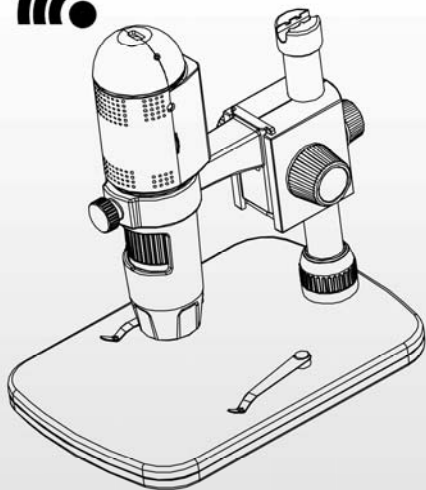


# Wifi Digital Microscope

(for iOS/Android, PC)

User's  
Manual



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## **Welcome**

Thank you for your choice of our product - it is a high-tech while easy to use 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  $-5^{\circ}\text{C}$ - $50^{\circ}\text{C}$ .

- 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



Microscope



Stand



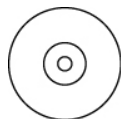
AC adaptor



USB cable



**QSG**



AC adaptor

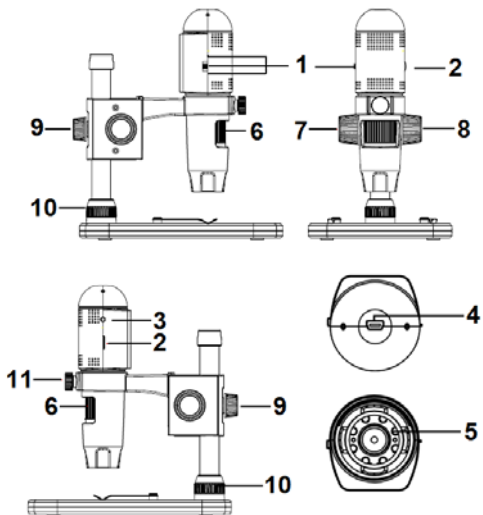


**Calibration Ruler**



Cleaning Fabric

## ■ Parts Names & Functions



Part	Meaning	Part	Meaning
1	Off/Wifi/USB	7	Wheel (Fixing the movement)
2	LED Dimmer	8	Wheel (for up/down)
3	Charging Indicator	9	Wheel (fixing on the pole)
4	USB (PC and Charge)	10	Wheel (fixing on the stage)
5	LED	11	Wheel (fixing the microscope)
6	Focus Wheel		

## ■ System Requirements

### 1. iOS/Android

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

### 2. PC

- \* Windows XP / VISTA / WIN7 / WIN8
- \* P4 1.8 or above
- \* RAM: 512M
- \* Video Memory: 64M
- \* USB port: 2.0
- \* CD-ROM Drive

## ■ **Technical Specifications**

Image sensor	1 Mega Pixels (true resolution)
Still capture resolution	1280x720 (720P), 640x480 (VGA)
Video capture resolution	1280x720 (720P), 640x480 (VGA)
Magnification Ratio	10x~200x
Focus Range	Manual focus from 0mm to 150mm
Video format	H.264
Photo format	JPEG
Light source	6 LED (adjustable by control wheel)
Power source	Rechargeable Li-ion battery Working time: 90mins, Charging time: 100mins Charging power: 5V DC
iOS/Android interface	WiFi

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

### 3. Use the Wifi Microscope on iOS/Android Device

#### 1) Download App

##### iOS:

Search and install WifiCapture from App Store.

##### Android:

Search WifiCapture from [play.google.com/store](https://play.google.com/store), download and install it. Or install WifiCapture from the CD that comes with the package.



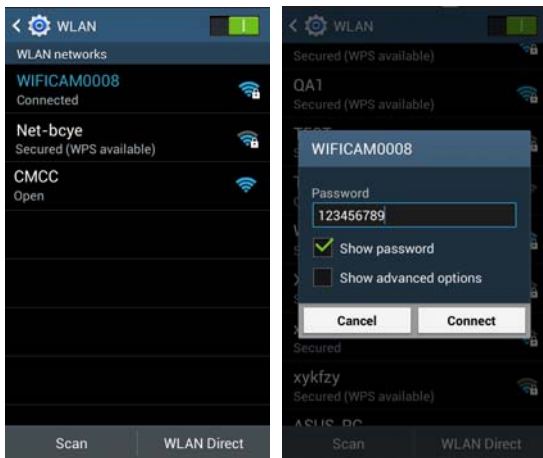


2) **Connect the Wifi Microscope to iOS/Android device.** (here we take Android Smart Phone as an example)

(1) Power on the microscope by sliding the Par1#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 WIFICAMxxxx (xxxx stand for four-digit random number), as follows:

The password to connect the device is **123456789**.

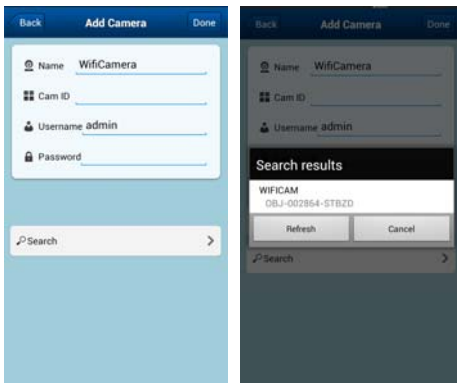


(3) Start the installed App, as follows:



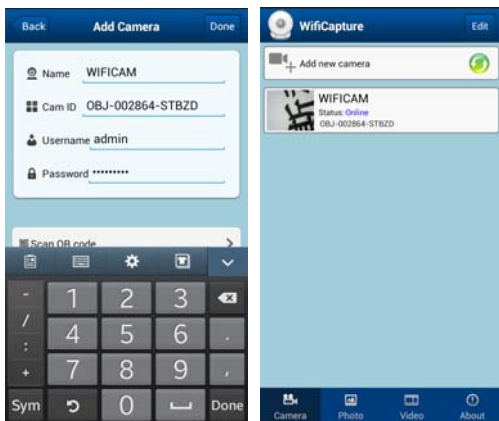
(4) Add Camera

Click **Add new camera**, then click **Search**.



The searched Wifi Camera will be shown on the Search result list. Click the Device name (for example, WIFICAM (OBJ-002864-STBZD)).

(5) User name is **admin**, default password is **123456**, and then the online Wifi Camera is listed.



### 3) Preview












Click the listed Wifi Camera, it starts preview as follows.





The preview can be vertical or horizontal.




## 4) App Interface Icon Definition

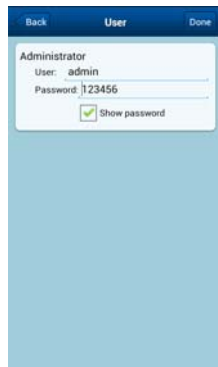
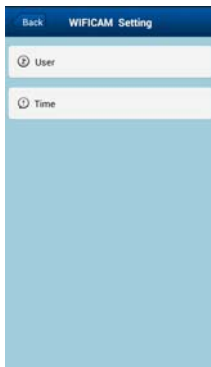


	<b>IQ</b>		<b>Still Image Capture</b>
	<b>Flip</b> (Left/Right )		<b>Video Capture</b>
	<b>Flip</b> (Up/Down)		Change resolution 720P/VGA/QCGA
	<b>Brightness</b>		<b>Screen Rotation</b> (Vertical/Horizontal)
	<b>Contrast</b>		<b>Exit</b>
	<b>Back to Default</b>		


 Camera	 Photo	 Video	 About
Main Interface	Captured Still Image	Captured Video	Version info

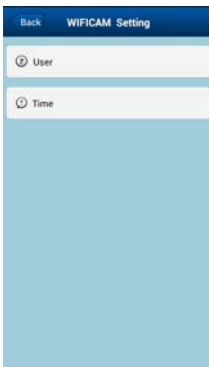
## 5) Change Password

From the camera list, click  , choose **User**, and then input new password. Click **Done** on the right corner to confirm the setup.



## 6) Setup Date/Time

From the camera list, click , choose Time, and then click use the phone time calibrate device's clock.



## 7) Delete a Wifi Camera

You can delete an existing Wifi Camera. Press **Edit** at the right corner.

- (1) For iOS, by sliding (left or right) a target Camera, then confirm to delete it.
- (2) For Android, tick to select a target camera, and then choose Delete.

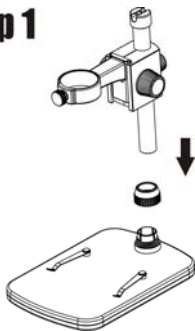




#### 4. Install the Microscope to the Stand

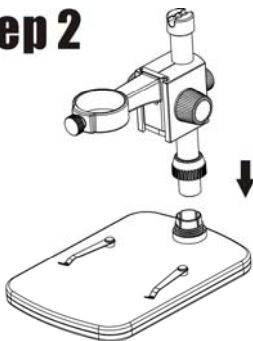
- 1) Take the microscope out from gift box gently; put the carriage stage on a flat surface.
- 2) Follow the below steps:

##### Step 1



Put the metal pole through Wheel 10!

##### Step 2



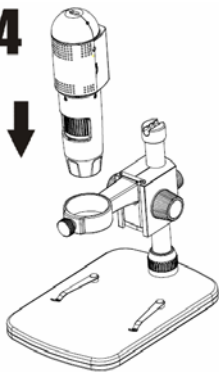
Put the metal pole into the female part of the stage!

## Step 3



Rotate Wheel 10  
to fix the pole  
on the stage!

## Step 4



Put the  
microscope into  
the ring of the  
stand!

# Step 5

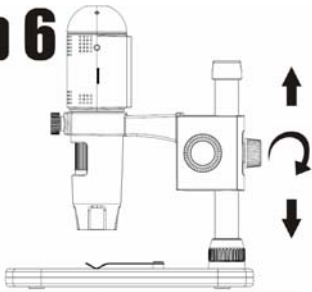


Rotate Wheel 11 clockwise to fix the microscope on the ring.

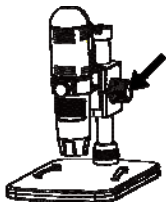
(1) Adjust the upper part of the stand to get a proper height.

(2) Rotate Wheel 9 clockwise to fix the upper part.

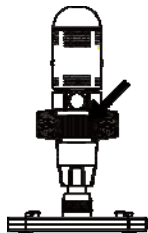
# Step 6



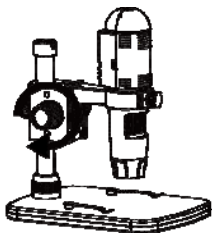
#### 4. How to get focus



**Rotate Wheel 8 to get a rough focus!**



**Rotate Wheel 6 to get a fine focus!**

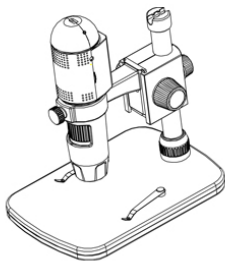


**Rotate Wheel 7 to lock or release the movement!**

## 5. Install the Software on PC (Windows)

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

### ☐☐ Digital Microscope ☐☐



Install PortableCaptureHD

User's manual

Browse the CD

Exit



#### 1) Install PortableCaptureHD

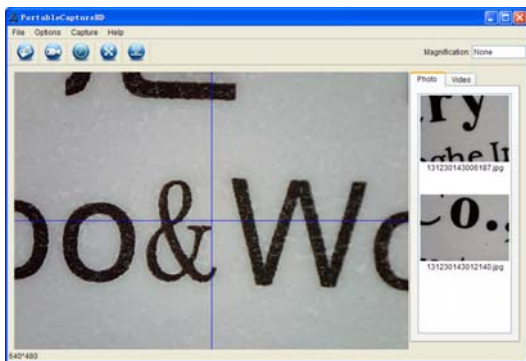
Click Install **PortableCaptureHD** and the installation wizard will guide you through the whole process.

#### 2) Full user's manual can be viewed by clicking **User's Manual**.

## 6. Start Microscope

Connect your Microscope to your PC USB port, start the

software by clicking the  icon 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.

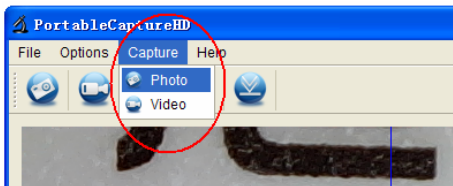
**No Device detected, please  
connect your Microscope  
directly to your PC USB port.**

## 7. Software Functions


### ■ Capture Photo

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

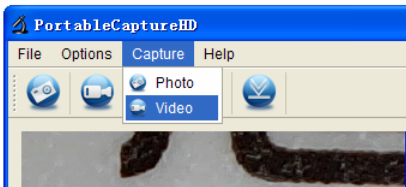
b. Click 'Capture > Photo'.



### ■ Capture Video

a. Click 'Video' shortcut icon  in the main menu bar.

b. Click 'Capture > Video'.



## ■ Timer (Photo / Video)



Click 'Timer' shortcut icon in the main menu bar.

A screenshot of a software dialog box titled "Timer". The dialog has a blue title bar with a close button (X) on the right. Below the title bar, there are two radio buttons: "Photo" (selected) and "Video". Under "Photo", there are four input fields: "StartTime" (2012/04/18 13:39:07), "Interval(sec):" (10), "Video time(sec):" (10), and "Total Number:" (10). Under "Video", there are three input fields: "Interval(sec):" (10), "Video time(sec):" (10), and "Total Number:" (10). At the bottom, there are two buttons: "Start" and "Stop". A "Captured Number:" label is positioned to the left of a large empty rectangular area with a small icon in the center.

\* 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.

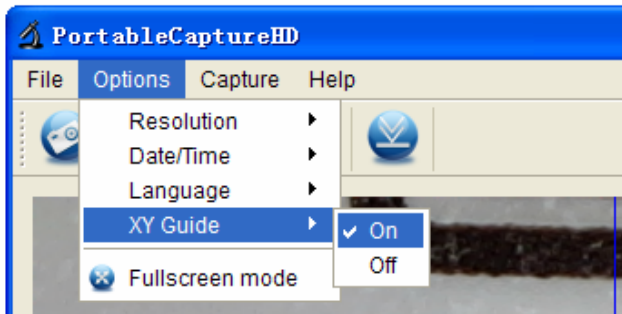


## ■ Calibration and Measurement

Please make calibration before measurement.

### Calibration

Display Crossing from 'Options>Crossing'.



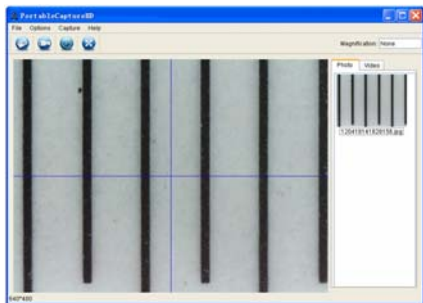
Microscope default at crossing “on”

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

1. Focus microscope on the attached calibration ruler




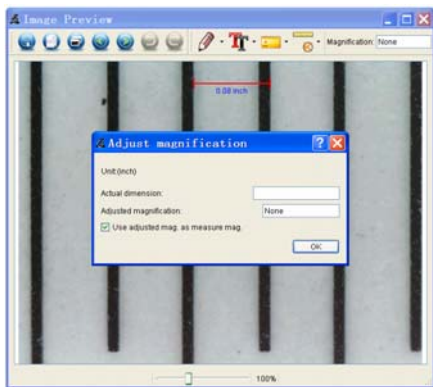
and then adjust the magnification till the picture is clear. Take a picture for the selected area when the dial is parallel to the crossing as below.



2. 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.

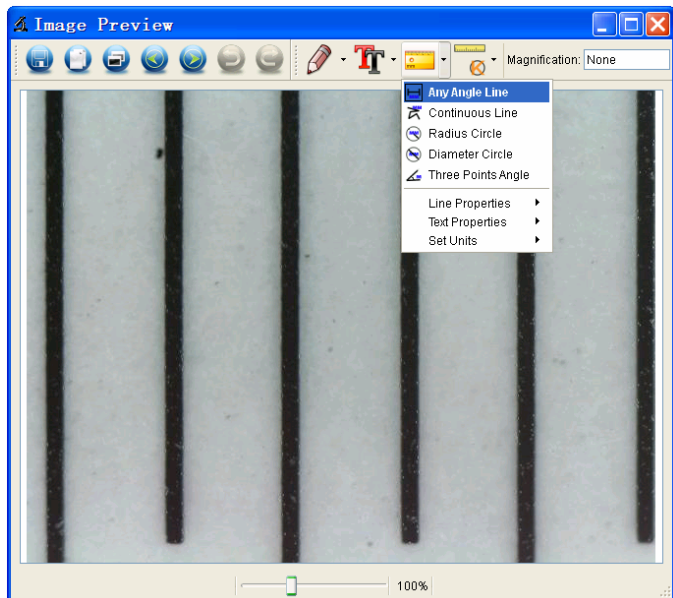


\* Remark: The measured line should be paralleled.


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



icon 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.

### 2. 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

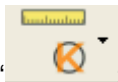
Simply click and extend out to the desired diameter, the diameter, circumference and area of the circle will show up accordingly.

### 5. Three Points Angle Measurement

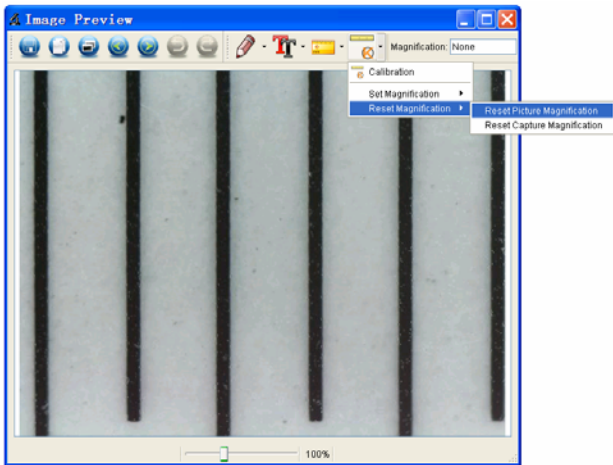
Simply define any three points angle and click, the angle value will then display.

## Change Calibration

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



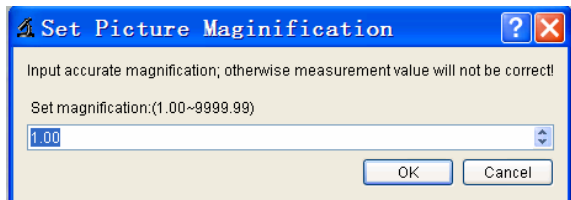
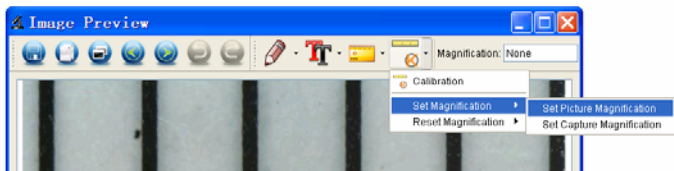
1. Double click to open the picture, Click 'Reset magnification > Reset picture magnification' as below. And then start calibration again (Calibration details please refer to page37).



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



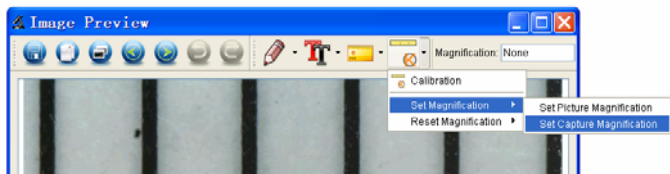
interface. And click 'Set magnification > Set picture magnification', now a dialog will show up as below; enter the magnification rate into the dialog and click 'OK'.



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



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



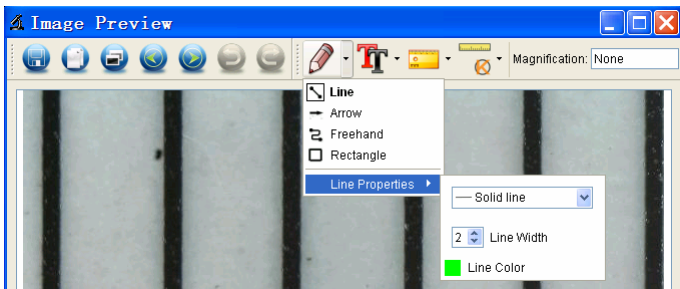


## Draw and Text

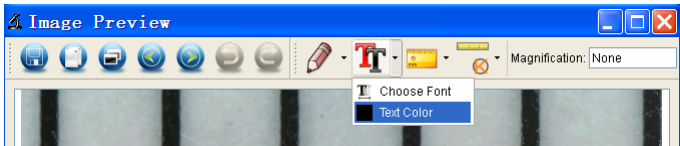
You can draw or add a text on the picture and save for later analysis.



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.



## 8. Software Interface Instructions

### Main Interface Icons



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



Start / Stop record video.



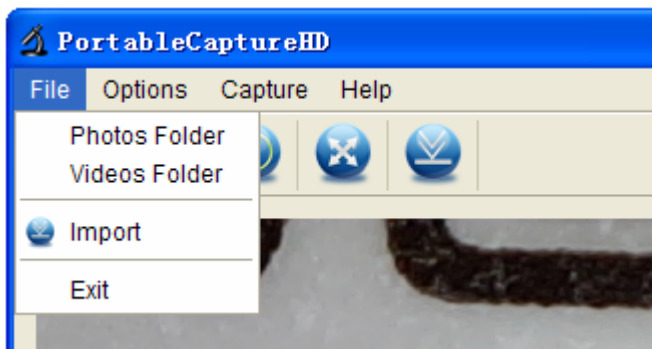
Timer for photo / video – Set the start time, interval time and total photo/video number.



Full screen mode,  
Press ESC or double-click to exit.

## Main Menu

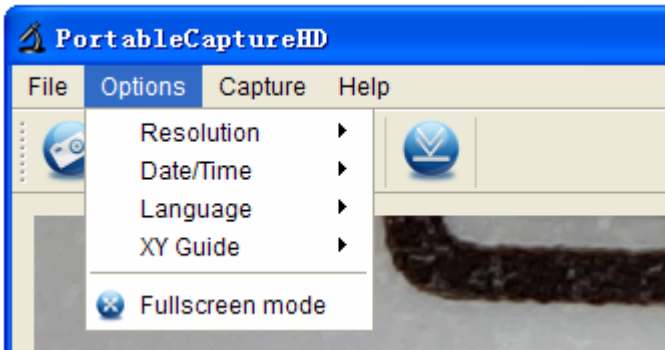
### File



**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

**Crossing:** display cross on preview window

**Full-screen mode:** enter into full screen. Click ESC or double click to exit

## Capture

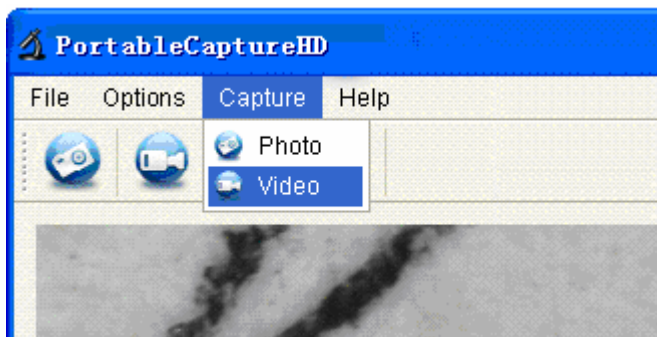


Photo: take a photo

Video: record a video clip

## Measurement Interface Instructions



Save as



Redo



Copy to  
clipboard



Draw



Copy file



Text note



Previous



Measurement



Next



Calibration



Undo

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 retailer where you purchased the product.



### **Federal Communications Commission (FCC) Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### **RF exposure warning**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.