

MOYSUWE[®] DIGITAL MICROSCOPE

MODEL: MDM4



Instruction Manual

Please read this user manual carefully and keep it for future reference.
Should you encounter any problem, please contact us by the following e-mail.
Most technical questions can be answered through our knowledge base.

Customer service: support@moysuweus.com

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Read Me First

1. MOYSUWE MDM4 Digital Microscope utilizes 18650 rechargeable lithium battery. It takes 1-2 hours to charge with 5V 2A adapter. Battery on the back of the monitor is replaceable.
2. The product contains tiny parts and is inedible, please avoid accidental ingestion by children. Also, this product is not intended for cell and medical use.
3. The images and videos will be saved on the micro SD card by default. With the microscope connected to a PC, the files will be saved on the computer hard drive.
4. The wired remote and buttons on the microscope are unavailable under PC-Microscope mode, you can save pictures and videos by your PC.
5. MOYSUWE offers one year manufacture warranty and life-long technical support for MDM4 digital microscope. Please feel free to get in touch with us if you need any help about the unit. It is recommended to attach microscope photos or videos showing the problems in the e-mail/message for quick solutions. MOYSUWE customer service usually responds in 12 hours on working days.
E-mail: support@moysuweus.com

Parts Description



(Pic 1. Buttons Description)



(Pic 2. Parts Description)

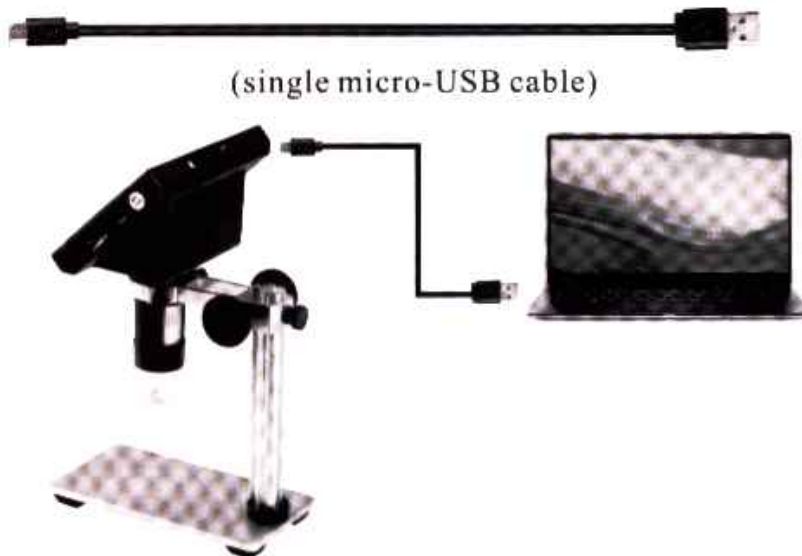
Installation



(Pic 3. Installation)

1. Screw the black nut into the aluminum rack
2. The center circle of the stand is facing the center of the base
3. The thread of the aluminum rack is aligned with the base, and rotate it clockwise for 4-5 times
4. Tighten the black nut down again to fix the stand
5. put the microscope on the holder and then fix the thumb screws

Connect The Microscope To Computer



1. Connect the microscope to the computer with the single micro-USB cable.

Quick Start

1. Install the microscope.(See Pic 1.)
2. Press the power button till the display lights up.
3. Raise or lower the holder, put the object on the base then rotate the focusing knob till the display shows clear view.
4. Press “Menu” for 3 seconds to switch modes between photo taking, video recording and replay.
4. Press “OK” button to take pictures under photo mode or record videos under video mode. Photos and videos will be saved on the micro SD card.
5. Hook up the microscope to your PC via the USB cable for larger view. Run “Windows Camera” on Windows computer. Images and videos will be save on your computer hard drive.

Adjust The Magnification And Focus

- ① Rotate the knobs on the holder to raise or lower the microscope to a desired height. The lower the height, the greater the magnification will be. Do not to let the the lens bottom contact the object.
- ② Gently rotate the focus knob to obtain a clear view of the object.
- ③ Raise the holder to the top. Scroll the focus wheel till you see the most clear view on the screen. The view you see now is close to 50X magnification. Lower the holder to the middle of the stand. Scroll the focus wheel till you see the most clear view on the screen. The view you see now is close to 1000X magnification.

Save Images/Videos With Micro SD Card

By using a Micro SD card, you can save images and videos to review later.

Insert the Micro SD card into the SD card slot on the right side of the screen. (Be careful with the direction. The side which has metal exposed should face down.) Push it in till you hear a “click”. (If you don't push it in far enough, it will be ejected.)

Switch Different Modes

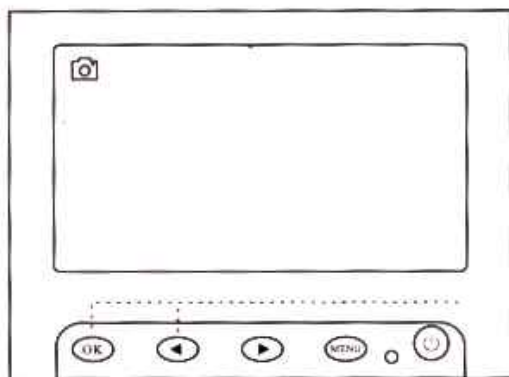
The Menu button can be used to cycle between three modes: Photo mode (📷), video standby (🎥) and playback (▶). Press the menu button for 3 seconds to switch modes.

In photo mode, the display shows 'time' on the lower left corner. The 'time' can be reset.

In video standby mode, the display shows 'time' on the lower left corner.

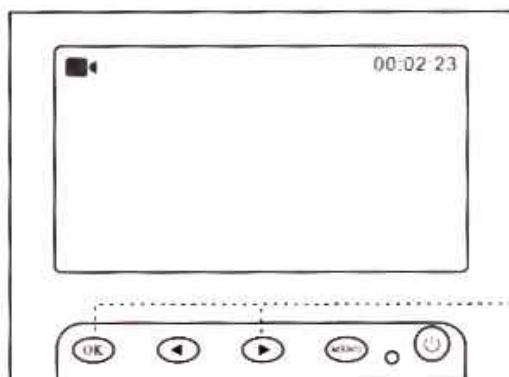
In playback mode, you can check the images and videos saved on the SD card. This function is unavailable with no SD card inserted in the microscope.

Capture Pictures



Under photo mode (📷), Press the "OK" button to snap image. Images will be saved in the SD card and you can check it under playback mode.

Record Videos



Press the "M" button to switch the mode. Under the video mode (🎥), press "OK" button to start recording. To stop recording, briefly press "OK" again. Videos will be saved in the SD card and you can check it under playback mode.

Menu Under Photo Mode

Long press the “M” button to switch into photo mode, briefly press the “M” button to enter the menu.

Image quality: VGA, 1.3M, 2M and 3M are available.

Format: Format the microscope.

Language: Choose different languages.

Line Assist: Turn on/off to have cross line on the screen.

Auto Off: Select the time to automatically turn off the device.

System Reset: Reset the system.

Light Frequency: 50Hz and 60Hz are available to choose.

Date Input: Set the time.

USB: Switch the microscope mode among PC Camera, Disk and Charging Mode.

Version: View the current software version

Menu Under Video Mode

Long press “M” button to switch into video mode, brief press “M” button to enter the menu.

Size: Choose the video resolution. 720P or VGA.

Time Stamp: When this option is enabled, the camera and video have time stamps.

Exposure Compensation: Exposure adjustment.

Format: Format the microscope.

Language: Choose different languages.

Line Assist: Turn on/off to have cross line on the screen.

Auto Off: Select the time to automatically turn off the device.

System Reset: Reset the system.

Light Frequency: 50Hz and 60Hz are available to choose.

Date Input: Set the time.

USB: Switch the microscope mode among PC Camera, Disk and Charging Mode.

Version: View the current software version.

Works With Windows

Run “Windows Camera”

- ① Installation Steps(Take Windows 10 for example)
Make sure your PC installed “Windows Camera”. If doesn't, get it in Windows /Microsoft Store or search it on Google.
- ② Connect the digital microscope to the PC with the USB cable.
- ③ The microscope shows “Mass Storage”, “PC Camera” and Charging mode”, choose “PC Camera” and confirm.
- ④ Start “Windows Camera” and your PC detects the microscope and shows the real time display. If doesn't, an error occurs. Unplug and plug the USB cable again.

Specifications

Project	Parameter
Name	MDM4
The biggest pixel	720P
Lens Optical Size	1/6.5"
Photo Resolution	VGA; 1.3M; 2M; 3M
Video Resolution	VGA; 720P
Video Format	JPG/AVI
Focusing Mode	Manual Operation
Picture Format	JPG/BMP
Magnification	500/1000
Light Source	8 LED lights
Focusing Range	10~40mm
PC Resolution Image Transfer Rate	640*480/26fps 1280*720/26fps
White Balance	Automatic
Exposure	Automatic
PC Operating System	Windows XP, Windows 7, Windows 8.1, Windows 10 or higher
Support Language	12 languages
Lens Structure	2G+IR
Aperture	F4.5

FAQ

1. Why can't I get clear pictures?

Make sure that the LED lights work properly. Adjust the light to illuminate the object, adjust the object distance by using the knob on the holder, and then rotate the focus controller. If you still cannot obtain a clear image, gently wipe the lens with a clean, dry cotton cloth or paper towel to ensure that the lens is clean.

2. What is the USB slot on the base of the unit?

The slot is to hold the USB drive.

3. Does other micro USB charger work with the microscope?

Yes, other micro USB cable works with the scope, too. However, if you need to connect it with computer, it must be micro USB 3.0 cable.

4. Does it support and SD card larger than 32GB?

No, it supports 32GB at most.

5. Can you run this microscope off USB power if the battery is dead?

Yes, this microscope works normally without battery if plugged. And all batteries have certain life. This microscope uses replaceable 18650 lithium battery, which has more than 4 years life.

6. Why does the LED light/Display not work?

NOTE: The LED light/Display of the base are powered by the battery behind the display.

1. First, please confirm whether the product battery is well installed (open the battery cover on the back of the display)
2. It can be charged for 2 to 4 hours before the first use, and the green light on the display will be fully charged
3. Long press the switch button to turn on the display
4. Turn the button on the side of the display to adjust the brightness of the lens
5. If you still can't open it, please contact us immediately, we will deliver a new one or refund to you, you can contact us via (Amazon order email or our email)

NOTES:

1. It should be noted that this is not a professional optical microscope, so you cannot view microorganisms such as cells
2. Not suitable for full-size photo coins. You cannot view the entire coin, but you can clearly view the texture of 1/4 of the coin
3. The display cannot work when charging, so you can charge the display when you are not using the product
4. The magnification depends on the distance between the object and the lens, but the lens cannot be completely close to the object, so as not to cause inability to focus
5. The remote control cannot zoom
6. The product is unusable or has any quality problems, please feel free to contact us by email, we will reissue or refund to you, thank you for your trust

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✉ support@moysuweus.com