1. INTRODUCTION

The HEWEIMEI 1600X Digital Microscope is designed to introduce young scientists to the microscopic world. Featuring adjustable magnification, a large digital screen, and versatile usage modes, it encourages hands-on learning and scientific exploration. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your microscope.

2. PACKAGE CONTENTS

- HEWEIMEI 1600X Digital Microscope (Model P2)
- Prepared Slides
- Instruction Manual
- Sample Preparation Kit (tools for creating custom slides)
- Lanyard
- USB Charging Cable



Image: The HEWEIMEI 1600X Digital Microscope shown with its included accessories, including prepared slides, sample preparation tools, and charging cable.

3. PRODUCT FEATURES

- **1600X High-Powered Magnification:** The microscope offers an adjustable zoom range from 100x to 1600x, enabling detailed observation of various specimens.
- **4.0-Inch Large IPS Screen & 1080P HD Camera:** Features a 4.0-inch IPS screen for bright, clear real-time visuals and a built-in 48MP 1080P camera to capture high-definition photos and videos.
- **3-in-1 Multi-Functional Design:** Detachable design allows for desktop, handheld, and portable usage modes, adapting to different exploration needs.
- **6 Adjustable LED Fill Lights:** Integrated LED lights with 3 adjustable brightness modes ensure optimal visibility in various lighting conditions.
- **Large-Capacity Rechargeable Battery:** Provides up to 4 hours of continuous use on a full charge for extended exploration.
- **PC Connectable:** Can connect to a computer for real-time viewing on a larger screen, facilitating sharing and presentation of discoveries.



Image: Visual representation of the 100x, 400x, and 1600x magnification capabilities, demonstrating increasing detail of a specimen.

4.0-INCH IPS HD LARGE SCREEN.



Other

Small screen

Blurred imaging

Viewed by one person only

Ours

Bigger screen

Clear imaging

Supports multiple view

VS

Image: The microscope's 4.0-inch IPS HD screen is highlighted, showing a clear, vibrant image of a ladybug, emphasizing its superior viewing experience.

3-IN-1 DESIGN



Image: The microscope is shown in its three versatile modes: a child using it in experimental stand mode, another child using it as a portable handheld device outdoors, and a third child using it for stable recording.

4. SETUP

1. **Charging the Device:** Connect the microscope to a USB power source using the provided USB charging cable. The device has a built-in rechargeable battery.
2. **Assembling the Base (Optional):** For desktop use, attach the microscope unit to its base. Ensure it clicks securely into place.
3. **Inserting Prepared Slides:** Place a prepared slide onto the stage of the microscope. Use the clips to hold it in place if available.
4. **Powering On:** Press and hold the power button (usually marked with a power symbol) until the screen illuminates.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Adjusting Magnification:** Use the zoom buttons (up/down arrows) on the device to adjust the digital magnification from 100x to 1600x.

- **Focusing:** Rotate the focusing knob (typically on the side of the microscope body) to bring the specimen into clear view on the screen.
- **Adjusting LED Lights:** Use the dedicated button to cycle through 3 adjustable brightness modes for the 6 built-in LED fill lights.
- **Capturing Photos/Videos:** Press the designated photo/video button to capture images or start/stop video recording. Ensure an SD card is inserted to save media.

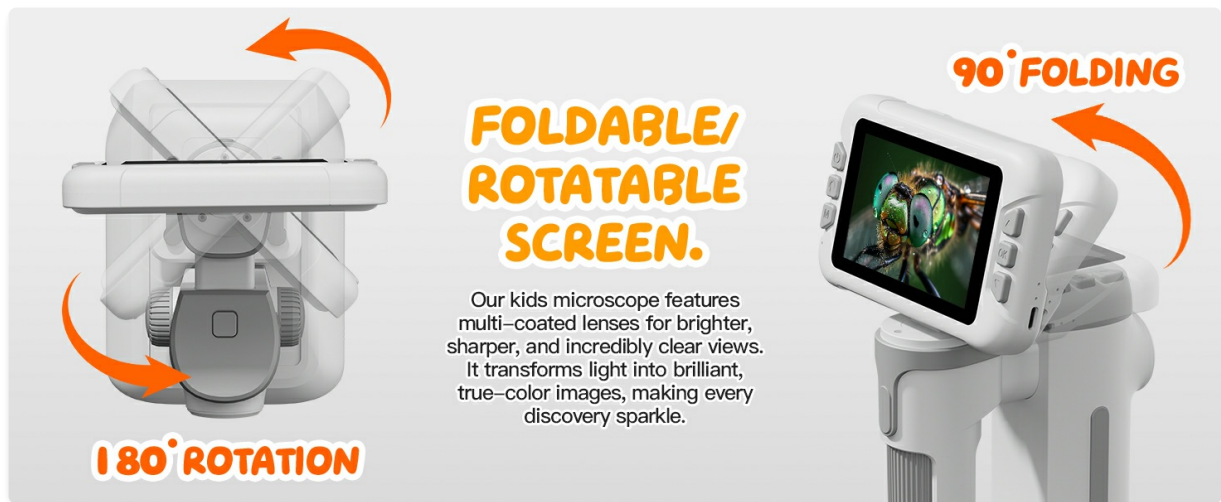


Image: A child uses the handheld microscope to observe and capture images and videos of a bee on a flower and a butterfly, illustrating the device's photo and video capabilities.

5.2 Using Different Modes

- **Desktop Mode:** Attach the microscope to its base for stable, prolonged observation.
- **Handheld Mode:** Detach the microscope from its base to explore objects directly, such as plants, fabrics, or skin.
- **Portable Mode:** The compact design allows for easy transport for outdoor adventures.

5.3 Connecting to a PC

- Connect the microscope to your computer using the provided USB cable.
- The device may prompt you to select a mode (e.g., PC Camera, Mass Storage). Choose 'PC Camera' to view the live feed on your computer screen.
- Compatible with Windows Vista/XP/7/8/10/11 and MacOS 11.0 or higher.



Image: The microscope is shown connected to both a laptop and a smartphone, demonstrating its capability to share observations in real-time on larger screens.

5.4 Using Slides and Collection Cards

- Use the included prepared slides to immediately begin observations.
- The collection cards provide ideas for objects to find and observe, such as flower stamens, seashells, leaves, and pollen, encouraging active exploration.



Image: The microscope is displayed alongside a variety of prepared lab slides, showcasing different specimens like onion skin, bee parts, and plant structures for observation.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microscope body and screen. For the lens, use a specialized lens cleaning cloth and solution.
- **Battery Care:** Charge the battery regularly to maintain its lifespan. Avoid fully discharging the battery frequently.
- **Storage:** Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **No Power:** Ensure the battery is charged. Connect the USB cable to a power source and try again.
- **Blurred Image:** Adjust the focusing knob slowly until the image becomes clear. Ensure the specimen is properly positioned.
- **Screen is Dark:** Check the LED light brightness settings and adjust as needed. Ensure the specimen is adequately illuminated.
- **Cannot Save Photos/Videos:** Verify that an SD card is correctly inserted into the device. Check if the SD card has sufficient free space.

8. SPECIFICATIONS

Brand	HEWEIMEI
Model Name	P2
Magnification	100x - 1600x
Screen Size	4.0 inches IPS
Camera Resolution	48MP (1080P Video)
Light Source	6 Adjustable LED Lights
Battery Life	Up to 4 hours continuous use

Connectivity	USB to PC
Dimensions	6.29 x 4.72 x 10.23 inches
Item Weight	15.9 ounces (450 Grams)
Material	Metal, Plastic

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact HEWEIMEI customer service directly. Keep your purchase receipt for any warranty claims.