

WiFi Microscope

W5

Micro Capture Software

User Manual

V1.0

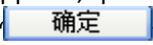
Content

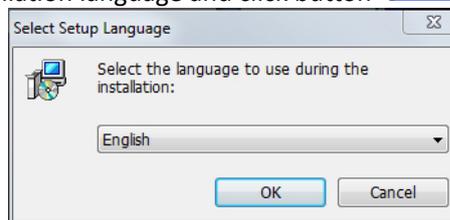
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Chapter 1 Software Installation and Connection

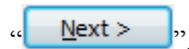
1.1 Windows Software Micro Capture Installation

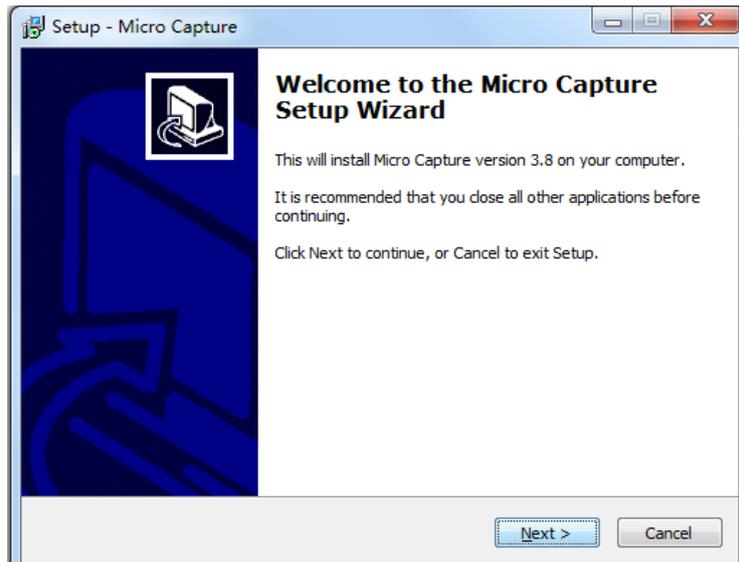
Step 1: Start your computer and put install disk into CD-ROM.

Step 2: Double click file “Micro Capture Install Ver3.3.exe” under the disk content. When the below window appears, please choose the installation language and click button “”.

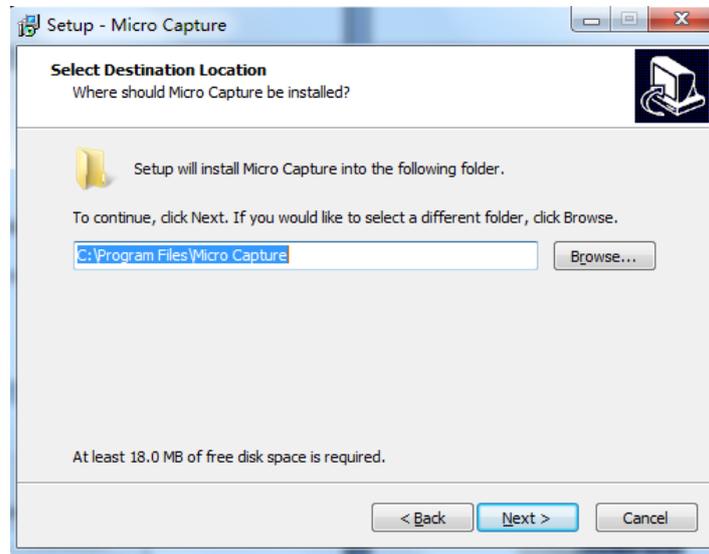


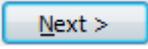
Step 3: When the window “Welcome to use Micro Capture installation Guide” appears, please click button

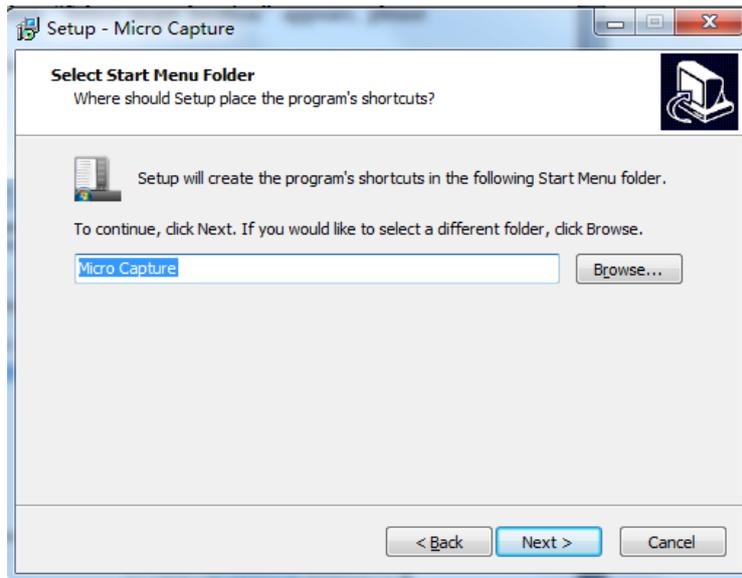




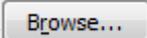
Step 4: When Window “Select target location” appears, please click “browse” to choose file path in which you want to install.

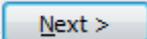


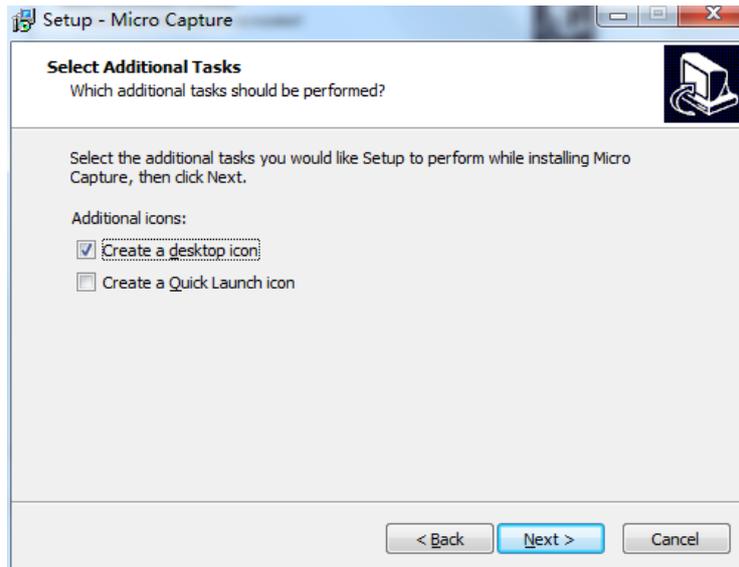
Step 5: Click “” to continue when you confirm the file installation path.



Step 6: When the following window appears, click button

“  ”. After choosing your needed folder, click button

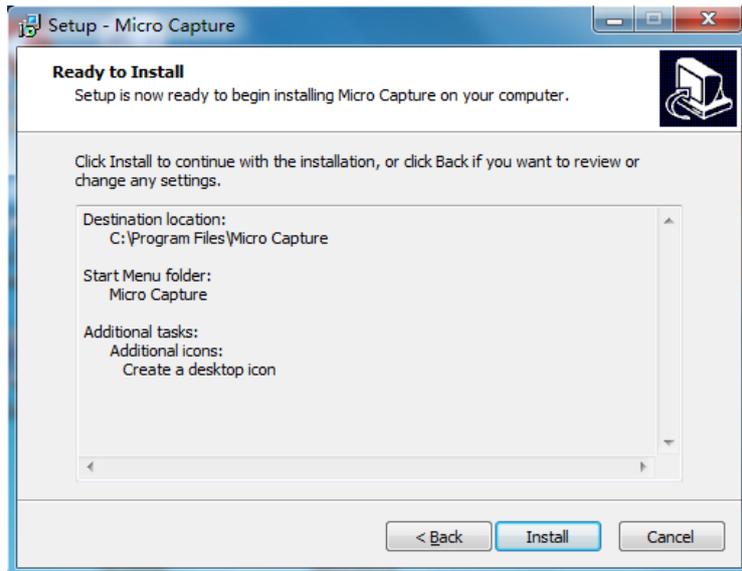
“  ”.



Step 7: When the following window appears, tick of your needed shortcut under “Additional shortcuts” and then click button “

Step 8: Confirm the correctness of “Target location”, “Start menu folder” and “Additional tasks” of the software installation. After confirmation, click button “

- 5 -

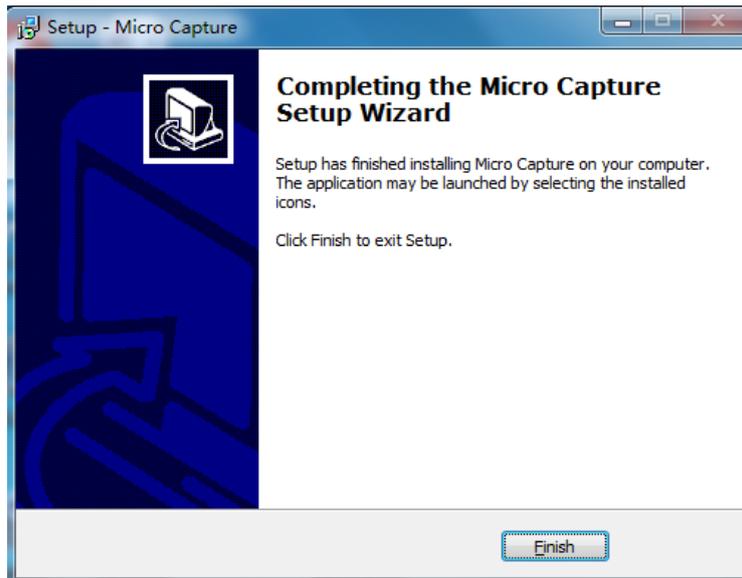


Step 9: Installation progress bar appears during installation.

When the following window appears, the software is successfully

installed. Click “

Check the icon Micro Capture after the window is closed. If you cannot find it, please click “start” → “All programs”.



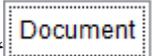
1.2 Device connection

1. Connect USB of electron microscope W5 with USB port of your computer. The system will pop out the window "Found New Hardware" and automatically complete the installation of device driver.

2. Run software "Micro Capture" by clicking desktop shortcut or "Start" → "All programs".

Notice 1: Before your first use of "Micro Capture" program,

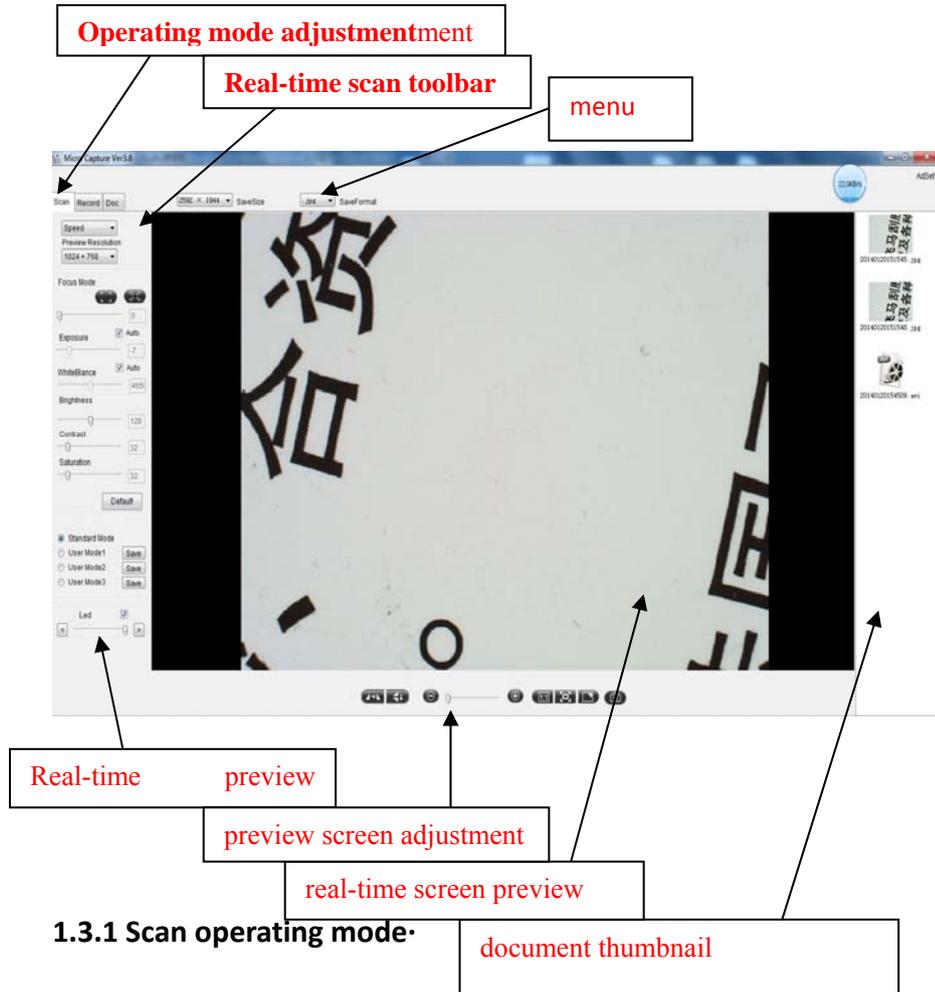
please confirm electron microscopeW5 has already connect the USB port of your computer. Otherwise you can only operate

“” without “” and “”.

Notice 2: For multiple USB ports, if the device is firstly put into this port, the system will automatically complete the driver installation of every USB port.

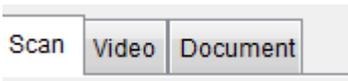
Notice 3: We suggest you close program “Micro Capture” before you unplug the USB cable of the device.

1.3 Panel of Software and Instruction



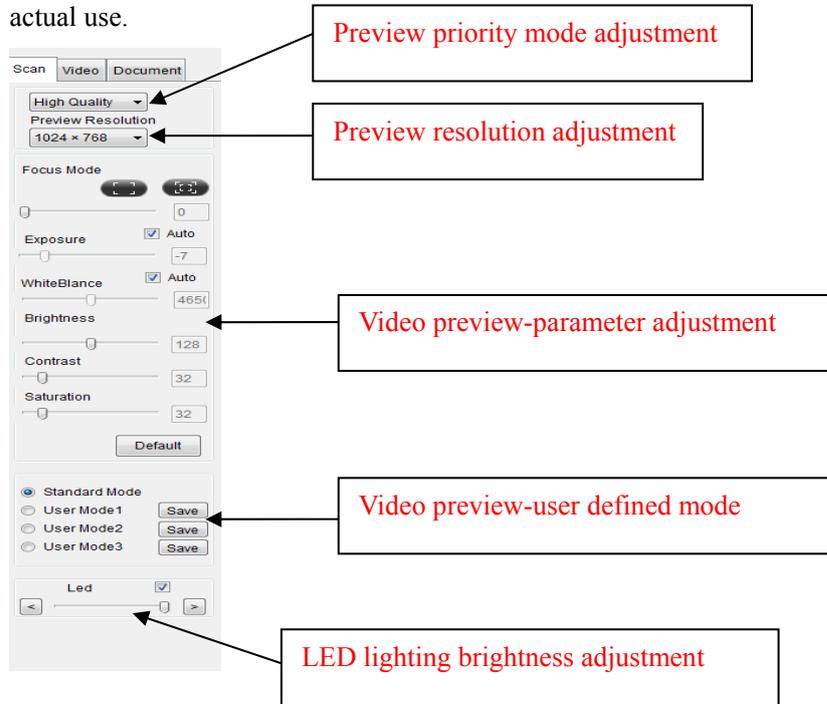
1.3.1 Scan operating mode-

Open Micro Capture program, the default mode of the program is “scan”. The software operating interface is shown as above. According to your need, you can choose among operating

mode  ” Scan ” ” Record ”
and ”File”.

1.3.2 Live preview toolbar

Open Micro Capture program and the interface presets parameters relevant to image display effects to be called for actual use.



1.3.3 Preview priority mode selection

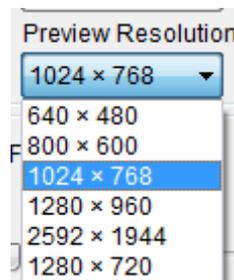
Preview priority modes are divided into "Image quality priority" and "Frame rate priority". The default mode is "Image quality

priority". You can choose any of them according to your needs.



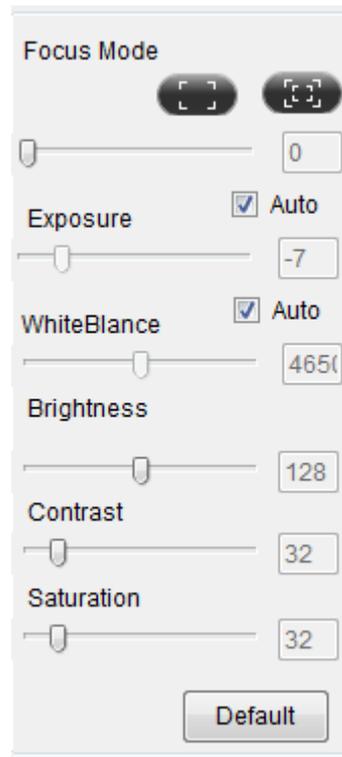
1.3.4 Preview resolution selection

Preview resolutions are divided into mode 640×480、 800×600、 1024×768、 1280×720, mode 1280×1024、 1920×1080 and mode 2592×1944. The default mode is 800×600. You can choose any of them according to your needs.



1.3.5 Video preview- parameter adjustment

You can adjust the relevant parameters according to your needs in order to achieve the best preview and scan effects.



Single-shot focusing: When you click “”, the system will process one-shot focusing.

Continuous focusing: When you click “”, the device will process continuous focusing according to the operating environment, which is effective by one click of this button.

Another click of this button will lead to failure of continuous focusing. You can then adjust manually by

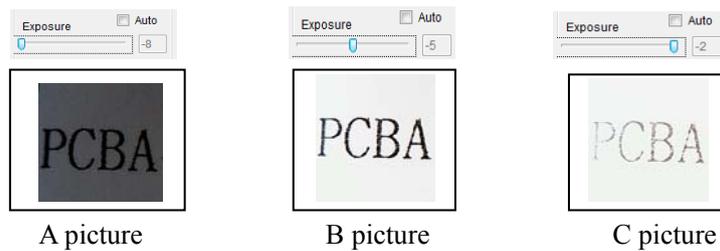
“focusing”.

Focusing: Adjust focusing parameters of the device according to operating environment. The current parameter is get by manual adjustment and is only available when “continuous focusing” fails.

Automatic exposure: The device will process automatic exposure according to the operating environment. It is effective when this option is ticked. For option without ticking, you can also do adjustments by “exposure”

Exposure parameter adjustment: Adjust exposure parameters of the device according to the operating environment. The parameter varies based on automatic exposure and is effective when “automatic exposure” is not ticked.

The below image illustrates effects of different exposure parameters:



A picture Exposure parameter is adjusted too low.

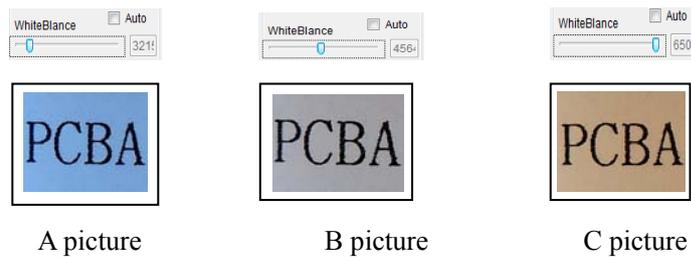
B picture Exposure parameter is adjusted properly.

C picture Exposure parameter is adjusted too high.

Automatic white balance: The device will process automatic white balance according to operating environment, which is effective when this option is ticked. For option without ticking, you can also adjust through “white balance”.

White balance: Adjust the white balance parameter according to operating environment. This parameter varies based on automatic white balance and is effective only when “automatic white balance” option is not ticked.

The below picture illustrates effects of different white balance parameter adjustments.



- A picture White balance parameter is adjusted too low..
- B picture White balance parameter is adjusted properly.
- C picture White balance parameter is adjusted too high.

Lightness adjustment: can change the overall lightness of the image and is usually combined with contrast control to achieve the best effects; Contrast control: can change the comparison between the lightness and darkness and is usually combined with brightness adjustment to achieve the best effects; Saturation control: can change the color saturation of the image to achieve the best effects.

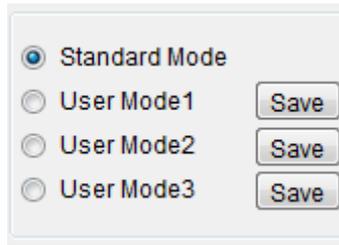
After complete the above parameter adjustment, you can click

 for factory reset if unsatisfied with the effects.

1.3.6 Video preview- Custom mode

Users can pre-save parameters relevant to image display effects to be called for next actual use according to different application scenario. Specific operation is as follows:

Customize each parameter like exposure value, white balance value, lightness value, saturation value and contrast value, then click the custom mode 1 or 2,3 you want to save, and lastly click “save”!



1.3.7 LED illuminating brightness adjustment

Auxiliary lighting LED lamp has six levels of brightness. When this option is ticked, the brightness represents the first level. You can also freely adjust brightness of LED lamp, as shown in the below image (1). Now another tick will lead to LED lamp automatic off.

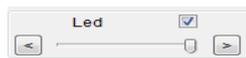


Image (1)

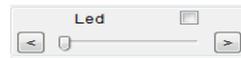
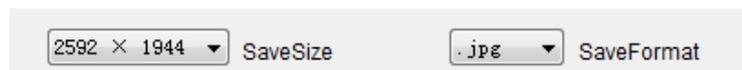


Image (2)

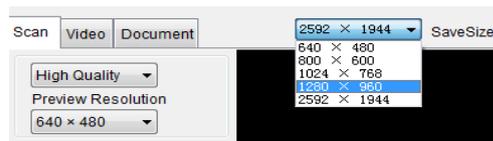
1.3.8 Real-time scan toolbar

Real-time scan toolbar is divided into two parts: save resolution and save format.

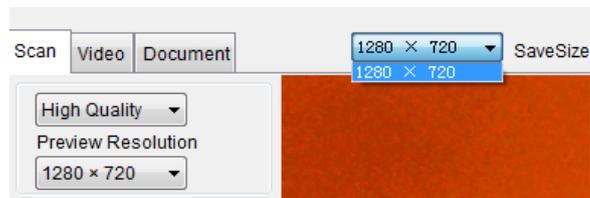


1.3.9 Save resolution

When the preview resolution is 4:3, only resolution 4:3 can be chosen for scanning. Modes include 640×480、800×600、1024×768、1280×720、1280×1024、1920×1080 and 2592×1944. The default max save resolution of 4:3 is 2592×1944, as shown in image (1).

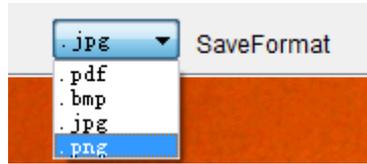


When the preview resolution is 16:9, only resolution 16:9 can be chosen for scanning, 1280×720. The default max save resolution of 16:9 is 1280×720, as shown in image (2).



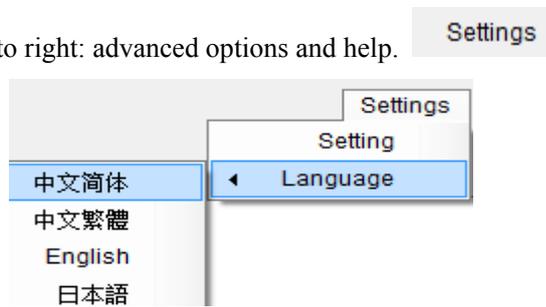
1.3.10 Image format

Save formats include .pdf, .bmp, .jpg and .png. You can choose any of them according to your needs.



1.3.11 Menu

From left to right: advanced options and help.

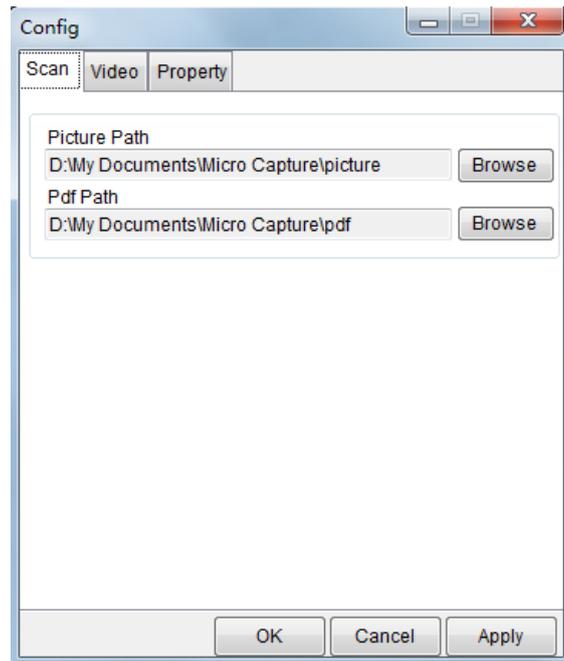


1.3.14 Settings

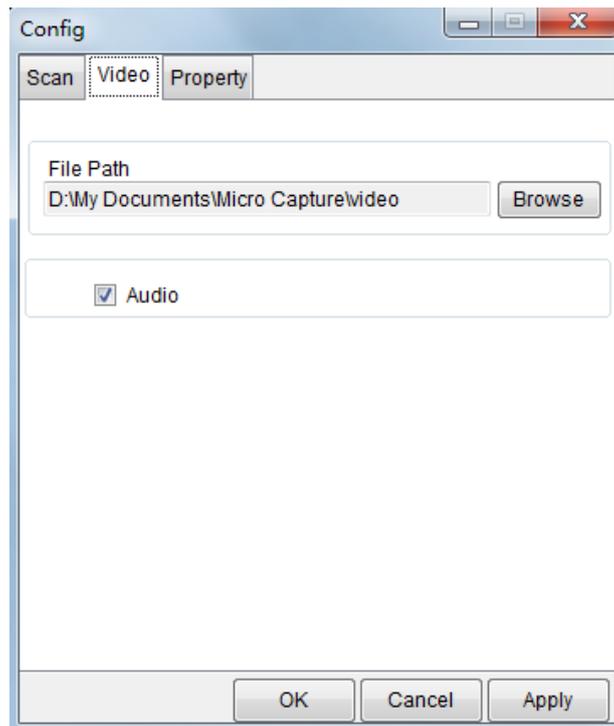
Click “Setting” of advanced options to bring out “scan”, “record” and “property”.

Scan: You can choose the save path of images and PDF

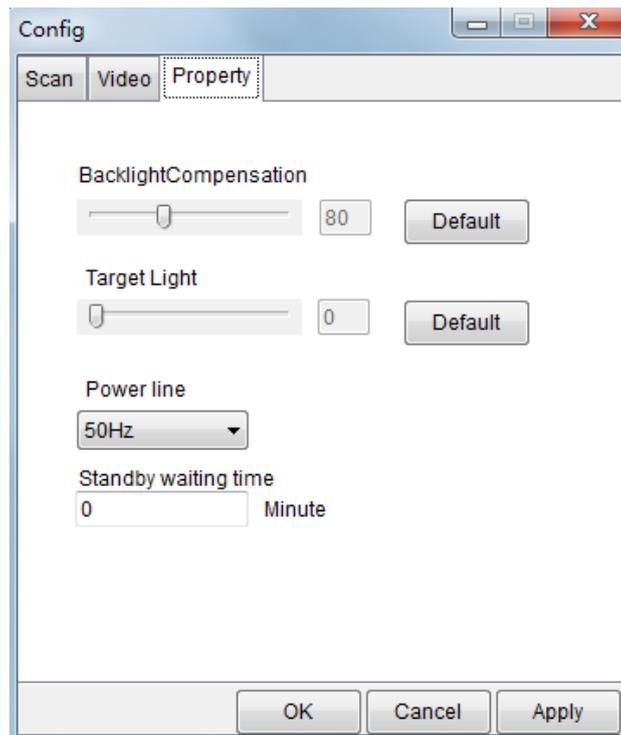
documents, as shown in image below.



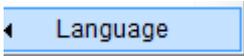
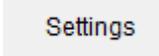
Record: You can choose the save path of video files and recording sound, as shown in image below.



Property: You can make compensative adjustments to light ray and target brightness and adjust the frequency of the power line, as shown in image below.



1.3.15 Multi-language selection

Click “” under button “”.



will pop out to display

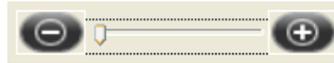
Flip + image preview image contrast (equivalent to 180°rotation of the image)

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的帮助和使用方法需要参
阅附带的光盘中的 User
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安装方法及注意事项，详细
的帮助和使用方法需要参
阅附带的光盘中的 User
Manual。

and zoom in



Under preview resolution 640×480, 800×600 and 1024×768, click button “zoom out” and ” zoom in ” or directly click the seekbar with mouse to zoom out and zoom in the preview screen.

1.3.20 Actual size (1:1)

Click button “” to change the field angle. The default position is in the middle. If it exceeds the current software preview range, you can drag it by left mouse button. Under mode of adapt to the screen, the default position is in the middle.

1.3.21 Adapt to the screen

Click “” to adapt to the current software preview range.

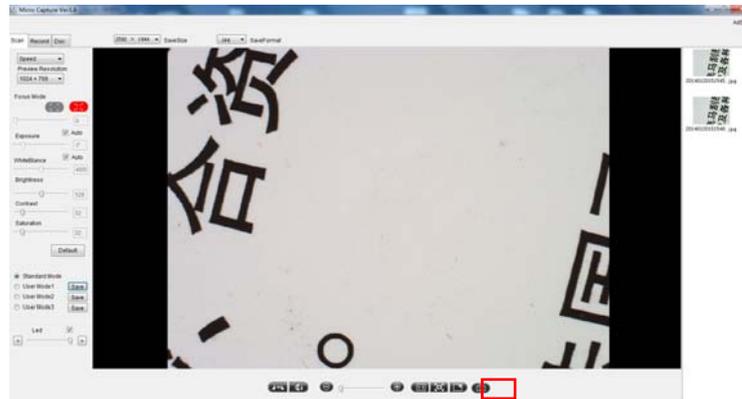
The max screen will not exceed the preview range without field angle change. If the screen is smaller than the preview range, the screen represents the actual image size (such as 640×480).

1.3.22 Full screen

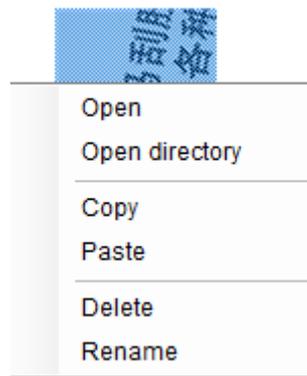
Click  to fill the image on the whole screen. Under this mode, click the right mouse button or press ESC to return, the image location will not change. If the previous state is 1:1, then return 1:1; if the previous state is adapt to size, then return the state of adapt to size.

1.3.23 Scan

Click button “” and press “scan” to scan the image displayed in the preview window.



You can open, open contents, cut, copy, paste, delete, rename the images under the “document thumbnail box”.



The default save path of the scanning documents is:

... \My Documents \Micro Capture \picture

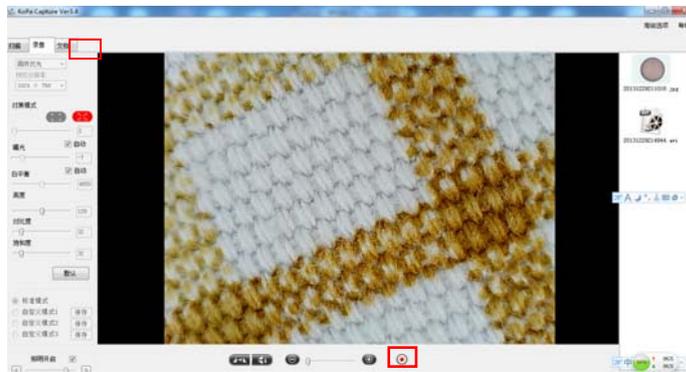
... \My Documents \Micro Capture \pdf

Notice: The save path of the scanning documents can be modified according to your needs. For modification method, please see:

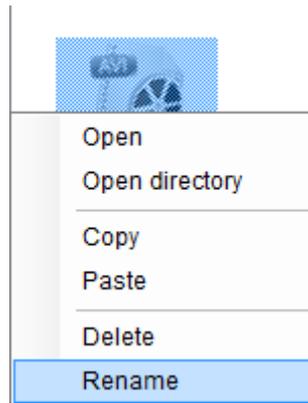
2.9.1

1.3.24 Record operating mode

Press record button “” to record the images displayed in the preview window.



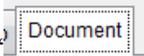
You can open, open contents, cut, copy, paste, delete and rename the images under the “document thumbnail box”.



The default save path of the recording is:
...\\My Documents\\Micro Capture\\video

Notice: The save path of the recording can be modified according to your needs.

1.3.25 Document editing toolbar

Click “” and the following interface will appear:

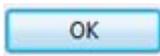


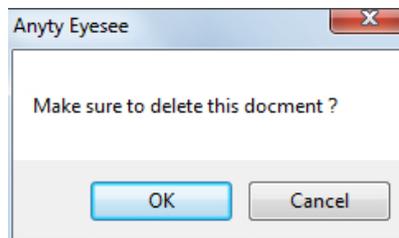
From left to right: delete, derive, PDF, print, as shown in the below picture.



1.3.26 Delete

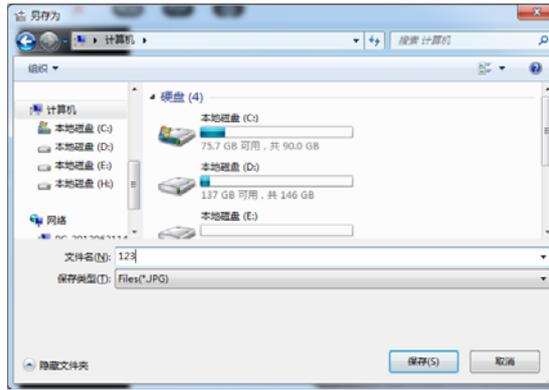
Click button “” and the following picture will appear. Click

“” to delete the document in current preview interface.



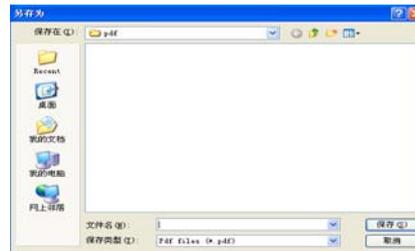
1.3.27 Derive

Click “” and the following picture will appear. You can rename the current preview document, reselect the save format of the document and save it to your specified folder.



1.3.28 PDF

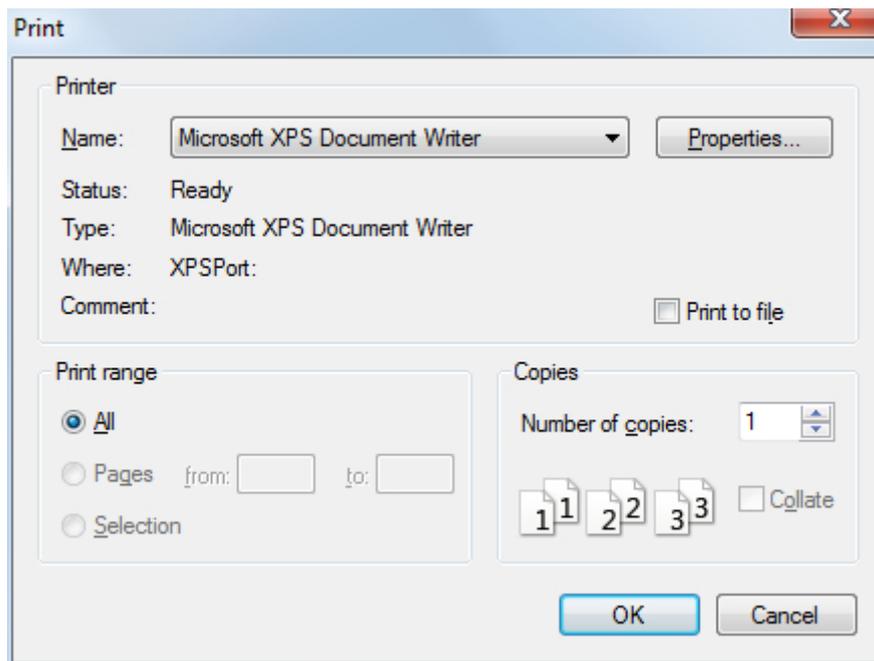
Click “” and the following interface will appear. You can save the current preview document into PDF format, rename and save it to your specified folder.



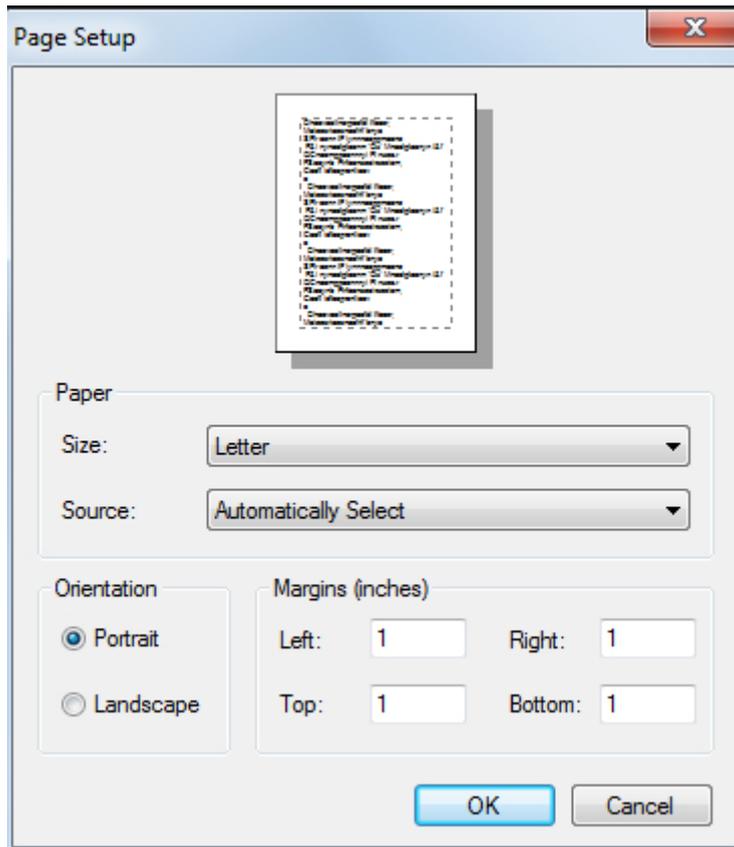
1.3.29 Print

Print “” and three options “print”, “page setup” and “print preview” will pop out. You can print your needed

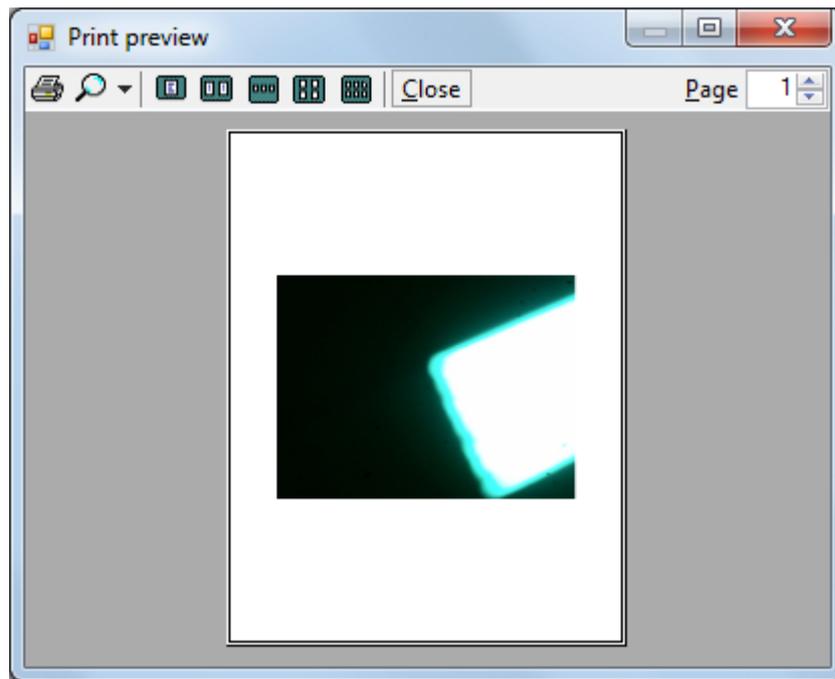
documents.



Print



Page setup



Print preview

To ensure the print results, you'd better operate “page setup” and “print preview” before printing.

1.3.30 Copy

Click “” to copy the current preview images to clipboard. Then users can directly paste them to software supporting direct paste images such as drawing programs, word, Excel, PPT, QQ,

etc.

1.3.31 Zoom out and zoom in

Click “” and “” to zoom out and zoom in current preview document image. The minimum shrink can be 5% of the preview document image, and the maximum be 100%.

1.3.32 Size adjustment of document preview picture



Actual size, Adapt to screen, full screen

For operating methods, please see respectively contents above

1.3.33 Document thumbnail box

Click documents in document thumbnail box to open, open contents, cut, copy, paste, delete and rename documents. For partial operating methods, please see above.

Charter 2 Trouble Removal

- (1) Check the normality of the end of USB cable.
- (2) Check the recognition of the device in My computer-> device manager-> image processing device-> USB video device
- (3) Try to unplug the device again and then open the software.
- (4) Check whether Micro Capture software is running correctly.
- (5) Check whether Micro Capture software is installed correctly.
- (6) Windows wireless operating mode

Switch W5 to WiFi operating mode. After the operating indicator lamp turns green, open wireless network connection and set the IP address to automatic acquisition. Connect wireless network 11nAp.

Open browser (Chrome, FIREFOX)

IE not available

Input URL “ <http://10.10.1.1: 8196>”and visit this website to await image loading

The default URL is <http://10.10.1.1: 8196>. If you have already modified IP address and port number, input URL [http:// \(your modified IP address\)](http:// (your modified IP address)) in browser to browse image.