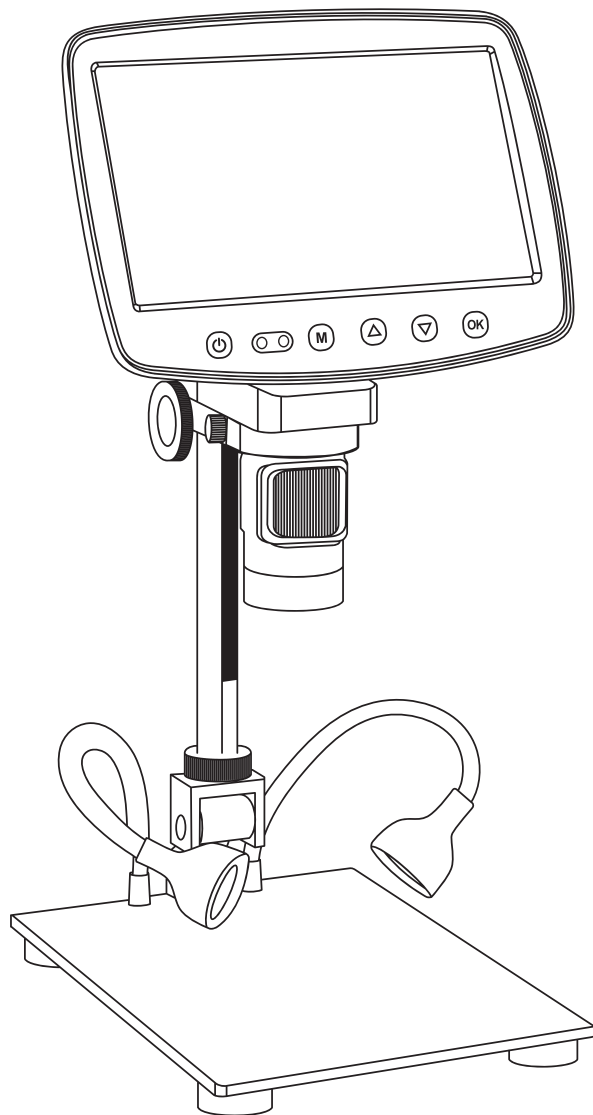




7 Inch Digital Microscope

Model:MS1



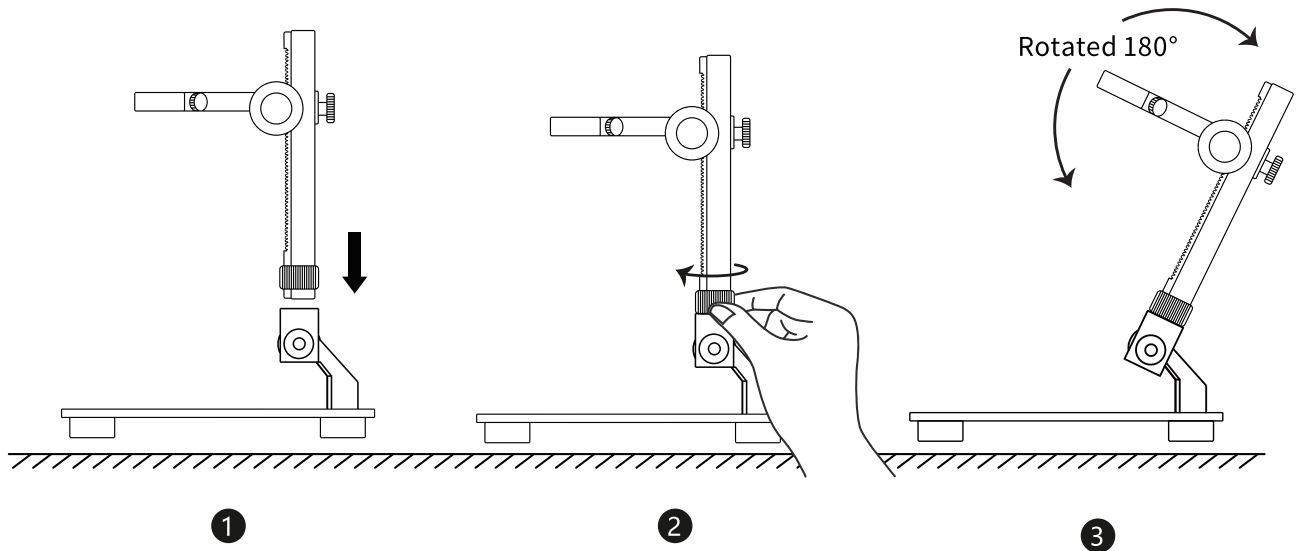
User Manual V3.0

Contents

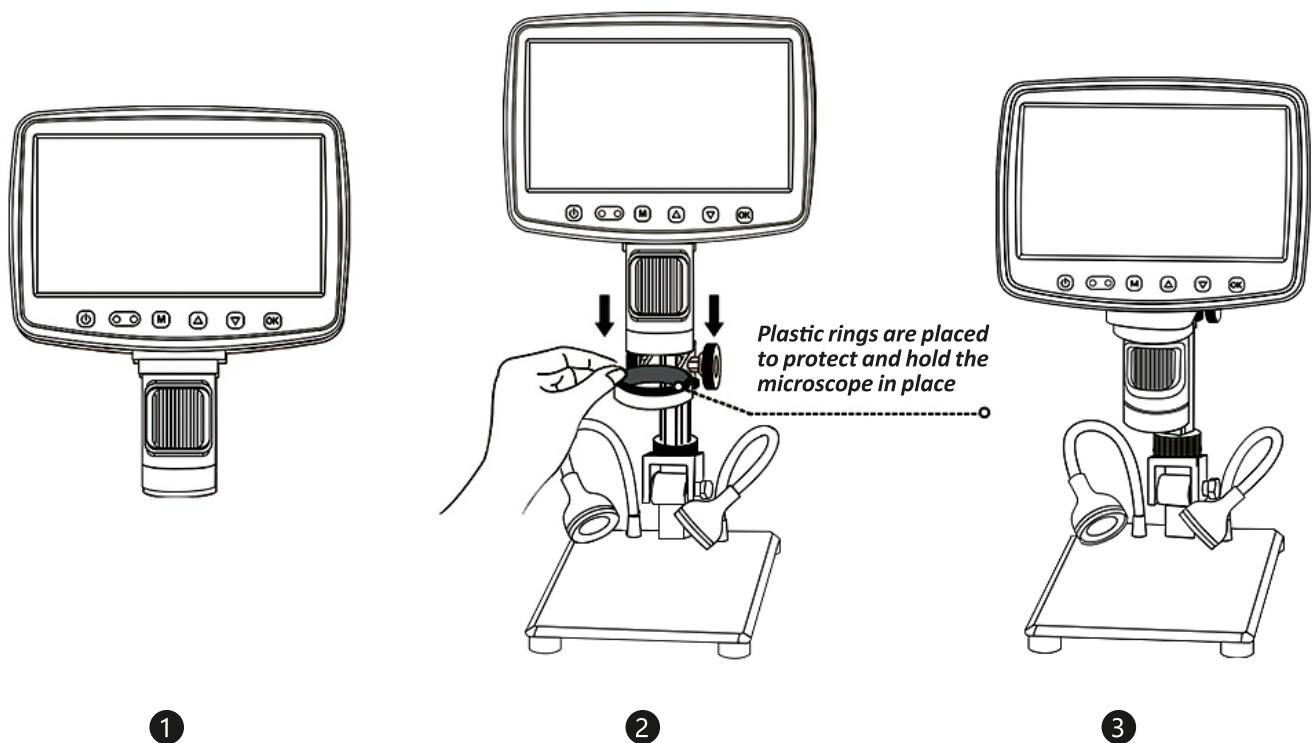
1. Installation	03
Bracket installation	03
Microscope installation	03
Turn on auxiliary lights	04
2. Parts and Functions	05
Functions introduction	06
3. Function Introduction of Remote Control	07
Remote control buttons	07
Remote control buttons description	07
4. Interface Introduction	08
Playback mode	08
Menu interface	09
Function introduction	10
5. Work with PC	11
Software download	11
Operating steps	12
Function select	13
Function introduction	13
6. Working with TV	14
Operating steps	14
7. Specifications	15
8. Warning	16
9. FAQ	17

1. Installation

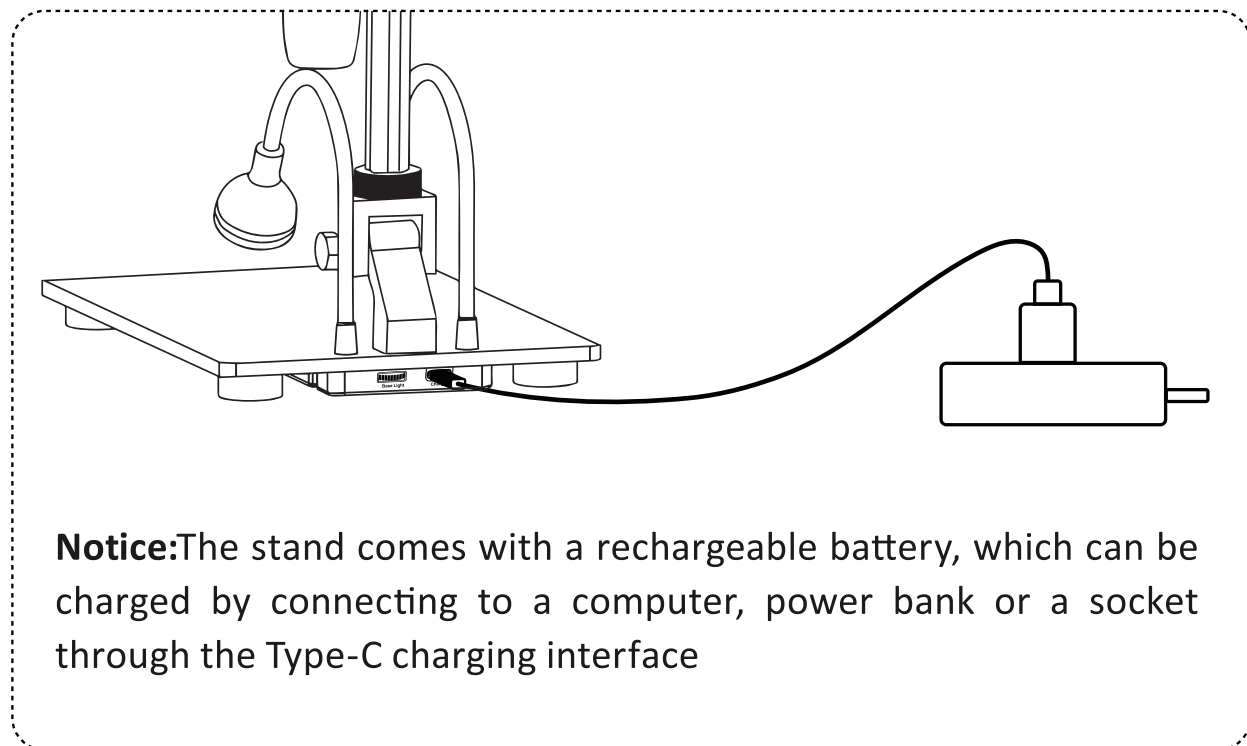
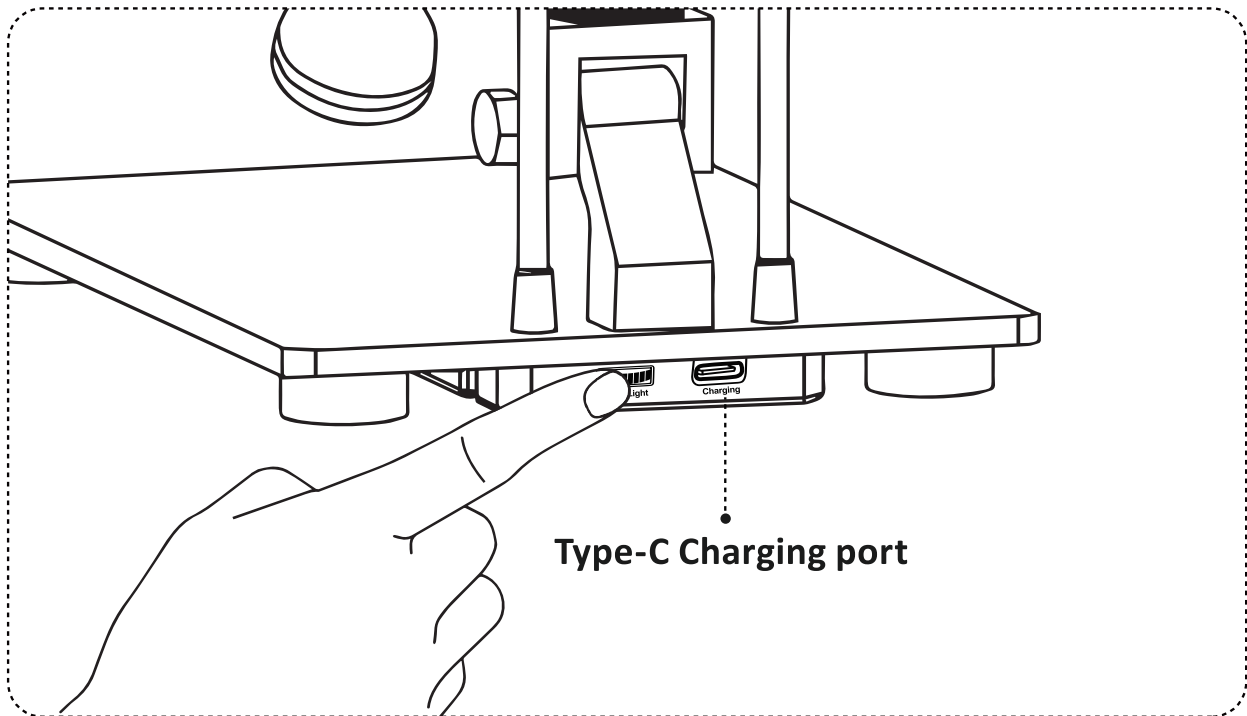
• Bracket installation



• Microscope installation

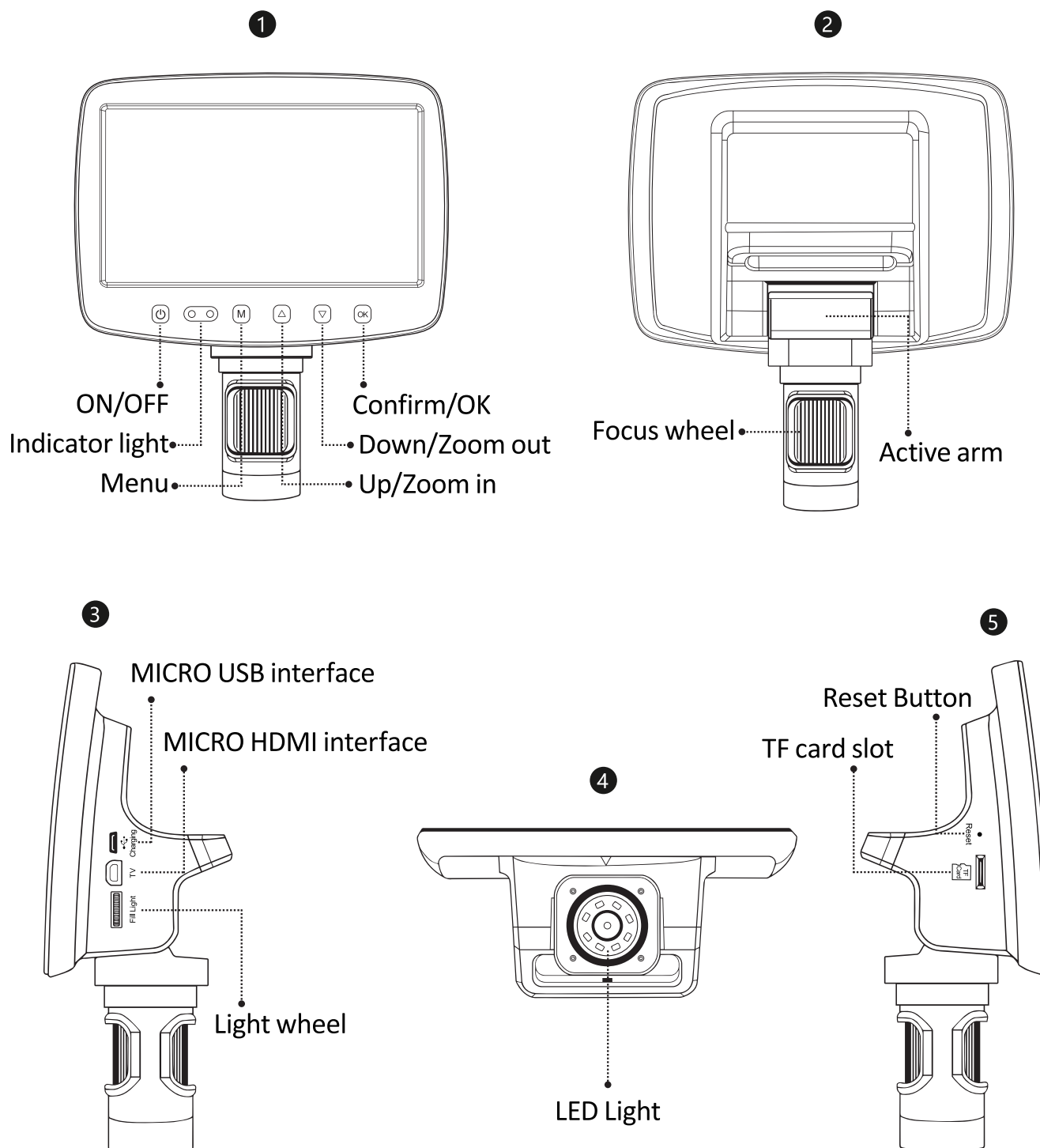


- Turn on auxiliary lights



2. Parts and Functions

⚠ Notice: The picture is for reference only, please refer to the actual object



• Functions introduction

ON/OFF button: Long press to turn on / off the device . When the machine is powered on , short press to dim the display, press any key to wake up the screen.

Indicator light: In charging condition , the indicator light is red ; In working condition the indicator light is blue.

Up/Down button: When entering the **Menu** or reads a saved file , use this button to switch between different options . In Photo or Video mode , press this button to digital zoom in / out.

Menu button: When the device is powered on , press the " **M** " button to enter or exit the menu , when entering the **Menu** mode , short press " **M** " button to return to previous interface ; and long press to switch to three modes : Photo / Video / Playback.

OK button: In Photo mode, press this key to take photos; In Video mode, press this key to start/end video; In Playback mode when playing video files, press this key to play/pause; When entering Menu options, press this key to confirm the selection.

Micro USB interface: Support DC5V charging and USB data transfer . (**Note** : When the USB data cable is removed , the device will automatically shut down which is a normal phenomenon . If you need to continue using the device , restart it)

Reset Button: When the device is abnormal, poke this hole with a fine pointed object to force shutdown.

TF card slot: Supports a maximum of 32GB (Please select C10).

Micro HDMI interface: High Definition Multimedia Interface.

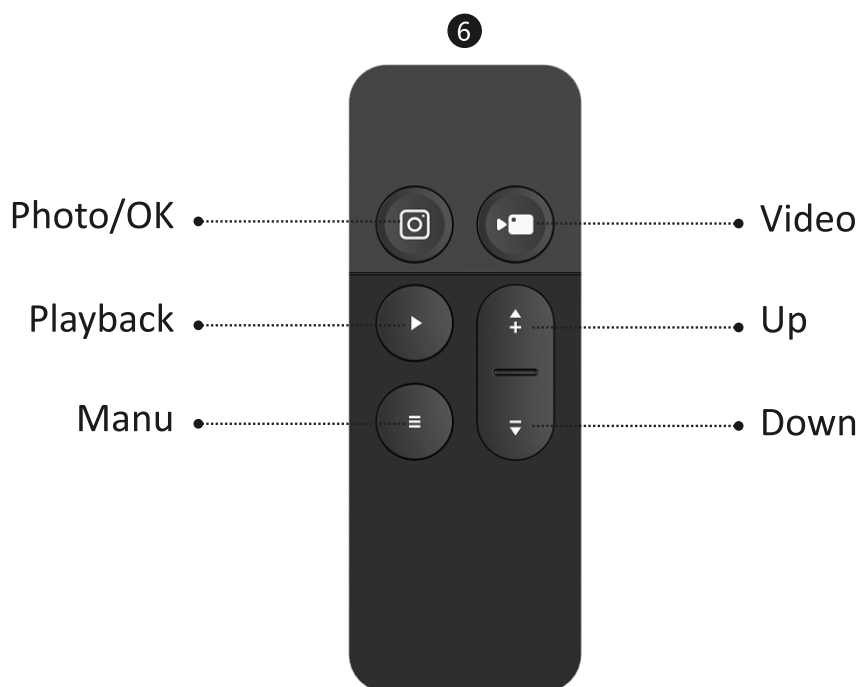
Light wheel: Turn the knob to adjust the brightness of LED light.

Focus wheel: Rotate this wheel to focus in photo or video mode.

Active arm: Adjustable angle of display screen.

3. Function Introduction of Remote Control

- Remote control buttons



- Remote control buttons description

Photo/OK: In photo mode, press this key to take photos; In Playback mode when playing video files, press this key to play/pause; Enter Menu options, press this key to confirm the selection; In Video mode, press this key to switch to photo mode.

Video: In Video mode, press this key for video start/end; In Photo mode, press this key to switch to video mode.

Playback: In the power on state, short press this key to enter the Playback mode, short press again to exit the Playback mode.

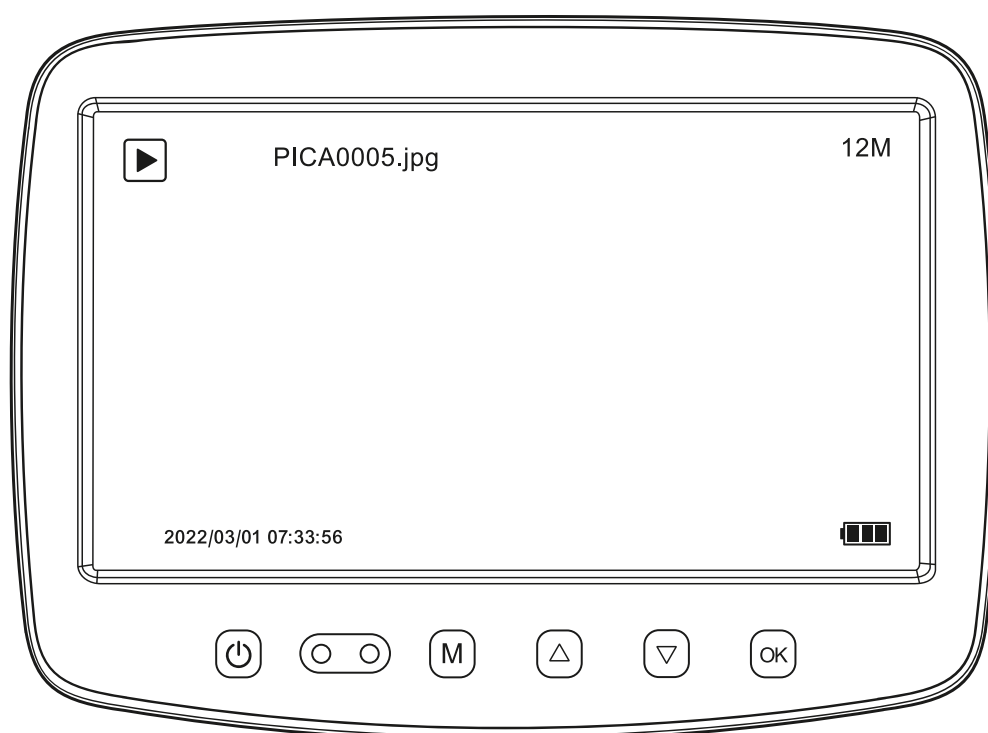
Menu: Short press this key to enter the Menu settings, short press again to return to the previous level or exit the Menu.

Up/Down: When entering the Menu option interface, it is the up/down selection key; When entering the Photo and Video mode, it is the zoom in/out key.

4. Interface Introduction

⚠ *Notice: If you need to take pictures or videos, please insert the TF card first.*

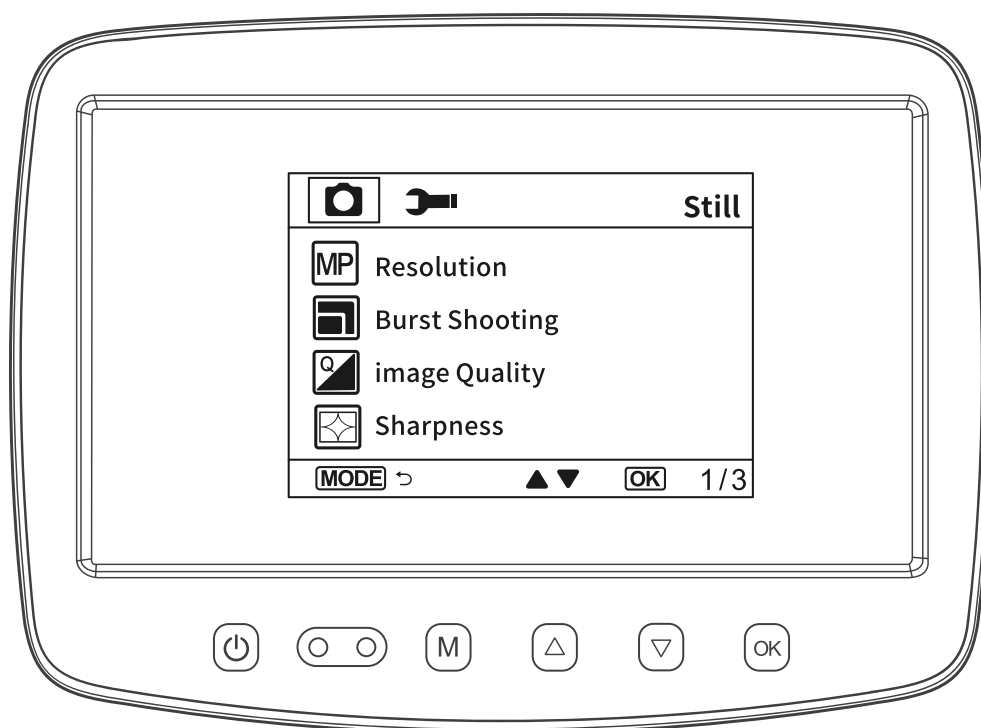
- **Playback mode**



In Photo mode, enter Menu setting to modify photo parameters and general settings; In Video mode, enter Menu setting to modify video parameters and general settings; In Playback mode, enter Menu setting to delete/protect files in the current TF card.

- **Menu interface**

Press **Menu** to enter the menu interface, as shown in the fig.



Enter the setting interface in the **Photo** mode, you can modify pictures' parameters and general settings; Similarly, if you want to modify the video parameters, please enter the setting interface in the **Video** mode. After setting, short press the **Menu** button to exit the setting interface.

• Menu interface description

Video Resolution: 1920* 1080, 1280 *720.

Photo Resolution: 12M,10M, 8M, 5M, 3M, 2MHD, 1.3M, VGA.

Exposure Compensation: There are 13 exposure compensation values from +2.0 to -2.0.

Date Tag: After selecting the date or date/ time, photos and videos will have the date or date and time label.

Date/Time: Sets the date and format/ time parameters.

Automatic Shut-down: After setting the automatic shutdown time, the device can automatically shut down when no one operates.

Screen Protection: Select the appropriate time, so that the device will automatically extinguish the screen when no one operates.

Language Settings: Set the device language.

Light Source Frequency: Mains frequency setting.

Line Assist: Display and hide the "+" line in the photo and video interface.

Burst Shooting: When this option is enabled, you can take 5 photos in a row.

Image Quality: High quality, Standard, Economic.

Sharpness: Intensive, Standard, Soft.

ISO: Auto, 100, and 200.

Formatting: Formats the memory.

Default Setting: Restore factory settings.

Version: View the version of the current software.

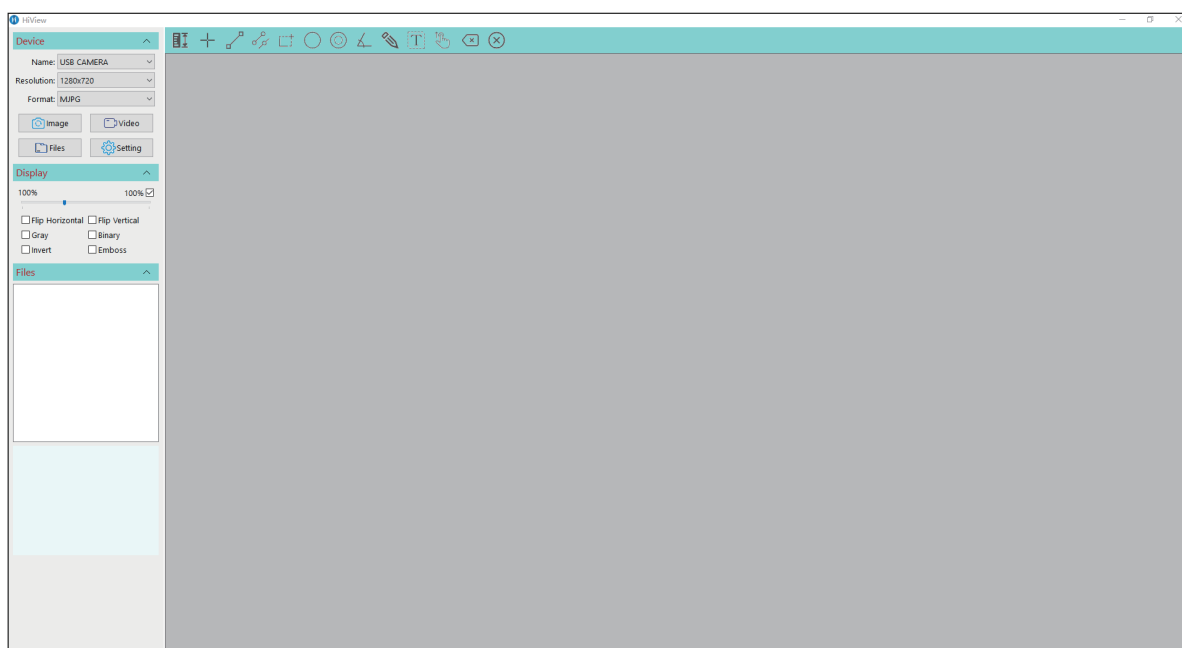
5. Work with PC

• Software download

Download the applicable software

① For Windows 8, Windows 10 or higher system, search "**hiView**" () in the Microsoft Store to download it.

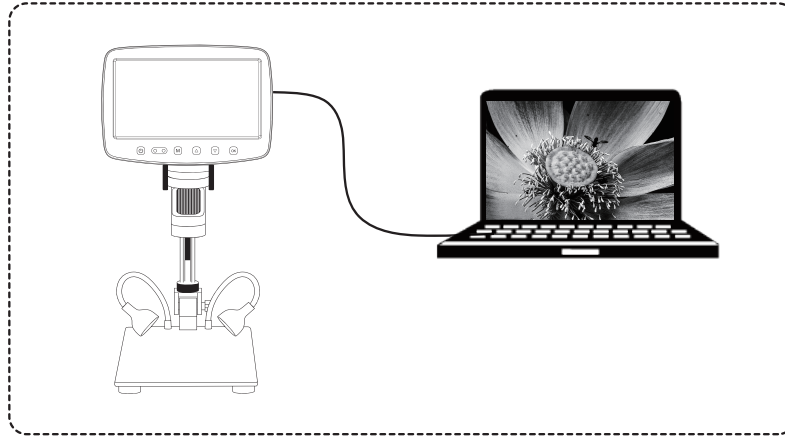
② For Windows 7 , download the software from the website:
<http://soft.hvscam.com>



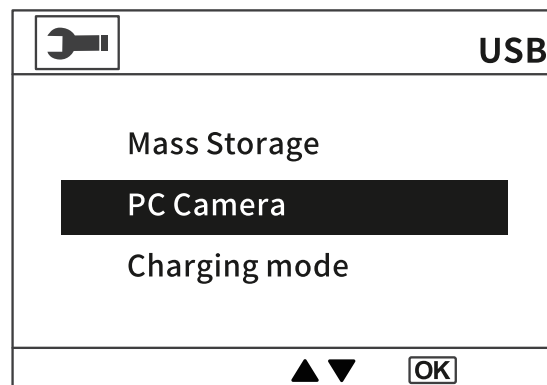
③ For Mac OS X 12 or higher system, search "**hiView**" in the APP Store to download it.

• Operating steps

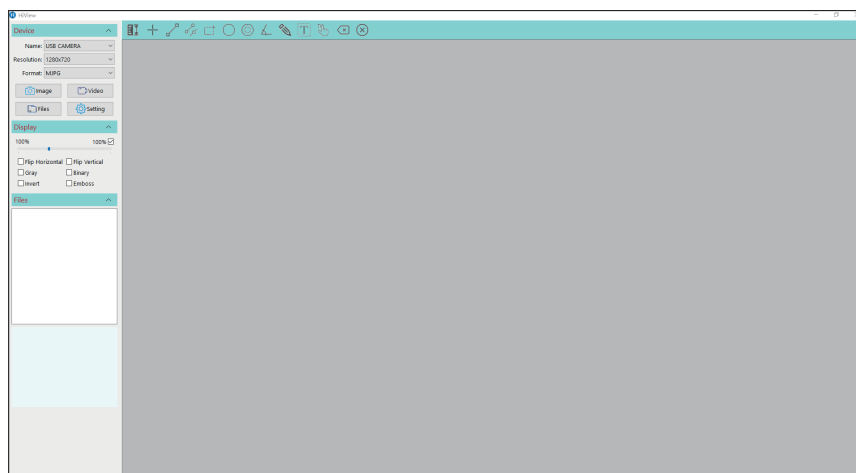
Step 1. Connect the microscope to the computer via a USB cable.



Step 2. Power on MS1, Select "PC Camera" on MS1.

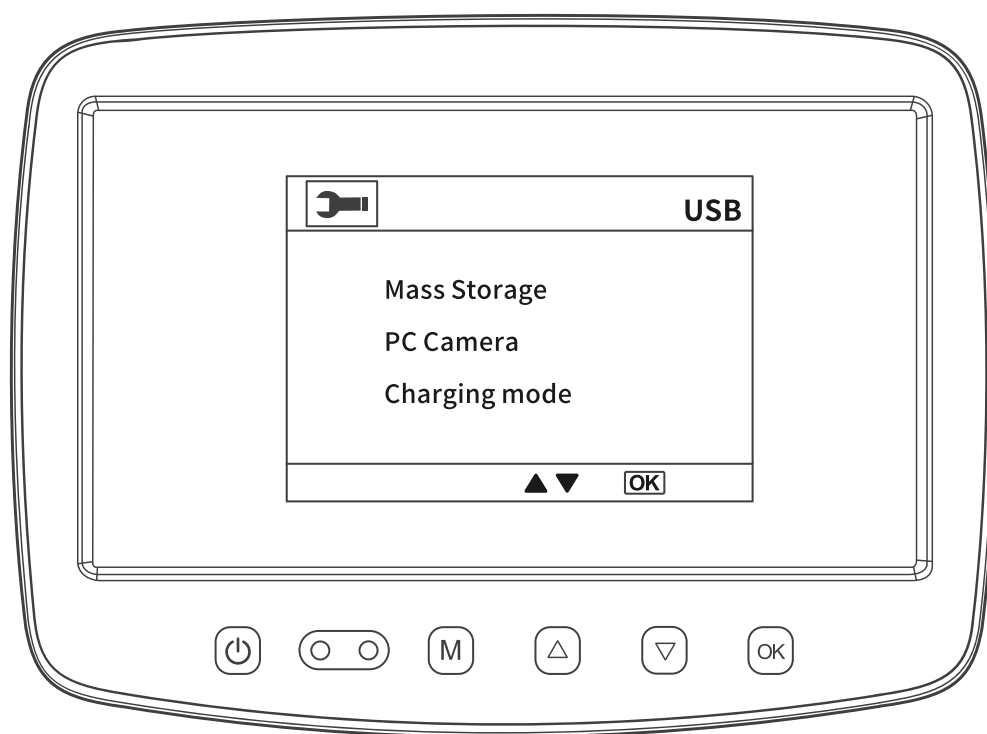


Step 3. Run **hiView**, then you can click Photo or Video on your computer to take photos and videos, which will be saved on your computer disk.



• Function select

When the device is connected to the computer through a USB cable, the device can be used in **Mass Storage / PC Camera / Charging mode**.



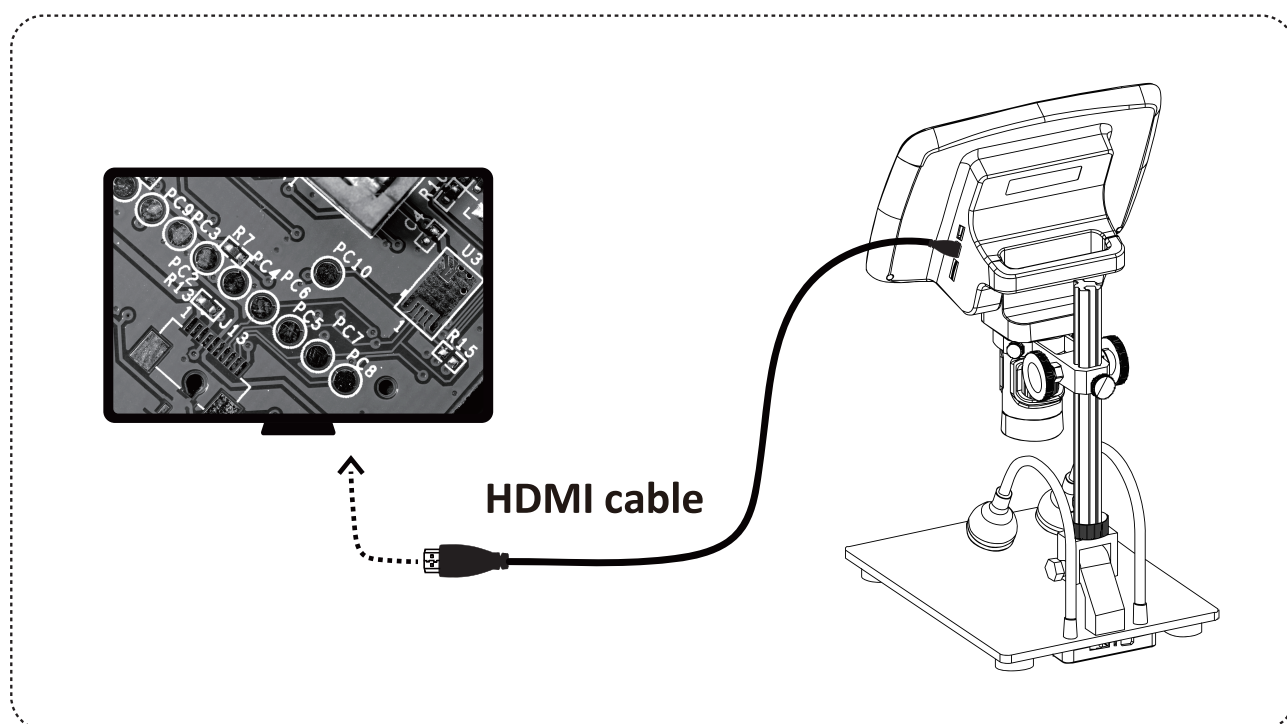
• Function introduction

- ① **Mass Storage:** Enter the device memory on the PC, and you can view and process the photos and video files inside. At this time, only **ON/OFF** and **Light Wheel** on MS1 are available.
- ② **PC Camera:** only **ON/OFF** and **Light Wheel** on MS1 are available at this time. Open the software **hiView** on the PC to display the image.
- ③ **Charging mode:** MS1 enters the charging state, and the equipment can be operated normally if necessary.

6. Work with TV

- **Operating steps**

Step 1. Connect MS1 to the TV via a HDMI cable



Step 2. Power on the MS1, then you'll see a image on TV, press the video and photo buttons on the remote control to take photos and videos, which will be saved in the memory card

7. Specifications

Item	Specifications
Product Name	MS1 Digital Microscope
Lens Optic Size	1 / 2.8"
Photo Resolution	12M, 10M, 8M, 5M, 3M, 2MHD, 1.3M, VGA
Video Resolution	1080FHD (1920*1080), 1080P (1280*720)
Video Format	AVI
Illuminant	8 LED lights (brightness adjustable)
Focusing Range	10~40mm (can watch distant view)
PC Resolution and Image Transfer Rate	1280*720 / 26fps
Lens Construction	5H+IR
Aperture	F4.5
Lens Angle	16°
Interface and Signal Transmission Mode	Micro / USB 2.0 / HDMI
Operating Temperature/ Operating Humidity	-20°C ~ +55°C / 30%~85%RH
Working Current	600mA
Power Dissipation	3W
PC Operating System	Windows 7, Windows 8.1, Windows 10, Mac OS x 12 or higher
Language	English, French, Spanish, Portuguese, Arabic, German, Italian, Simplified Chinese, Traditional Chinese, Russian, Japanese, Korean

8. Warning

- * The transmission speed of the TF card should be C10. If the transmission speed of the TF card is lower than C10, the failure of picture and video storage may occur during use;
- * Keep the microscope away from heat sources, open fires, flammable and explosive gases (liquids);
- * Keep the microscope away from water, beverages and corrosive liquids;
- * Please avoid dust entering the microscope lens and interior;
- * Please prevent the microscope from being hit or violently shaken;
- * Avoid storing the microscope where there is a risk of falling, which may cause internal lens deviation or damage to other parts of the microscope, as well as other irreparable damage.

9. FAQ

Q: Could you let me how to charge it?

A: There is a USB cable that comes with the package. You can plug it in any normal phone charger adapter or connect it to your laptop or PC, and the charging time is about 3 hours.

Q: Can I see the whole coin?

A: Yes, of course, not only has the ability to connect to HDMI devices been upgraded, but the height of the stand has also been upgraded so that you can see the entire coin.

Q: Can the microscope be connected to cell phone?

A: No, this microscope is not compatible with cell phone.

Q: Can it connect to a computer for bigger view?

A: Yes, it supports not only connecting to your computer, but also to your TV.

Q: Can I see plant cells by this microscope?

A: Sorry, this is a digital microscope, not an optical microscope. You can't see the cells.

Q: How do I turn the bracket light on?

A: The light of MS1 stand has a separate function. At the rear of the base, there is a wheel for adjusting the light. The light of the stand can be switched on and off by adjusting it here.

Q: Do the lights on the stand need to be charged separately?

A: Yes, the lights on the stand need to be charged separately, the stand comes with a rechargeable battery, which can be charged by connecting to a computer, power bank or a socket through the Type-C charging interface.

Q: Do I have to download software on my computer to see the images?

A: Not necessary, if your laptop is windows10 or above, you can use the computer's default camera. If you're on a Mac, you can use your computer's default Photo Booth.