

## AmScope DM140

Portable Digital Microscope



**AmScope™**

#1 MICROSCOPE & ACCESSORY SUPPLIER

user manual

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## INTRODUCTION

Thank you for purchasing the **AmScope DM140 Portable Digital Microscope**.

Please read this manual carefully before using this product to ensure correct and safe use

- The content of this manual is subject to change without notice
- The appearance of the product can differ from the models described in this manual
- Some optional components described in this manual may not be included in your purchase

This manual will provide information pertaining to the setup, operation, and maintenance of the DM140 portable digital microscopes. Please familiarize yourself with the necessary precautions and procedures prior to operating this instrument. Certain features and specifications are subject to change.



## Preface

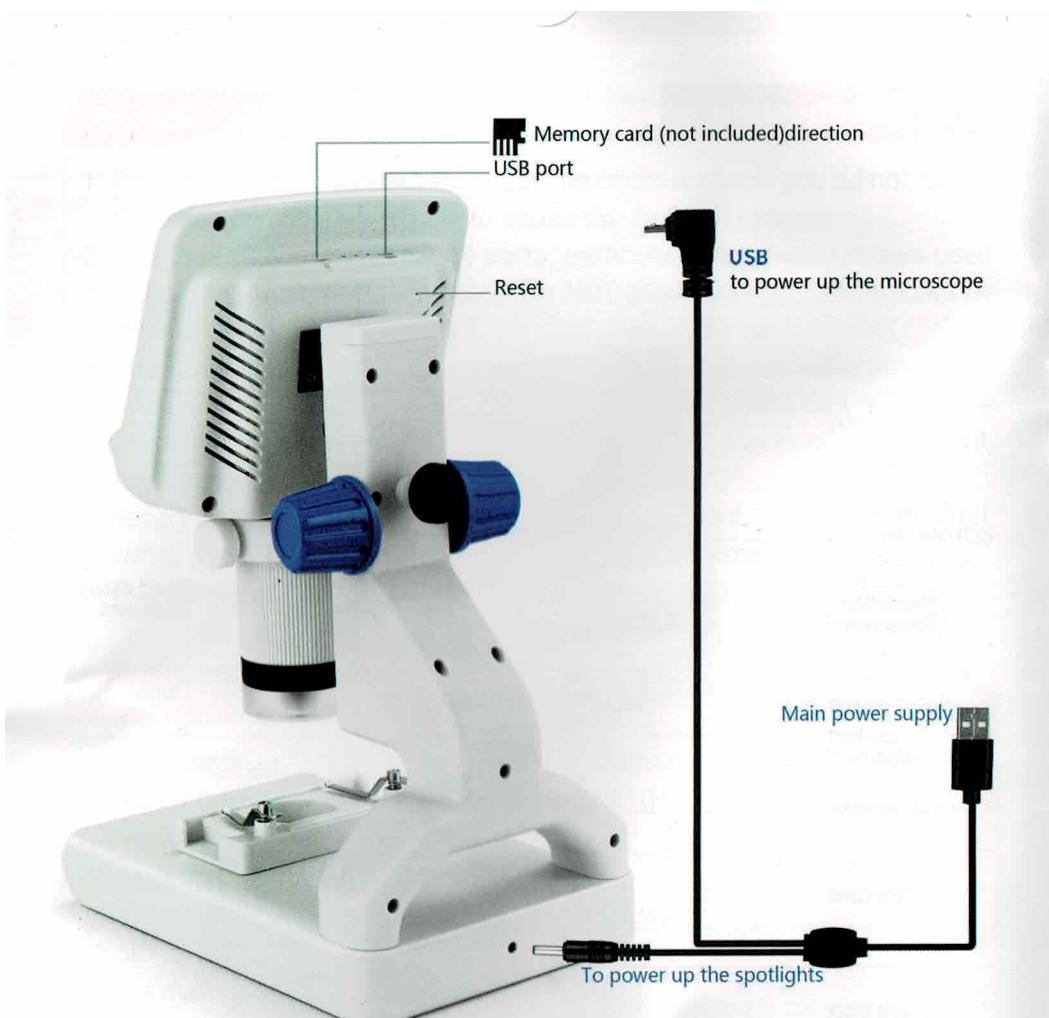
1. Please read this manual before use the microscope. If you do not follow the instructions, it's possible to cause the device damaged.
2. The assembly includes small parts, particularly the thumbscrews used to hold the main device in place. Do NOT allow unsupervised access by infants or toddlers.
3. The microscope is not intended for field use. It is not waterproof, and should not be exposed to extreme temperatures. Users can refer to the preservation management methods of general electronic equipment, such as laptops.
4. Keep the microscope in a clean and dry environment. Keep away from oil, water, gas and other materials that may cause corrosion.
5. This device is not intended to medical use.

## Basic Parameters

Image sensor	High Quality HD Sensor	
Video output	1080P (FHD); 720P (HD)	
Video format	AVI	
Magnification Ratio	Up to 220 times	
Photo resolution	1280*720P - 4032*3024P	
Photo format	JPG	
Focus distance	1.2cm to 10.5cm	
Frame Rate	Max 30f/s under 600Lus Brightness	
Video-output interface	USB 2.0	
Storage	Micro-SD card, up to 32G	
PC support	Yes,for Windows XP/7/8/10	
Power source	USB 5V DC	
Light source	8 built-in LED & bottom light	
Stand size	18cm*12cm*11.5cm	
Screen size	4.3inch; LCD	
Screen resolution	480*272	
Package Included	microscope - 1 instructions - 1 IR remote - 1 Movable block - 1	plastic stand - 1 USB cable - 1 Switch cable - 1
Packing data	25.7*21.5*17cm/1kg	

## Product Structure





(Figure 2 connect)

### Before Use

1. The microscope has been installed before ship. To ensure usage effect, appropriately adjust the microscope, plastic bracket and the movable block taken from the box.
2. To ensure the image effect, please remove the protective film from the display.
3. Remove the small transparent cover marked with 'Q.C.passed' from the bottom of the lens cover, otherwise can't get the clear image.

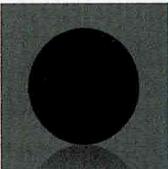
## Quick Start

1. Connect the microscope to the power supply via the switch cable.
2. Then press and hold the Power button (① from the Figure 1) underneath the display until the display turns on. (It may turn on automatically, and it's normal phenomenon.)

### \*Troubleshooting

If the display freezes, locate the "reset" hole(as Figure 2 shows) on the back of the monitor. Use a narrow object such as an unfolded paperclip to depress the button located inside. This resets all settings to their factory values and restarts the display . It does not erase saved images or video.

## Instructions for using the movable block and the light barriers

	<b>Movable block:</b> When using the microscope slides to observe objects, it can fix the slides. <i>(Note: When observing the slides, try to use 3 different light barriers and adjust the brightness of the built-in LED light to obtain the desired image effect.)</i>
	<b>Uniform light plate:</b> When observing the microscope slides, it can make the bottom illumination more uniform and the image more clear.
	<b>Black backlight:</b> When you need to observe the details of small objects, it can make the sensor increase the image gain and the details clearer.
	<b>White backlight:</b> When a white background image is needed, it can be used.

## **Adjusting the Magnification and Focus**

Use the distance adjustment on the optical bracket to raise or lower the microscope to the desired height.

The lower the height, the greater the magnification, but be careful not to let the bottom of the lens touch the object being observed.

Turn the focus controller (7 from the Figure 1) to focus the image.

To increase the digital magnification, press and hold the Up button (3 from the Figure 1, '+' button on the remote has the same function) until the desired digital magnification(up to an additional 5x beyond the optical magnification) is reached. Use the Down (4 from the Figure 1, '-'button on the remote has the same function) button to decrease the digital magnification.

## **Displaying on a PC**

Before you connect the microscope to a PC, make sure that you have appropriate software on that PC.

Here is the link to download the software:

Windows XP/7/8:<https://bit.ly/2LrdjaO>

Windows 10: <https://bit.ly/3fJTgIQ>

To display images on a PC, attach one end of the USB cable provided to the USB port on the top of the monitor and another to the PC. Select "PC camera" on the monitor.

Open your webcam software to view and save images.

## Using a Micro-SD Card to Save Images

By using a Micro-SD card (not provided, please buy it separately), you can save images and videos to review later or output to a computer or other device.

Insert the Micro SD card in to the TF slot on top back of the monitor. Push it in until you hear a click. (If you don't push it in far enough, it will be ejected.) An icon  will appear at the top right side of the display.

The Mode button (2 from the Figure 1, marked with an 'M') can be used to cycle between three modes: video () , still image () , and review () .

In video mode, press the OK button (5 from the Figure 1,  key on the remote has the same function) briefly to begin recording (the icon becomes to ). The elapsed time in the recording will appear at the top right. To stop recording, hit the OK button again.

Note: do not keep the OK button while starting or stopping a recording, just press and release.

In still image mode, press the OK button (5 from the Figure 1) briefly to capture an image.  Icon would appear at the top middle for a second, when an image has been captured.

Press Capture button (6 from the Figure 1, icon  on the remote has the same function) to capture images while the microscope is recording.

If you capture the image by this way, the resolution of the image could be neither 1080P or 720P, depends on which you choose for the video resolution, FHD or HD.

## Reviewing and Managing Images

To review and manage images on the display, use the Mode button to select review mode. Use the Up and Down buttons to cycle through the pictures and videos.

To play a video, press the OK button. Press the OK button again to pause.

Hit the Mode button again to exit playback.

While reviewing a still image or video, the Menu button can be used to provide additional options. Press the Menu button and hold for a while till options show up.

Delete: deleting just the current image/video;

Delete All: deleting all unprotected images and videos;

Lock This: provides protection for the current image/video from deleting accidentally, but not from Format function;

Unlock This: unlock the current image/video.

## Settings

In video mode, press Menu button and hold it for a while until the Menu shows up on the display.

Resolution: There are two options of Resolution: HD(1280\*720) or FHD(1920\*1080).

Image quality: There are six options: 1M/2M/3M/5M/8M/12M, resolution of them goes from 1280\*720P to 4032\*3024P.

EV: Exposure compensation, from +2 to -2.

Language setting: English, Chinese, Japanese, Korean, Russian, French, Dutch etc.

**NOTE:** After setting, please turn off the microscope via power button, then turn on again. Only by this way, the setting can be saved.

Format: When the memory card is full, use this to format the card.

Remember to export all files that you need before formatting.

Reset system: Back to the factory values.

## Warranty

User's Name:	Address
Phone No:	Zip Code:
Email:	
Model Name:	Purchase Date:
Fault Feedback:	
Date:	Fault:

### NOTICE:

Every AmScope microscope is warranted by AmScope to be free of defects in materials and workmanship for **ONE YEAR** from the date of original purchase in the U.S.A. and Canada. This warranty applies to the original purchaser only and is non-transferable.

This warranty is not valid in cases where the product has been abused or mishandled, where unauthorized repairs have been attempted or performed, or where depreciation of the product is due to normal wear and tear. AmScope specifically disclaims special, indirect, or consequential damages or lost profit which may result from a breach of this warranty. Any implied warranties which cannot be disclaimed are hereby limited to a term of one year from the date of original retail purchase. This warranty gives you specific rights. You may have other rights which vary from state to state. AmScope reserves the right to change product specifications or to discontinue products without notice.

## Customer Solutions

If you have a question concerning your AmScope Microscope, contact the AmScope Customer Service at:

**Email:** [info@amscope.com](mailto:info@amscope.com)

**Telephone:** 1-888-950-2888 (toll free) / 949-333-0001.

**Fax:** 949-271-4795

**Customer Service Hours:** 5:00 AM to 6:00 PM, Pacific Time,  
Monday through Friday, excluding holidays.

In the unlikely event that your microscope requires returns or exchange, write or call the AmScope Customer Service first, before returning the microscope, provide a detailed description of the problem, as well as your name, address, and daytime telephone number. The great majority of service issues can be resolved by telephone, avoiding the return of the microscope. If factory service is required, you will be assigned a Return Merchandise Authorization (RMA) number prior to the return.

## Accessories and Spare Parts

For current accessories and spares, please check out our website -  
[www.amscope.com](http://www.amscope.com)