

Veho VMS-008-DX3

Veho Discovery DX-3 2-in-1 USB Digital Microscope & Telescope User Manual

Model: VMS-008-DX3

1. INTRODUCTION

The Veho Discovery DX-3 is a versatile 2-in-1 digital device functioning as both a portable microscope and a telescope. It features a 12-megapixel camera, up to 1600x digital magnification for microscopic viewing, and a telescope function for observing objects from 3 meters up to 500 meters. Equipped with a 2.4-inch color LCD display, it allows for direct viewing, photo capture, and video recording at 1080P 30fps. The device includes a rechargeable battery, a Micro SD card slot for storage, and HDMI output for connecting to external displays. A stand and tripod are also included for stable operation.

2. PACKAGE CONTENTS

Please ensure all items are present in your package:

- Veho DX-3 Microscope
- Stand
- User Guide
- Software CD

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your Veho Discovery DX-3.



Figure 3.1: Front view of the Veho Discovery DX-3 digital microscope, showing the main unit with its integrated LCD screen, control buttons, and the microscope lens assembly.



Figure 3.2: Another perspective of the Veho Discovery DX-3, highlighting the LCD screen and the arrangement of the control buttons for navigation and operation.



Figure 3.3: The Veho Discovery DX-3 unit attached to its adjustable stand, providing stability for microscopic observation. The stand includes a base plate and a vertical support arm.



Figure 3.4: Detail view of the connectivity ports on the Veho Discovery DX-3, showing the HDMI output, TV-out, and DC/USB input for charging and data transfer.



Figure 3.5: The Veho Discovery DX-3 held in a hand, illustrating its compact and portable design for handheld use.

Key Components:

- **2.4" Color LCD Display:** For live viewing and playback.
- **Control Buttons:** Power, Menu, OK, Up/Down navigation for settings and capture.
- **Microscope Lens:** For close-up observation with adjustable focus.
- **LED Illumination:** Integrated lights around the lens for illuminating subjects.
- **Focus Wheel:** To adjust the clarity of the image.
- **Micro SD Card Slot:** For storing captured photos and videos.
- **HDMI Output:** For connecting to an external monitor or TV.
- **DC/USB Port:** For charging the device and connecting to a computer.
- **Stand:** Provides stability for precise observation.

4. SETUP

4.1 Charging the Battery

Before first use, fully charge the internal rechargeable battery. Connect the supplied USB cable to the DC/USB port on the device and the other end to a compatible USB power adapter (not included) or a computer USB port. The charging indicator light will show the charging status.

4.2 Inserting a Micro SD Card

To save photos and videos, a Micro SD card (not included) is required. Locate the Micro SD card slot on the side of the device. Gently insert the Micro SD card with the gold contacts facing down until it clicks into place. To remove, push the card in again until it springs out.

4.3 Assembling the Stand

Attach the main unit to the provided stand for stable observation. Secure the microscope into the stand's holder and adjust the height and angle using the stand's knobs to position the lens over your subject. Ensure all locking mechanisms are tightened to prevent movement during use.

4.4 Software Installation (for PC Connection)

For advanced features and PC connectivity, install the software from the included mini-CD. Insert the mini-CD into your computer's CD-ROM drive and follow the on-screen instructions. If your computer does not have a compatible CD drive, please visit the official Veho support website to download the latest software and drivers.

5. OPERATING

5.1 Powering On/Off

Press and hold the Power button (usually marked with a  symbol) for a few seconds to turn the device on or off. The LCD screen will illuminate upon startup.

5.2 Switching Modes (Microscope/Telescope)

The DX-3 functions as both a microscope and a telescope. For microscopic viewing, position the lens close to the subject (0.5cm to macro). For telescope function, aim the device at distant objects (3M to 500M). The device automatically adjusts its focus range based on the distance to the object. Use the focus wheel for fine adjustments.

5.3 Adjusting Magnification and Focus

The DX-3 offers up to 1600x digital magnification. Rotate the focus wheel on the lens barrel to achieve a clear image. For microscopic use, place the object directly under the lens. For telescopic use, point the device towards the desired distant object. Optimal focus points exist for different magnification levels.

5.4 Adjusting LED Illumination

For microscopic observation, the integrated LED lights provide illumination. Use the LED brightness adjustment knob (if present, typically a small wheel on the side) to control the intensity of the lights for optimal viewing conditions.

5.5 Capturing Photos and Videos

While viewing on the LCD screen, press the 'OK' button to capture a still image. To record video, navigate to the video mode using the menu buttons and then press 'OK' to start/stop recording. Videos are recorded at 1080P 30fps. All captured media is saved to the inserted Micro SD card.

5.6 Connecting to External Displays (HDMI/TV-out)

Connect the DX-3 to a television or monitor using an HDMI cable (not included) or the TV-out port for a larger viewing experience. Ensure the external display is set to the correct input source. The device's display will mirror on the external screen.

5.7 Connecting to a Computer (USB)

Connect the DX-3 to your computer using the USB cable. Once connected, the device can function as a webcam or allow access to the Micro SD card contents. Ensure the necessary drivers and software are installed on your computer for full functionality.

6. MAINTENANCE

6.1 Cleaning the Device

Use a soft, dry, lint-free cloth to clean the body of the device. For the lens and LCD screen, use a specialized lens cleaning cloth and solution. Avoid using abrasive cleaners or solvents, as these can damage the surfaces.

6.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the device regularly, especially if it has not been used for an extended period. Store the device in a cool, dry place when not in use.

6.3 Storage

When not in use, store the Veho Discovery DX-3 in its original packaging or a protective case to prevent dust accumulation and physical damage. Keep it away from extreme temperatures and humidity.

7. TROUBLESHOOTING

- **Device does not power on:** Ensure the battery is charged. Connect the device to a power source and try again. If the issue persists, the battery may need replacement or service.
- **No image on LCD screen:** Check if the device is powered on. Ensure the lens cap (if any) is removed. Adjust the focus wheel. If connected to an external display, ensure the cable is securely connected and the display input is correct.
- **Cannot focus clearly:** Ensure the subject is within the appropriate working distance for microscope or telescope mode. Rotate the focus wheel slowly for fine adjustment. For microscopic use, ensure sufficient lighting from the LEDs.
- **Software installation issues:** If using the mini-CD, ensure your computer's CD drive is compatible. If not, download the latest software and drivers directly from the official Veho support website. Ensure your operating system is compatible with the software.
- **Cannot save photos/videos:** Ensure a Micro SD card is inserted correctly and has sufficient free space. Check if the card is locked (read-only). Format the Micro SD card if necessary (this will erase all data).
- **Poor image quality:** Ensure the lens is clean. Adjust the LED illumination. For microscopic use, ensure the subject is stable. For telescopic use, environmental factors like atmospheric distortion can affect image quality.

8. SPECIFICATIONS

Model Name	DX-3
Item Model Number	VMS-008-DX3
Magnification Maximum	2000x (Digital, up to 1600x mentioned in features)
Telescope Function Range	3M to 500M
Microscope Macro Close-up	0.5cm to Macro

Display	2.4" Color LCD Display
Camera Resolution	Up to 12 Megapixel
Video Recording	1080P @ 30fps
Storage	Micro SD Slot
Connectivity	HDMI Output, USB (for PC/Charging)
Power Source	Rechargeable Battery (1 x 12V included)
Light Source Type	LED
Material	Metal, Plastic
Product Dimensions	4.72 x 6.69 x 6.57 inches
Item Weight	2.35 pounds

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Veho website. You can typically find detailed warranty terms, FAQs, and contact information for customer service on the manufacturer's support pages.

Manufacturer: Veho