

BMDSAE 382

BMDSAE 1000X Handheld Digital Microscope Model 382 User Manual

Model: 382

1. INTRODUCTION

Thank you for choosing the BMDSAE 1000X Handheld Digital Microscope. This device is designed to provide an engaging and educational experience for children, allowing them to explore the microscopic world with ease. Featuring 1000X magnification, a 2.0-inch IPS screen, and photo/video capabilities, this microscope is a valuable tool for STEM learning and discovery.



Image: Children engaging with the handheld digital microscope in an outdoor setting.

2. SAFETY INFORMATION

This product is constructed from eco-friendly ABS plastic and is certified with CE/FCC/CPC safety standards, ensuring it is odorless and smooth with no rough edges. It is suitable for children aged 3 years and older. Please observe the following safety guidelines:

- Ensure the device is used under adult supervision, especially with younger children.
- Avoid direct exposure of the microscope lens to strong light sources, including the sun, to prevent eye damage.
- Do not attempt to disassemble or modify the microscope, as this may void the warranty and pose safety risks.
- Keep the device away from water and high humidity to prevent electrical damage.
- Use only the provided USB-C cable for charging.

3. WHAT'S IN THE BOX

Upon opening your package, please verify that all the following items are included:

- Microscope (1 unit)
- Lanyard (1 unit)
- Instruction manual (1 unit)
- USB-C data cable (1 unit)

4. SETUP

4.1 Charging the Microscope

Before first use, fully charge the microscope. Connect the provided USB-C data cable to the microscope's charging port and the other end to a USB power adapter (not included) or a computer's USB port. The charging indicator will show the charging status. A full charge provides approximately 2 hours of continuous use.



Image: The microscope's rechargeable battery and USB-C charging port.

4.2 Powering On/Off

To power on the microscope, press and hold the power button located on the device until the screen illuminates. To power off, press and hold the power button again until the screen turns off.

5. OPERATING INSTRUCTIONS

5.1 Adjusting Magnification and Focus

The microscope offers up to 1000X optical and digital magnification. To adjust the focus, rotate the large focus dial on the side of the microscope until the image on the 2.0-inch IPS screen appears clear. The anti-shake design helps maintain a stable view.



Image: Demonstrating the 1000X zoom capability and focus adjustment.

5.2 Adjusting LED Illumination

The microscope features an 8-LED system with 3 adjustable brightness modes (Off/Medium/High). Press the LED button to cycle through the brightness settings. The diffuser helps prevent glare and ensures even illumination of specimens.

5.3 Capturing Photos and Videos

The microscope has 32MB of built-in storage, capable of storing over 200 high-resolution photos or AVI videos. Use the designated buttons to switch between photo and video modes and to capture images or start/stop recording.



Image: The microscope's ability to capture 1080P photos and videos.

5.4 Connecting to a Computer

To export captured content, connect the microscope to a Windows (XP/Vista/7/8/10/11) or Mac (11.0+) system using the USB-C data cable. The device will appear as a removable storage device, allowing you to transfer photos and videos.



Image: Connecting the microscope to a computer for data transfer.

5.5 Exploring with the Microscope

The microscope is suitable for both indoor and outdoor exploration. Use the included lanyard for portability during outdoor adventures. Explore various objects such as leaves, insects, fabrics, and skin to discover their intricate details.



Image: Demonstrating indoor and outdoor use of the microscope.

5.6 Official Product Videos

Your browser does not support the video tag.

Video: An overview of the BMDSAE 1000X Handheld Digital Microscope's features and ease of use.

Your browser does not support the video tag.

Video: Demonstrating the microscope's capabilities and suitability for children.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the microscope. For the lens and screen, use a specialized lens cleaning cloth to avoid scratches.
- **Storage:** Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, charge the device regularly and avoid completely draining the battery for extended periods.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Microscope does not power on.	Low battery or device is off.	Charge the microscope using the USB-C cable. Press and hold the power button to turn on.
Image is blurry.	Focus is not adjusted correctly.	Rotate the focus dial until the image becomes clear. Ensure the microscope is close enough to the object.
Screen is too dark/bright.	LED illumination setting is incorrect.	Press the LED button to adjust brightness (Off/Medium/High).
Cannot transfer files to computer.	Incorrect connection or incompatible system.	Ensure the USB-C cable is securely connected. Verify your computer's operating system is Windows XP/Vista/7/8/10/11 or Mac OS 11.0+.
No image on screen.	Lens is obstructed or too far from object.	Check for any obstructions on the lens. Position the microscope closer to the object.

8. SPECIFICATIONS

Feature	Detail
Model Name	382
Brand	BMDSAE
Magnification Maximum	1000X
Screen	2.0-inch IPS Screen
Camera Resolution	2MP
Light Source Type	8 Adjustable LEDs
Battery Capacity	600mAh (approx. 2 hours playtime)
Material	Eco-friendly ABS plastic
Item Weight	0.22 kg
Compatible Devices	Windows XP/Vista/7/8/10/11, Mac OS 11.0+
Safety Certifications	CE/FCC/CPC

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This BMDSAE 1000X Handheld Digital Microscope comes with a 1-year worry-free warranty from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact BMDSAE customer support through the retailer where the product was purchased or refer to the contact information provided in the product packaging. Our support team is available to assist you with any issues you may encounter.

ASK A QUESTION ABOUT THIS MANUAL

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