

Elikliv[®] Digital Microscope

MODEL: DM9



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@elikliv.com

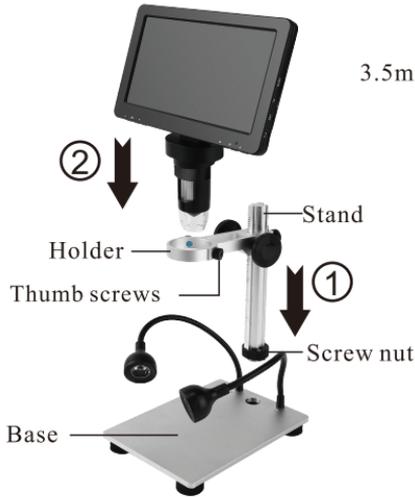
Contents

Read Me First	1
Installation	2
Button Description	3
Light Barrier	5
Quick Start	5
Adjust The Magnification And Focus	6
Save Images/Videos With Micro SD Card	6
Switch Different Modes	6
Capture Pictures	7
Record Videos	7
Menu Under Photo Mode	8
Menu Under Video Mode	8
Set Up	8
Works With Windows	9
Works With Mac/iMac	9
Specifications	10
FAQ	11

Read Me First

1. Elikliv 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 which are 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. Elikliv offers one year manufacture warranty and life-long technical support for DM9 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. Elikliv customer service usually responds in 12 hours on working days.
E-mail: support@elikliv.com

Installation



(Pic 1. Microscope Installation)



(Pic 2. Wired Remote Connection)

Picture 1: Microscope Installation

1. Screw the stand on the base.
2. Fix the stand by screwing the black ring nut.
3. Put the microscope on the holder and then fix the thumb screws.

Picture 2: Wired Remote Connection

1. Insert the 3.5mm plug into the “key” slot.
2. Connect the micro USB cable to the interface at the back of the base.
3. The two goose lights are controlled by the controller on the left of the interface.

How to charge the microscope?

Insert the USB cable into the micro USB interface on the right side of the monitor, use 5V 2A or 5V 1A adapter to charge it. It also can be charged when connected to PC.

Buttons Description



Microscope Buttons

- ① 7 Inch LCD Display
- ② Focusing Wheel: Rotate the wheel to zoom in and out and focus.
- ③ Indicator Light: Charging(Red) Full Charged(Green) Device Working (Blue Light Flashing)
- ④ Up: Move your selection.
- ⑤ OK Button: Confirm the selection.
- ⑥ Down: Move your selection.
- ⑦ Take Pictures
- ⑧ Menu: Enter/Exit the menu. Press “Menu” for 3 seconds to switch modes between photo taking, recording and replay.
- ⑨ Power: Press it for 3 seconds to turn on/off the device.
- ⑩ LED Supplement Lights
- ⑪ Micro USB port: Charge the scope with 5V 2A adapter. Connect it to computer for PC view.
- ⑫ SD Card Slot: Supports 8GB - 32GB memory card(c10).
- ⑬ Key Slot: Insert the 3.5mm plug to use wired remote.
- ⑭ Supplement Lights Control: Rotate to adjust the LED supplement lights.
- ⑮ Battery Cover: Can be opened to replace the battery or restart the microscope.

Wired Remote Buttons

1. Up: Move your selection.
2. Menu: Enter/Exit the menu. Press “Menu” for 3 seconds to switch modes between photo taking, recording and replay.
3. OK Button: Confirm the selection. Take pictures.
4. Switch Button: Switch the modes between photo taking and video recording.
5. Down: Move your selection.
6. Start/End recording video: Videos will be automatically saved.

Light Barrier

The main function of this light barrier is to reduce the reflection light when doing micro soldering.

Take off the transparent lens protector and screw the light barrier on the lens.



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 wheel till the display shows clear view.
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 or “Photo Booth” on iMac/MacBook. Images and videos will be save on your computer hard drive.
6. Connect the wired remote(See Pic 2.) to take pictures and control the menu without touching the microscope panel.
7. The two extra goose lights can be adjusted by the wheel on the back of the base after the wired remote connected to the scope.

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. But be careful not to let the the lens bottom contact the object.
- ② Gently rotate the focus controller 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 1200X 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 (number ⑧ from the picture “Buttons”, marked with letter “M”) can be used to cycle between three modes: Photo mode (📷), video standby (🎥) and playback (🎞).

In photo mode, the display shows ‘time’ on the lower left corner & ‘8M’ (white color font) on the top right corner. The ‘time’ can be reset.

In video standby mode, the display shows ‘time’ on the lower left corner & ‘720P’ (white color font) on the top right corner. The ‘720P’ means the current video resolution is 720P in this mode.

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

Resolution: Image quality. 3MB, 5MB, 8MB, 10MB and 12MB are available

Burst Shooting: Press “OK” to turn on/off the burst shooting.

Image Quality: High quality, standard and economic quality are available.

Better quality image will take more storage space.

Sharpness: Press “OK” to choose intensive, standard or soft mode.

ISO: Press “OK” to choose auto, 100 or 200.

Exposure Compensation: Press “OK” to choose.

Date Tag: Press “OK” to turn on/off the time watermark.

Menu Under Video Mode

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

Resolution: Press “OK” to choose the video quality, 1080FHD, 1080P or 720P.

Exposure Compensation: Press “OK” to choose then exit.

Date Tag: Press “OK” to turn on/off the time watermark.

Set Up

Press “M” button to enter the menu, press again to enter “set up”

Date/Time: Set a date or time.

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

Screen Protection: Select the time to protect the screen in spare time.

Language Settings: Select different languages for display.

Light Source Frequency: 50Hz or 60Hz available to choose.

Line-assist: Display and hide the “cross” line in the photo and video.

Format: Format the memory.

Default Setting: All settings will be changed to default ones.

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.

Works With Mac/iMac

Run “Photo Booth”

① Make sure your MacBook has “Photo Booth”. If doesn’t, please install it from App Store.

② Connect the digital microscope to the computer with the USB cable (You may need an USB hub).

③ The microscope shows “Mass Storage”, “PC Camera” and Charging mode”, choose “PC Camera” and confirm.

④ Start “Photo Booth”(Finder > Application > Photo Booth) and choose “GENERAL - UVC #2(Default)” on the menu bar.

Specifications

	Parameter
Model	DM9
The biggest pixel	1080FHD/12MP
Lens Optical Size	1/4"
Photo Resolution	12M, 10M, 8M, 5M, 3M
Video Resolution	1080FHD, 1080P, 720P
Video Format	AVI
Focusing Mode	Manual Operation
Picture Format	JPG
Magnification	500/1000
Light Source	8 LED lights and 2 goose 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.

This user's manual has been subjected to thorough reviews and verification to ensure accuracy of its content and contains information that's pertinent to the model and series it describes at the time of publication. However, content of this manual and/or product specifications are subject to change without prior notice and with no direct or indirect liability on Elikliv Electronics' part concerning such change. Copyright and registered trademark Elikliv,

✉ support@elikliv.com