1080P Full HD WiFi Digital Microscope

(for iOS/Android, PC)



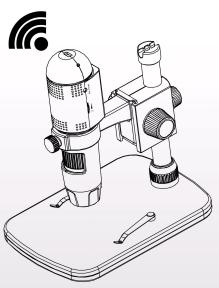


Table of Contents

Precau	tion	4
Prepara	ation	5
•	Standard accessories	5
•	Parts Names & Functions	6
•	System requirements	7
•	Technical Specifications	7
Use on	iOS/Android Device by WiFi	8
•	Insert a Micro-SD card	8
•	Download App	9
•	Connect to iOS/Android Device	
•	Start preview	
•	Take a photo	12
•	Record video	12
•	Playback	13
•	Download files to Smart phone	
•	Delete files	15
•	Settings	16
Install the microscope to the Stand		
How to	get focus	20
Use the	e microscope on PC	2
Install t	he Software on PC(Windows)	22
Start M	licroscope	23
Softwa	re functions	24
•	Capture Photo	24
•	Capture Video	24

•	limer	25
•	Calibration	26
•	Measurement	30
•	Change Calibration	31
•	Draw and text	34
Softwar	e Interface Instructions	35
•	Main Interface Icons	35
•	Main Menu	36
•	Options	37
•	Capture	38
•	Measurement Interface Instruction	39
Instruct	ion for Mac software	40
•	How to Install the Software	40
•	How to use PortableCaptureHD	40
Trouble	eshooting	47

Welcome

Thank you for your choice of our product - it is a high-tech while easy to use 1080P Full HD WiFi Digital Microscope. With this unit you will see a unique and "bigger" world via iOS/Android devices.

It's easy to zoom in on stamps, coins, paper currency, plants, insects, skin, fabrics, rocks and minerals, and so much more.

We recommend reading this manual first to get the best out of this unit.

1. Precaution

Before using the WiFi Digital Microscope, please ensure that you read and understand the safety precautions described below. Always ensure that the WiFi Digital Microscope is operated correctly.

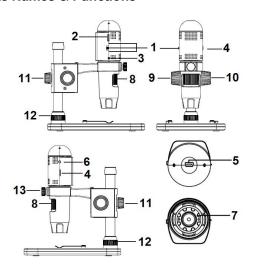
- The Microscope is not waterproof, so keep it dry.
- Do not use it in a humid place like bathrooms. A dry environment will maintain its life to maximum.
- Use the Microscope only at -5 °C-50 °C.
- Sudden temperature change may form dew inside the Microscope like entering a warm room in cold winter.
 Put it inside a handbag or plastic bag to slow down temperature changes.
- Do not point Microscope lens to the sun or strong light for a long time. Powerful light may hurt the light-sensitive electronics.
- Avoid touching the lens.
- The white LEDs which illuminate the Microscope target field are very bright. Do not stare directly into these LEDs as it may damage your eyes.
- The clear plastic distance shell sometimes picks up dirt or toxic material from a microscopically observed surface. Be careful that this doesn't get in contact with the human skin. Always wash carefully or disinfect as needed.

2. Preparation

Standard accessories



■ Parts Names & Functions



Part#	Meaning	Part#	Meaning
1	OFF/WiFi/USB	8	Focus wheel
2	Micro-SD slot	9	Wheel
			(Fixing the movement)
3	Reset	10	Wheel (for up/down)
4	LED Dimmer	11	Wheel
			(fixing on the pole)
5	USB	12	Wheel
	(PC and Charge)		(fixing on the stage)
6	Charging	13	Wheel
	indicator		(fixing the microscope)
7	LED		

■ System Requirements

1. iOS/Android

- * iOS 5.1 and later
- * Android 4.3 and later

2. PC

* Windows XP / VISTA / WIN7 / WIN8 / WIN10

* Mac 10.7 and above

* P4 1.8 or above

* RAM: 512M

* Video Memory: 64M

* USB port: 2.0 * CD-ROM Drive

■ Technical Specifications

Image sensor	3 Mega Pixels (true resolution)
Still capture resolution	12M,8M, 5M, 3M
Video capture resolution	1920x1080 (1080P), 1280x720 (720P), 640x480 (VGA)
Magnification Ratio	10x~230x
Focus Range	Manual focus from 0mm to 50mm
Video format	H.264
Photo format	JPEG
Light source	6 LED (adjustable by control wheel)
	Rechargeable Li-ion battery
Power source	Working time: 3hrs, Charging time: 2hrs
	Charging power: 5V DC
iOS/Android interface	WiFi

	iOS (5.1 and later): WiFiCapture		
A ===	Search and download from App Store		
App	Android: MicroCapture, Install from CD, or search ar		
	Download from https://play.google.com/store		
PC interface	USB2.0		
PC Software	PortableCaptureHD (with measurement)		
	English, Deutsch, Spanish, Russian, Italian, French,		
PC Software Language	Portuguese, Dutch, Polish, Japanese, Korean		
PC Software OS	Windows XP/Vista/Win7/ Win8/Win10; Mac 10.7 and		
Supported	above		
	Microscope: 154mm (L) x 44mm (R)		
Size	Professional Stand: 165mm(L) x118mm(W)x12mm (H)		

3. Use on iOS/Android Device by WiFi

1) Insert a Micro-SD card

Insert a Micro-SD card (not included) to the card slot!

Please note that the Micro-SD card does not supply hot plug in/out, so please always insert or take out the SD card when the microscope is OFF. If you insert or take out the SD card when the microscope is on, sometimes the microscope will get halted. In such a case, please use a pin to press the Reset button. For detailed operation, please refer to troubleshooting.

2) Download App

iOS:

Search and install MicroCapture from App Store.

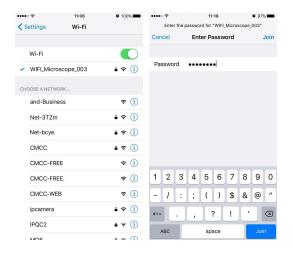
Android:

Search MicroCapture from play.google.com/store, download and install it. Or install MicroCapture from the CD that comes with the package.



- Connect the WiFi Microscope to iOS/Android device. (here we take iOS device as an example)
- Power on the microscope by sliding the Part#1 to WIFI position;
- (2) Turn on the WiFi of your iOS/Android Device, search the WiFi Digital Microscope from the WiFi Device list. The WiFi Microscope name is WIFI Microscope_xxx (xxx is a random number), as follows:

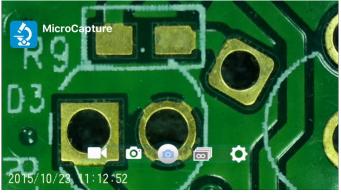
The password to connect the device is **12345678**. Please refer to **Settings** on how to change the password.



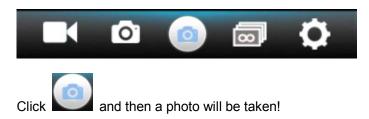
4) Start preview

Start the installed App, live video will show as follows:





5) Take a photo



6) Record video



Click and then the central icon will be , the click the red dot, video recording will start, click again to stop the recording.

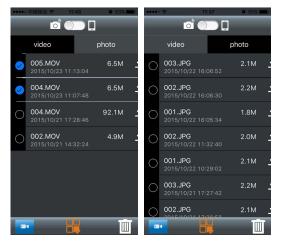
7) Playback

By default, the captured files are stored in the Micro-SD card in the microscope. You can preview them and download them to your Smart phone.



Click 🔯

to enter playback as follows.



8) Download files to Smart phone

By clicking , you can download file to your Smart phone. You can choose if to download the original file or downsized (fast download).



By sliding the dot to the cell phone icon, you can see files that are already downloaded and stored in your phone.



9) Delete files

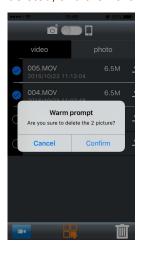


from the bottom bar, tick the files to be

deleted, and then click

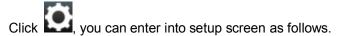


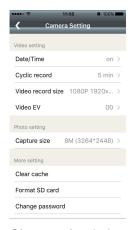
. Finally confirm the delete.



10) Settings







Date/Time: turn on/off the

date stamp

Cyclic record: turn on/off

the cyclic recording.

Video record size: change the video size among 1080P, 720P and VGA

Video EV: adjust the EV Capture size: change the

photo size

among3M/5M/8M/12M.

Clear cache: helps to clear history redundancy and keep video frequent.

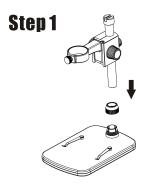
Format SD: format Micro-SD card

Change password: helps to change WiFi connection password (12345678 by default).

Please see troubleshooting on how to do if you forget your new password.

4. Install the Microscope to the Stand

- 1) Take the microscope out from gift box gently; put the carriage stage on a flat surface.
- 2) Follow the below steps:



Put the metal pole through Wheel 12!



Put the metal pole into the female part of the stage!



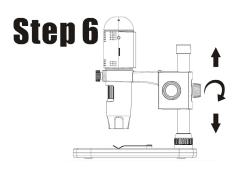
Rotate Wheel 12 to fix the pole on the stage!



Put the microscope into the ring of the stand!



Rotate Wheel 13 clockwise to fix the microscope on the ring.



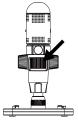
upper part of the stand to get a proper height.
(2) Rotate Wheel 9 clockwise to fix the upper part.

(1) Adjust the

5. How to get focus



Rotate Wheel 10 to get a rough focus!



Rotate Wheel 8 to get a fine focus!



Rotate Wheel 9 to lock or release the movement!

6. Use the Microscope on PC

When connecting to PC, there are two statutes.

- With Micro-SD card inserted, it is mass storage. You can visit files stored on the Micro-SD card.
- Without Micro-SD card inserted, it is PC Camera status. You can output live video to computer. Please see Point-7 for how to use the software on PC.

7. Install the Software on PC (Windows)

Insert the driver CD into CD-ROM Drive and this will automatically display the following interface:

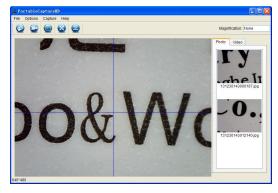


- Install MicroCaptureHD
 Click Install MicroeCaptureHD and the installation wizard will guide you through the whole process.
- 2) Full user's manual can be viewed by clicking **User's Manual**.

8. Start Microscope

Take out Micro-SD card, connect your Microscope to your

PC USB port, start the software by clicking the Portable licon generated on the desktop after installation and you will see the following screen pop up.



When the Microscope is disconnected from your PC USB port, the following message will pop up.

> No Device detected, please connect your Microscope directly to your PC USB port.

9. Software Functions

■ Capture Photo



- a. Click 'Photo' shortcut icon
- in the main menu bar.

b. Click 'Capture > Photo'.



■ Capture Video



a. Click 'Video' shortcut icon bar.

in the main menu

b. Click 'Capture > Video'.

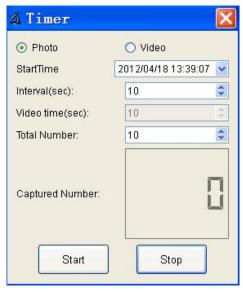


■ Timer (Photo / Video)



Click 'Timer' shortcut icon

in the main menu bar.



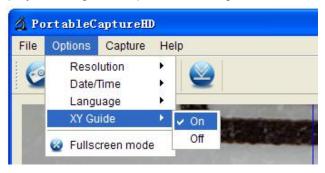
- * Under Timer photo, you can set the start time, interval time and total picture number.
- * Under Timer video, you can set the start time, interval time and total video number.

Calibration and Measurement

Please make calibration before measurement.

Calibration

Display Crossing from 'Options>Crossing".



Microscope default at crossing "on"

It's used to check the dial on the calibration ruler.

1. Focus microscope on the attached calibration ruler

and then adjust the magnification till the picture is clear. Take a picture for the selected area when the dial is parallel to the crossing as below.

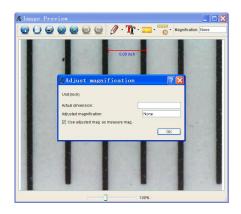


Double-click on the picture to enter into measurement interface as below.



3. Click Calibration icon , and then move mouse to the picture. Click on the beginning and ending points across a known value. Now a dialog will popup as below and you need to enter the exact value of the measurement sample into 'Actual dimension'.

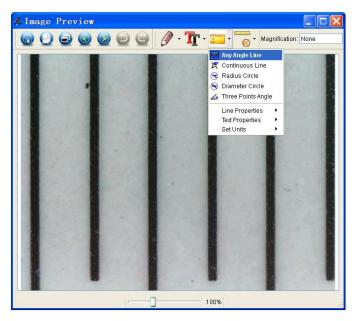
Then the software will automatically calibrate the magnification rate. Click 'OK' and the adjusted magnification rate will show in the upper right corner.



^{*} Remark: The measured line should be paralleled.

4. Now you can use 'Any angle Line' under Measurement

to measure the value again. If the value you measure by software is nearly the same as the exact value of the dial means the calibration finish.



Measurement

Double-click on the picture to enter into measurement

interface. Under the 'Measurement' icon , you can choose any desired options to measure.

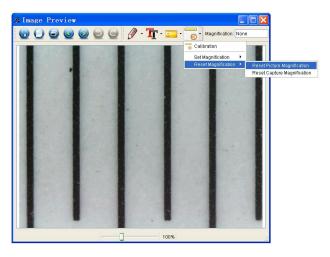
- 1. Any Angle Line Measurement Simply click from one point and drag to the next point, and then release the click.
- Continuous Line Measurement
 The Continuous Line measurement allows you to measure any continuous desired length.

 Simply click and drag from one point to other desired points, and then release the click.
- 3. Radius Circle Measurement Simply click and extend out to the desired radius, the radius, circumference and area of the circle will show up accordingly.
- 4. Diameter Circle Measurement Simply click and extend out to the desired diameter, the diameter, circumference and area of the circle will show up accordingly.
- 5. Three Points Angle Measurement Simply define any three points angle and click, the angle value will then display.

Change Calibration

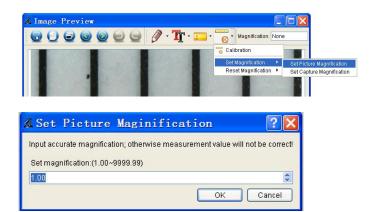
If you need to change the magnification rate and adjust focus to capture picture, please calibrate the magnification rate again.

1. Double click to open the picture, Click '——> Reset magnification > Reset picture magnification' as below. And then start calibration again (Calibration details please refer to page 37).



2. Change the magnification rate and capture several pictures, click on the picture to enter into measurement

interface. And click '_____> Set magnification > Set picture magnification', now a dialog will show up as below; enter the magnification rate into the dialog and click 'OK'.



3. If you want to use the same magnification rate to capture

time landing

pictures, just click '______ > Set magnification > Set capture magnification'. Now all pictures will use the same magnification rate and you can start measurement directly.



Draw and Text

You can draw or add a text on the picture and save for later analysis.

1. Click icon to choose any kinds of drawing under the pull-down manual as below.



2. Click icon and set the font for the text in the popup dialogue as below.



10. Software Interface Instructions

Main Interface Icons



Capture photo – It's used to capture photo one by one.



Start / Stop record video.



Timer for photo / video – Set the start time, interval time and total photo/video number.

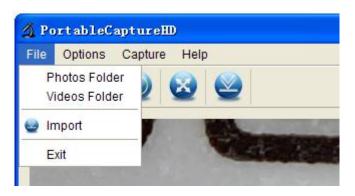


Full screen mode,

Press ESC or double-click to exit.

Main Menu

File

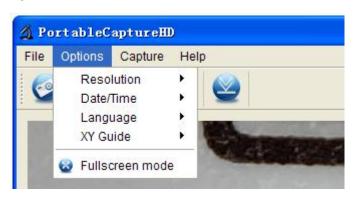


Photos Directory: set the directory to store photos

taken;

Videos Directory: set the directory to store video taken;

Options



Resolution: change preview size

Date/Time: set to display system date/time on preview

window

Language: choose different OSD language

XY Guide: display XY guide on preview window

Full-screen mode: enter into full screen. Click ESC or

double click to exit

Capture



Photo: take a photo

Video: record a video clip

Measurement Interface Instructions



Save as



Redo



Copy to clipboard



Draw



Copy file



Text note



Previous



Measurement



Next



Calibration



Undo

11. Instructions for Mac software

Part I How to Install the Software

Open *mac* folder from the disc and copy **PortableCaptureHD.pkg** onto your desktop for daily use.



Part II How to use PortableCaptureHD

- 1. Plug Microscope into PC USB port.
- Double click PortableCaptureHD icon to open the PortableCaptureHD window. The microscope is now ready to use.



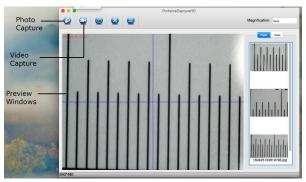
Note:

Please remember to take the micro SD card away from the card slot before connect to the personal computer via USB cable, so that enable you to capture & taking the video on the PC.

If the micro SD card keep in the microscope, then when you connect to the PC it will default as mass storage for you to download your images from the card.

3. Preview

At the central window, you can preview the magnified subject.



4. Change preview resolution

From *Options*, you can choose the preview resolution. The current resolution will be displayed at the left bottom corner of the preview window.



Please note that the preview window size always remains at 640x480 but the current resolution will show at the left bottom corner.

5. Date/Time

From *Options*, you can turn the date/time on or off.



6. Photo capture

You can capture photo by:

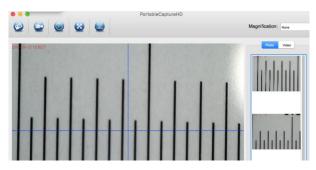
• Choosing Capture/Photo



clicking photo capture icon



The captured photos will appear as thumbnails on the right side of the preview window.



7. Video capture

You can capture video by:

1) choosing Capture/Video



2) clicking video capture icon



Note: After clicking on the icon, the video capture icon will turn red to indicate video clip recording. Click the red icon again, to stop recording!!

The captured videos will be appearing as thumbnails on the right side of the preview window under Video tab.

8. Photo & Video editing

Captured photo & video appear as thumbnails on the right side of the preview window.

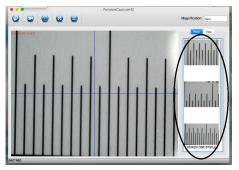
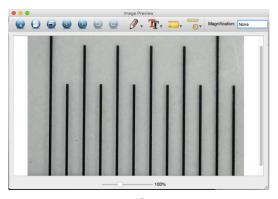


Photo Double click a photo thumbnail to open in the main preview window



You can then carry out operations as you normally do on Mac system.

2) Video

Click a video clip thumbnail, the video will play automatically.

9. Quit MicroCapture

Choose **Quit MicroCapture** as follows, you can quit the software.



12. Troubleshooting

Problem	Solution
After switched to WIFI	1). Rotate the LED dimmer to
position, the LED does	check if it is on.
not light.	2). Charge the battery.
The microscope is halted.	When the microscope is on, use
	a pin to press the Reset button,
	and then power it on again.
The preview by WiFi is quite slow.	Reset the microscope by using
	a pin to press the Reset button
	when the microscope is on and
	then power it again.
	Go to app, enter Setting and
	carry out Clear cache.
I forget my new WIFI connection password.	Create a .txt file named
	PASSWORDRESET, type YES
	in the file, and then put the file
	in a Micro-SD card. Please
	make sure that it is the only file
	in the card. Insert the card to
	microscope and power it on by
	sliding to WIFI position. And
	then the password will be
	restored to 12345678.

This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your ret



contact the local authority or your retailer where you purchased the product.