USB Digital Microscope

(20x-200x)   V1.3

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 Digital Microscope. With this unit you will see a unique and "bigger" world.

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

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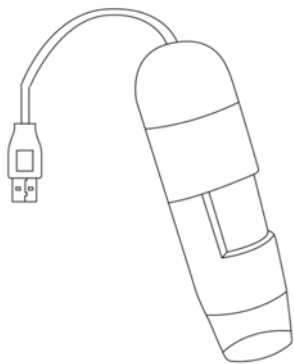
1. Precaution

Before using The USB Digital Microscope, please ensure that you read and understand the safety precautions described below. Always ensure that the USB 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℃-50℃.
- 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.
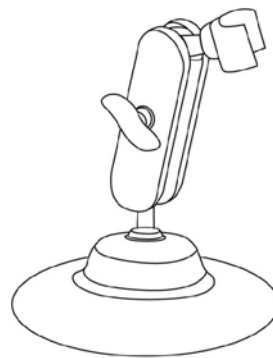
- The clear plastic distance shell sometimes picks up dirt or toxic material from a microscopically observed surface. Be careful that this doesn't get in contact with the human skin. Always wash carefully or disinfect as needed.
- Do not unplug the Microscope from USB port when LEDs are on. This may cause information loss or circuit damage. Please always close MicroCapture and then unplug the Microscope.
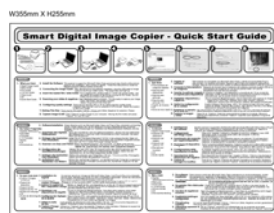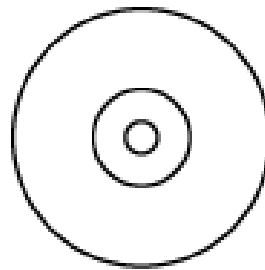
2. Preparation

■ Standard accessories

Microscope

Metal Stand

Quick Guide

CD

■ Parts Names & Functions

1. Snapshot button
2. Focus adjustment wheel

■ Computer System Requirements

- Win2000/XP/VISTA/WIN7&Mac10.5 and above
- P4 1.8 or above
- RAM: 256M
- Video Memory: 32M
- USB port: 2.0
- CD-ROM Drive

■ Technical Specifications

Image sensor	1.3 Mega Pixels (interpolated to 2M)
Still capture resolution	1600x1200 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Video capture resolution	1600x1200 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Focus Range	Manual focus from 10mm to 500mm
Frame Rate	Max 30f/s under 600 Lus Brightness
Magnification Ratio	20x to 200x
Video format	AVI
Photo format	JPEG or BMP
Light source	8 LED (adjustable by control wheel)
PC interface	USB2.0
Power source	5V DC from USB port
Operation system	Windows2000/XP/Vista/Win7/ Mac 10.5 and above
OSD language	English, German, Spanish, Korean, French, Russian
Bundle software	MicroCapture
Size	110mm (L) x 33mm (R)

3. Install the software

Connect the Microscope to Computer! The microscope must be connected to computer before installing the software.
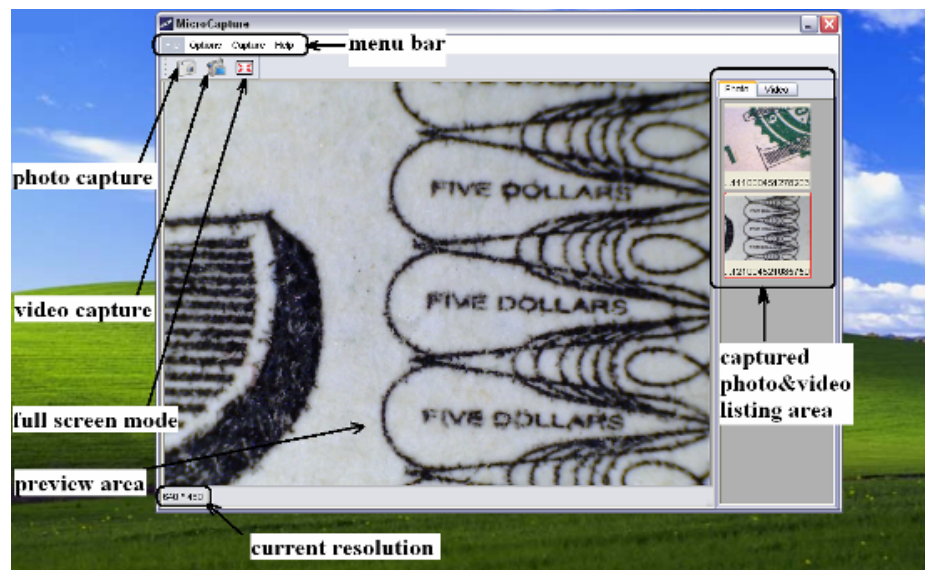
Insert the driver CD into CD-ROM Drive and this will automatically display the following interface:

1). Install the driver by clicking **install *Microscope Driver***
The Install Shield Wizard will walk you through the whole process. Click on the "***Next***" button to continue.

2). Install the MicroCapture software
Click ***MicroCapture Software*** and then reboot the system when asked.

3). you can browse the User's manual in PDF format and the CD contents by choosing the corresponding menus.

4. Start Microscope

Connect your Microscope to your PC USB port, start the

software by clicking the ![MicroCap icon] 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 screen will display "*No Device detected, please connect your Microscope directly to your PC USB port*."
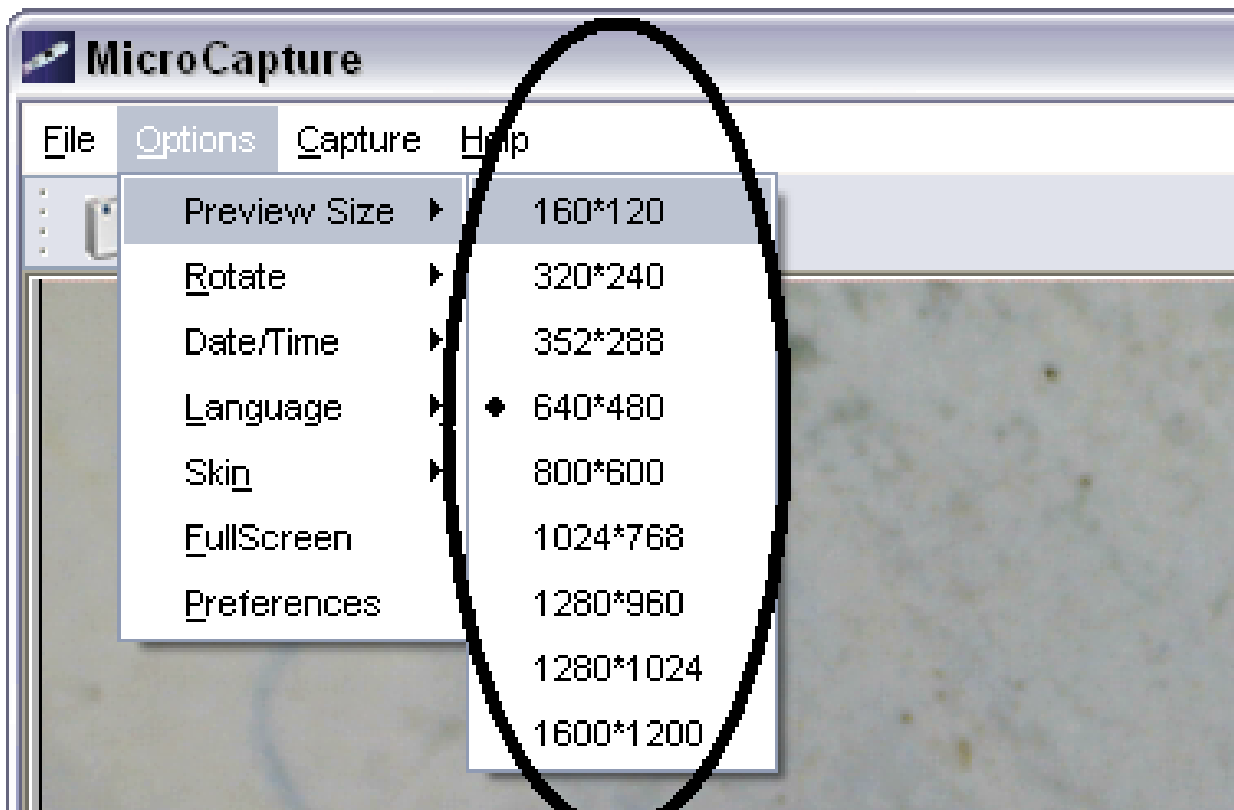

No Device detected, please connect your Microscope directly to your PC USB port.

5. Software functions
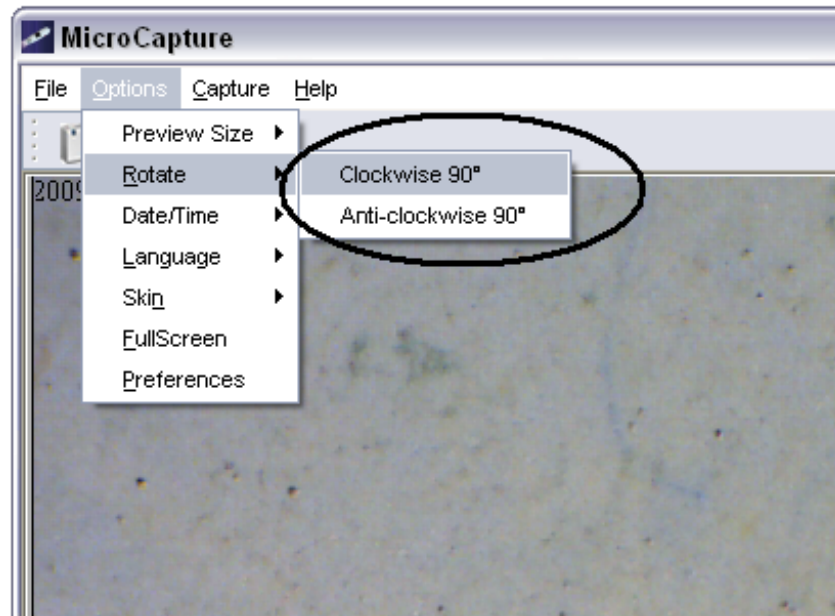
1) Change preview size

You can change the preview size by the following operation:

Note: The size of the photo taken is equivalent to the preview size selected in the Options menu/Preview Size.
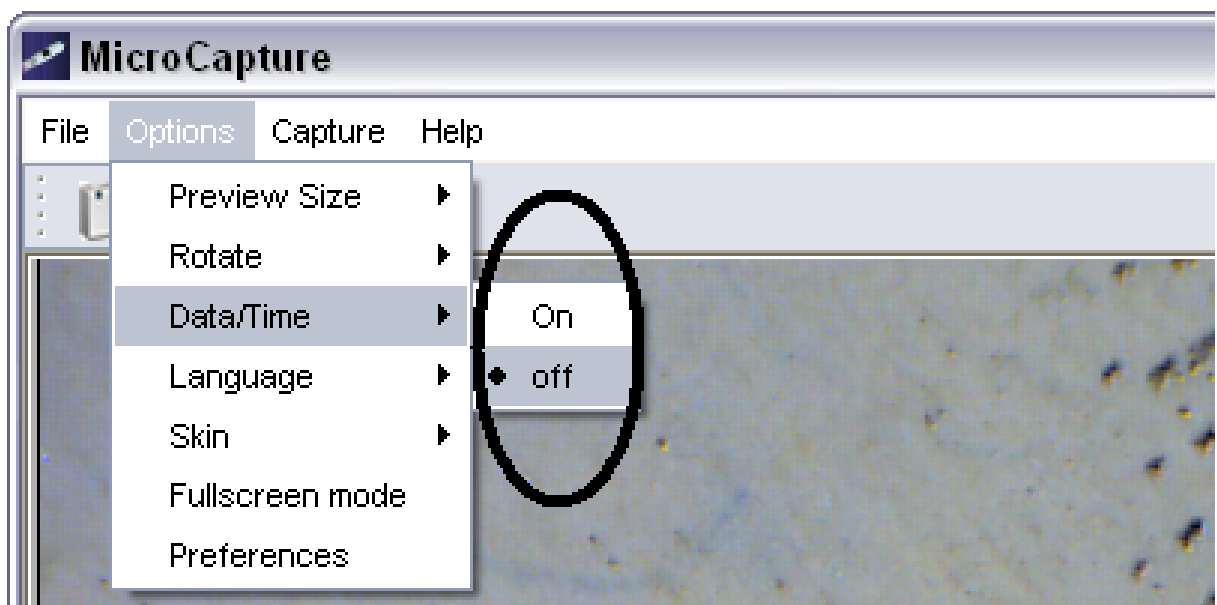
2) Rotate the output image angle

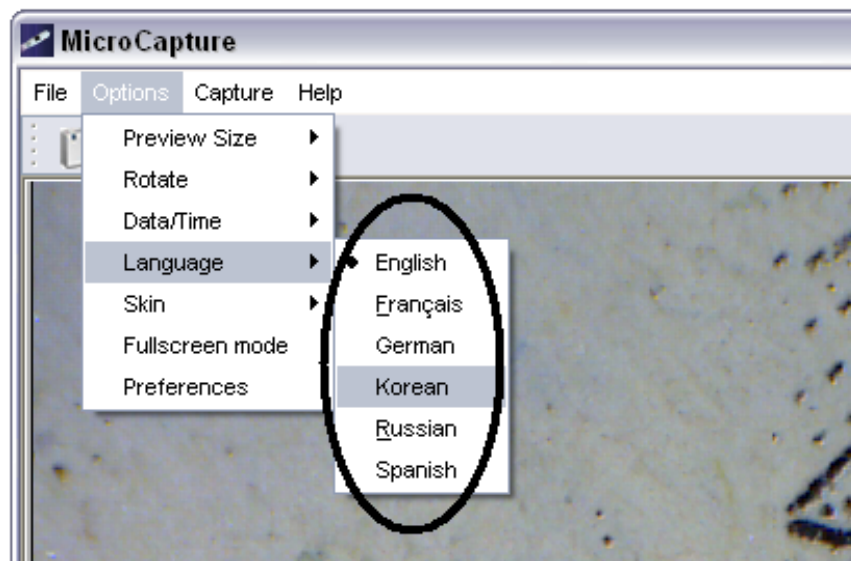You can rotate the output image clockwise and counter-clockwise.

3) Date/Time

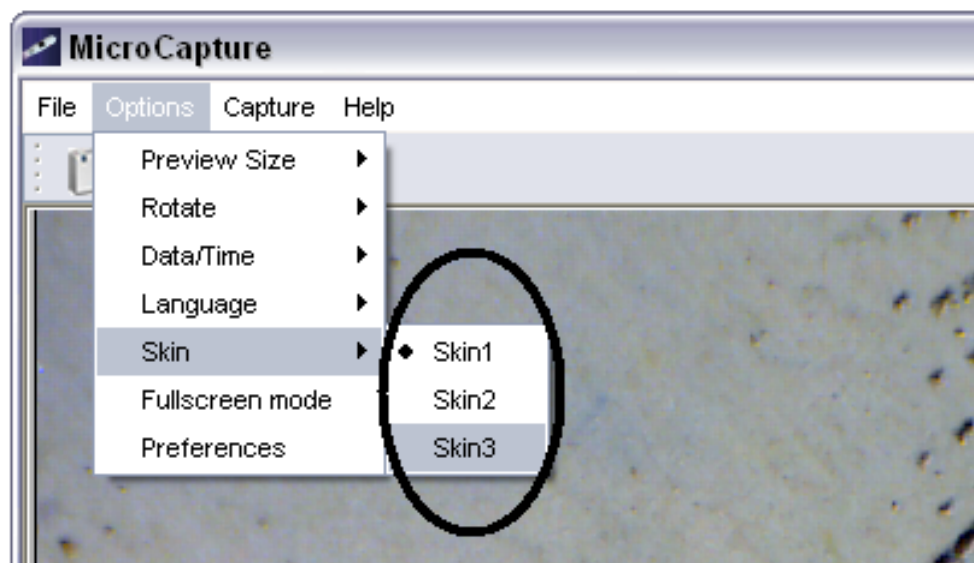You can display or turn off Date/Time by the following operation:

4) Language

You can choose On Screen Display language by the following operation:
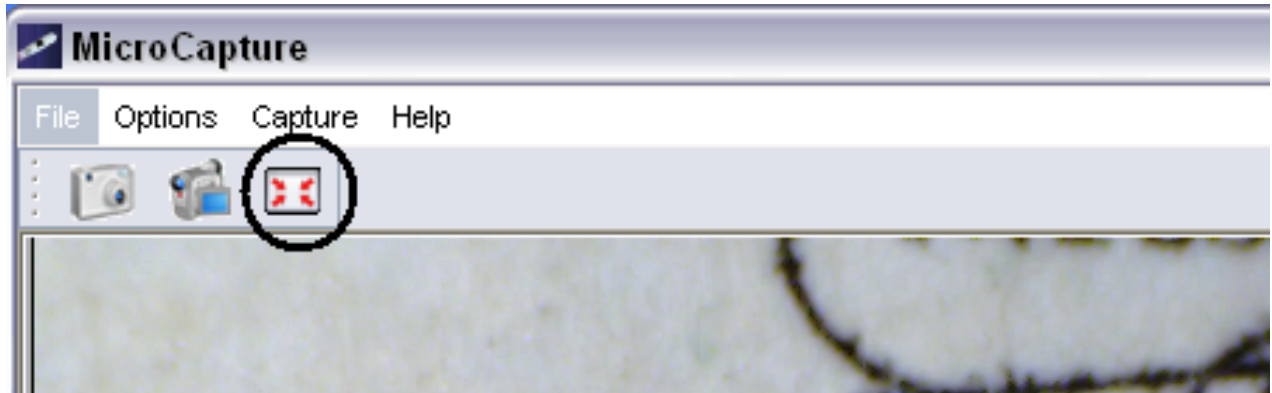

5) Skin

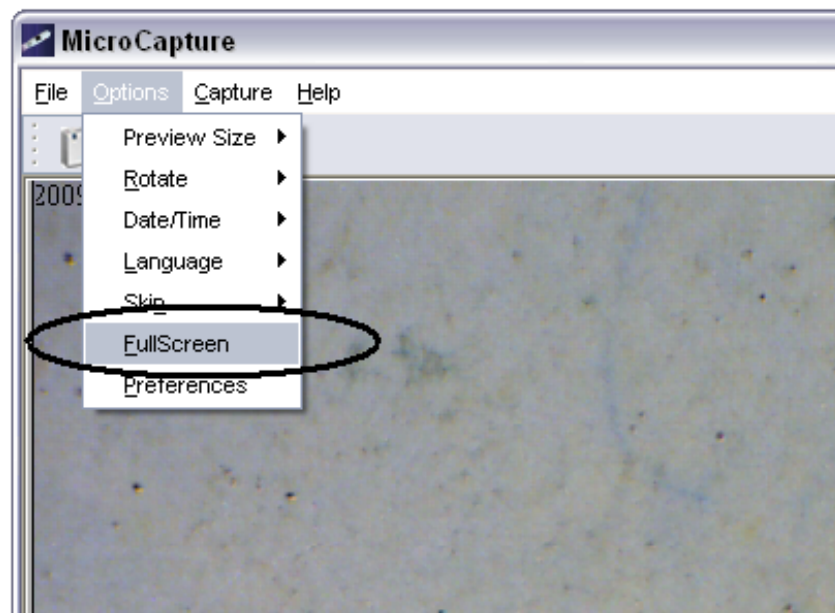You can choose to change the appearance of your MicroCapture screen by the following operation:

6) Full screen

You can enter & quit full screen mode by:

(1) Double-clicking the preview area.
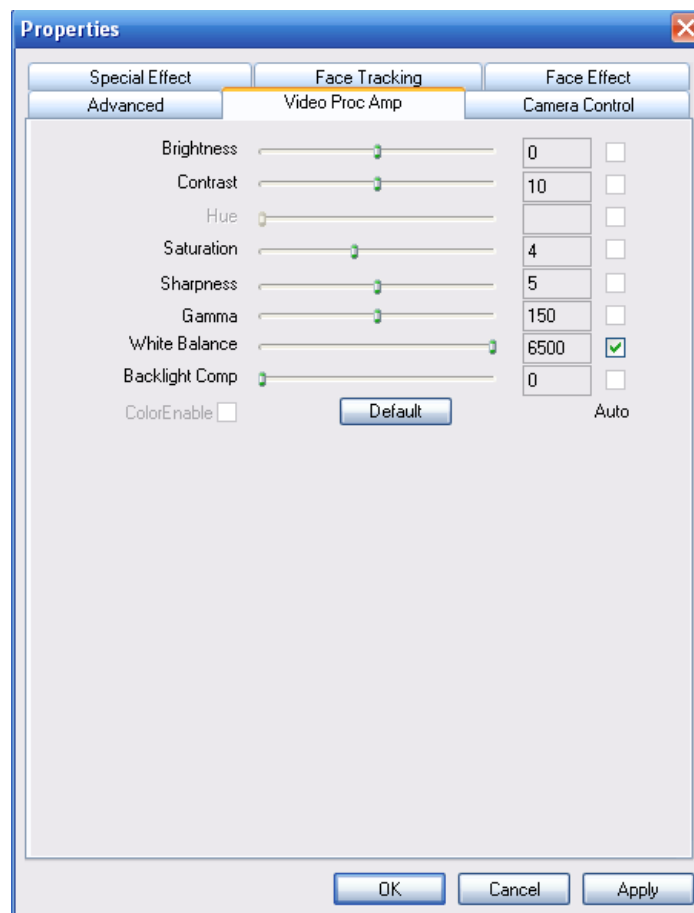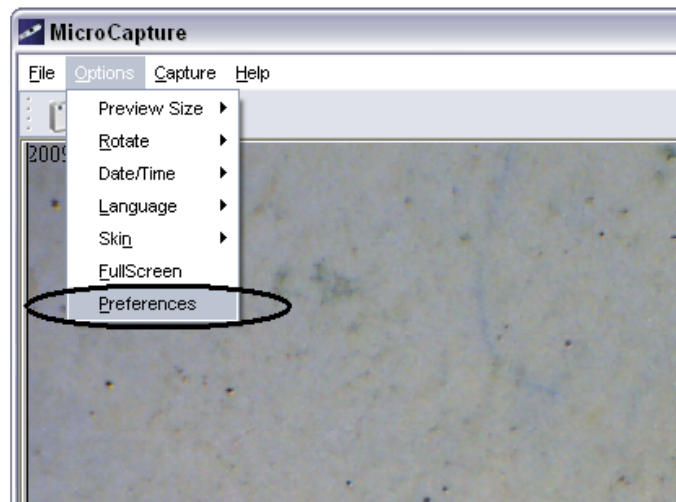
(2) Clicking the full screen icon:

(3) Choose *Full screen mode* from menu.

When in full screen mode, click on the Full screen icon to turn off and restore toolbars and menus.

7) Preferences

Major operations under preferences include Brightness, Contrast, Saturation, white balance etc.

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8) Capture

(1) Photo capture
You can take photos by either of the following ways:

- Click the camera button
- Choose *Capture* and then click *Photo*
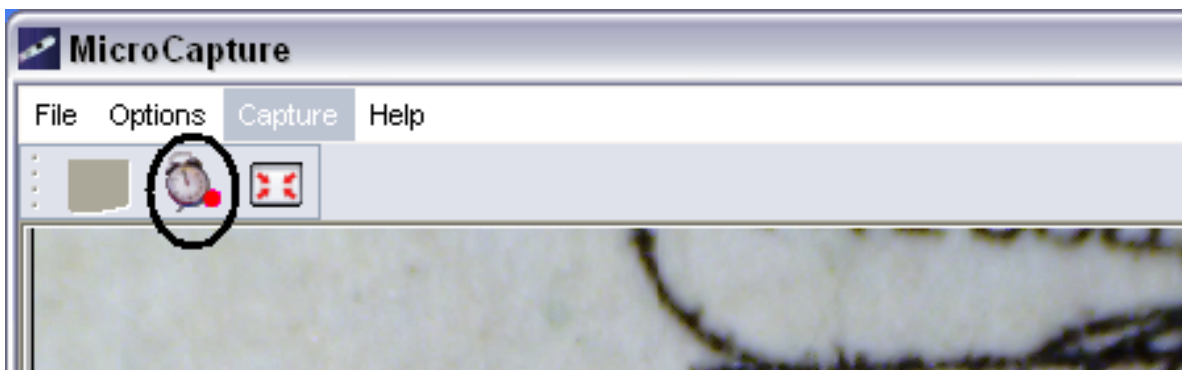- By pressing F11

Captured photos are saved automatically and image thumbnails will be available on the right side of the MicroCapture screen for further editing. For editing photo, please refer to later operations.

(2) Video capture

You can record video by either of the following two ways:

- Click the video camera button
- Choose from the menu bar *Capture* and then click *Video*

When recording, there is a red dot flashing on the video camera button.
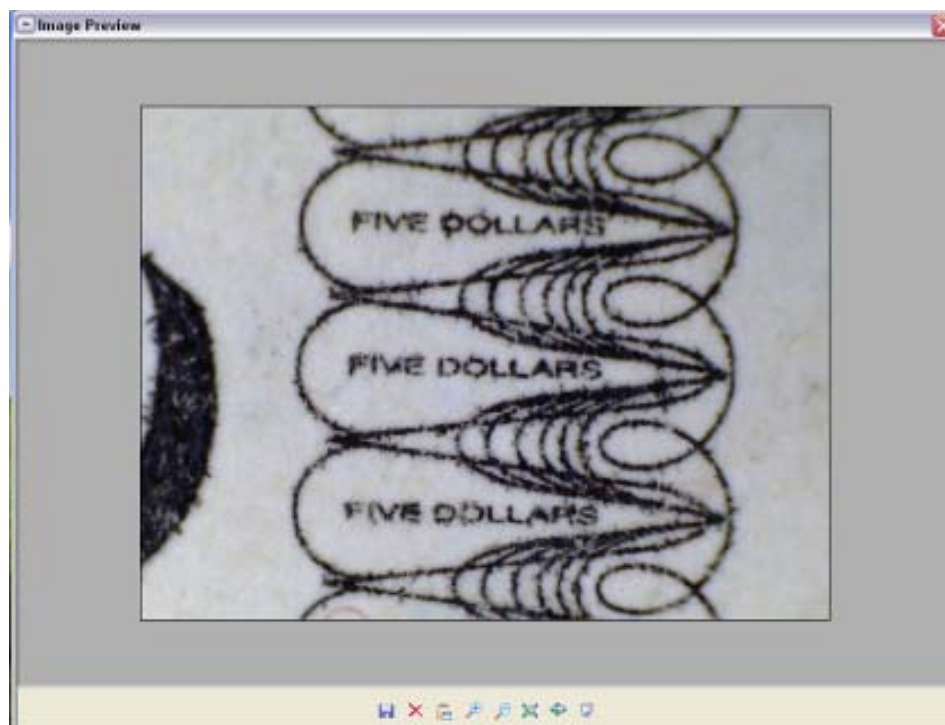

Video is saved in AVI format.

Stop capture:

- Click the flashing video camera button
- Choose **Capture** and then click **Stop capturing**

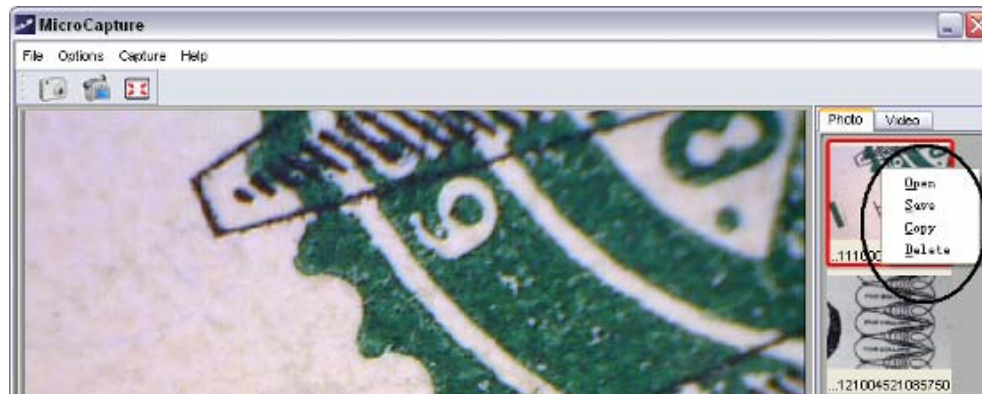**Note: Please note the best pixels for video capturing is 640x480.**
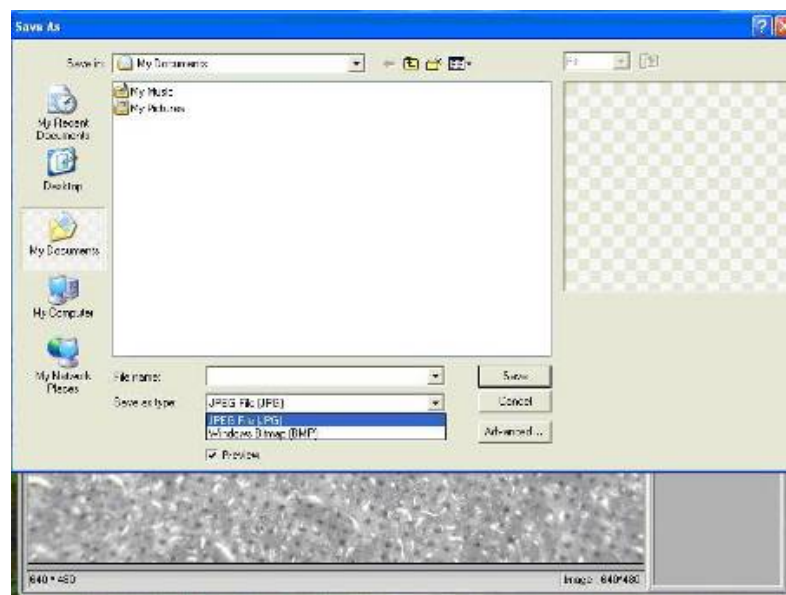
9) Edit photos

(1). Preview photos

a. Clicking on an image thumbnail will display the image selected on the preview area, with its size displayed on the left-bottom corner.

b. You can double click the image thumbnail and an independent preview box will pop up as shown below:

(2). Save photos

You can save photo by right clicking on the thumbnail and then choose **Save**.

The file can be saved in either jpeg or bmp. The jpeg size in which the photo is saved is the maximum allowed for jpeg. You can choose to decrease the size by adjusting quality. Click the Advanced button to view and select jpeg save options.

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(3). Delete photos
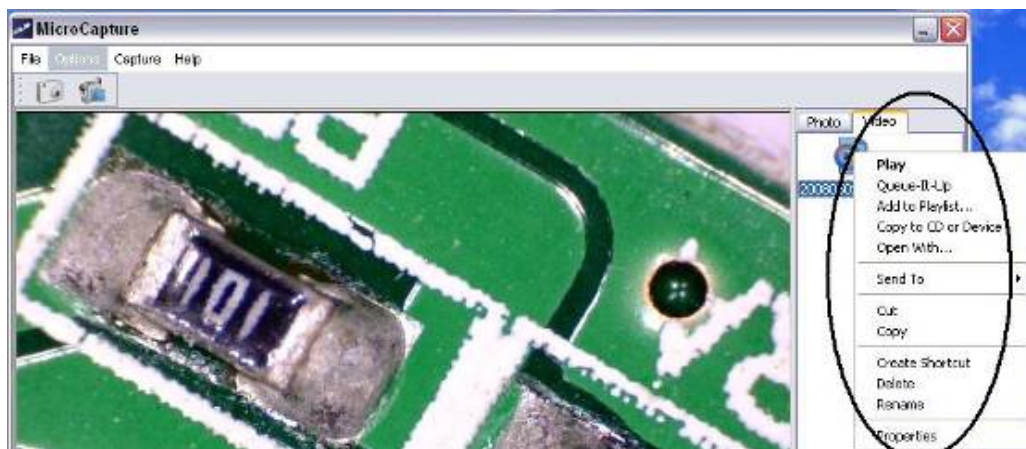By right clicking and then choosing *Delete*, you can delete the selected photo

Or, at the independent preview box you can choose delete icon to delete the previewed photo.
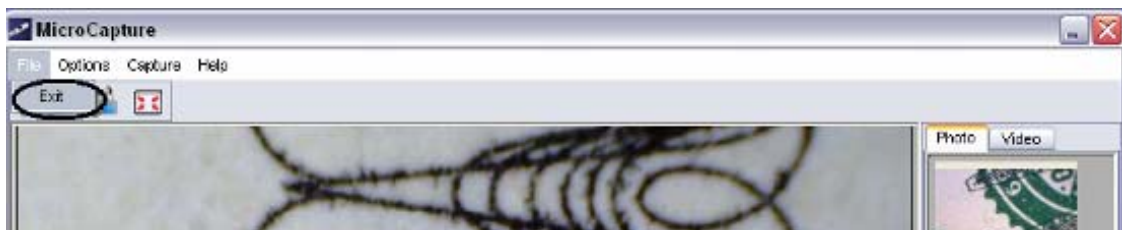
(4). Copy photos
Right click on the thumbnail and then choose *Copy*.

10) Edit videos
You can right click the video small icon listed on the right column and then choose *Play*, *Copy*, and *Delete* etc.

11) Quit MicroCapture

Instructions for Mac software

Part I How to Install the Software

Open *mac* folder from the disc and copy *MicroCapture* onto your desktop for daily use.
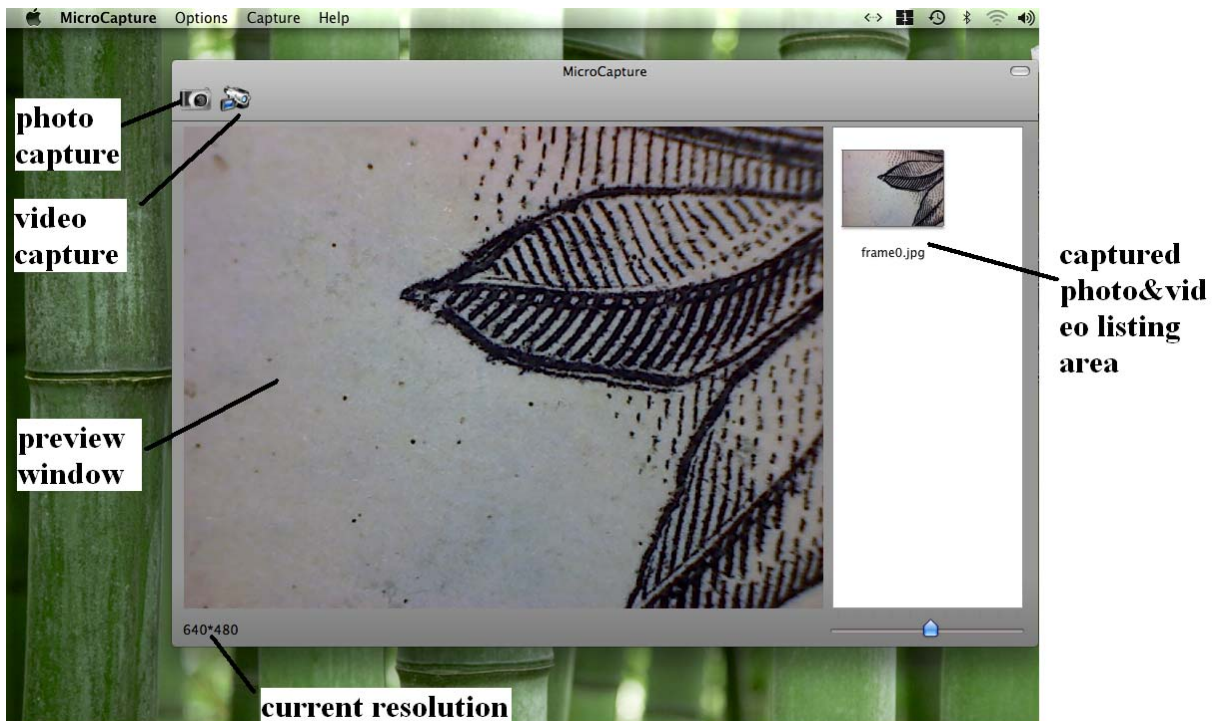
Part II　　How to use MicroCapture

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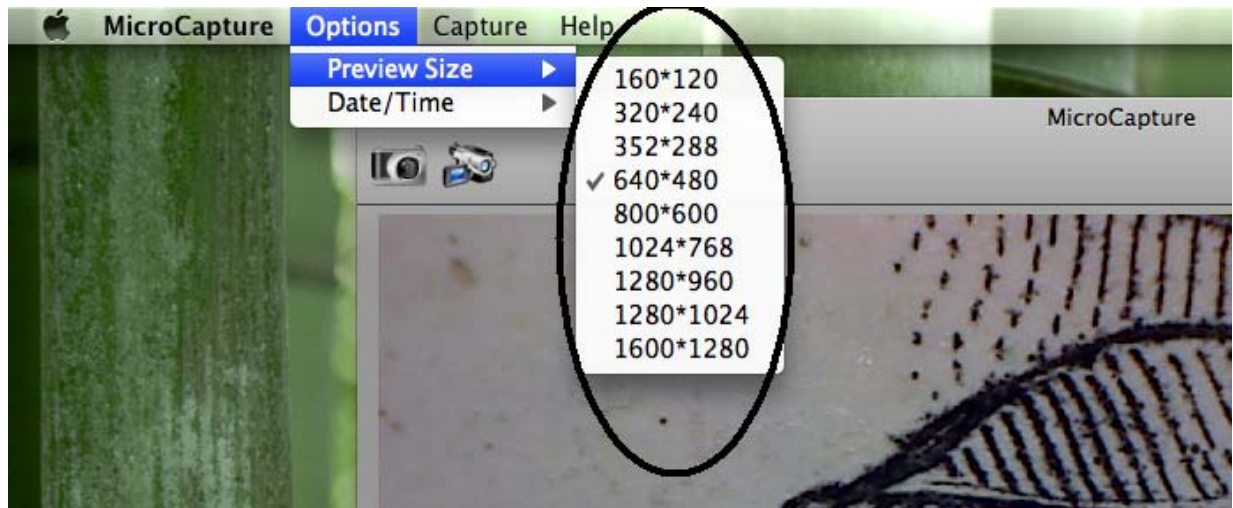

3.　Preview

At the central window, you can preview the magnified subject.
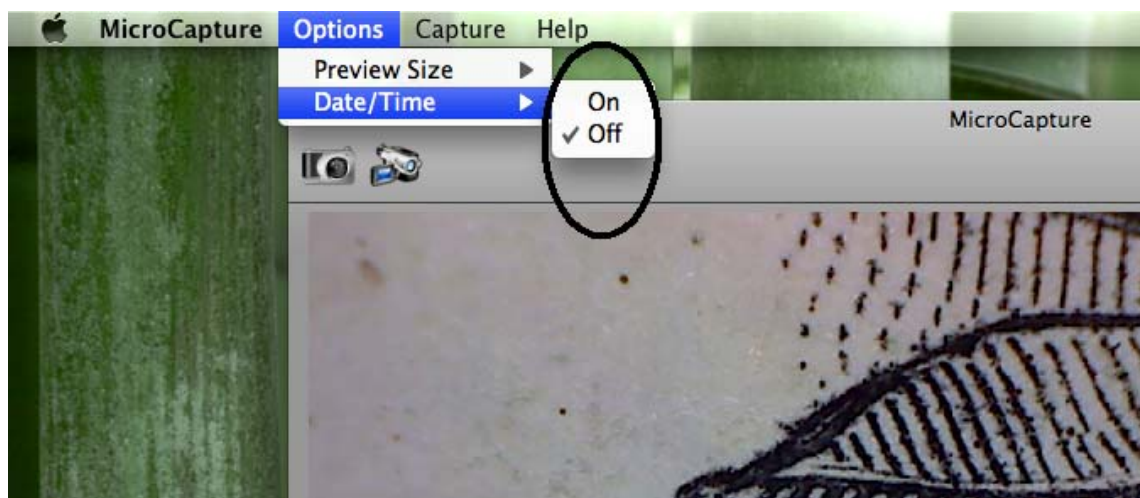
4. Change preview resolution

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.
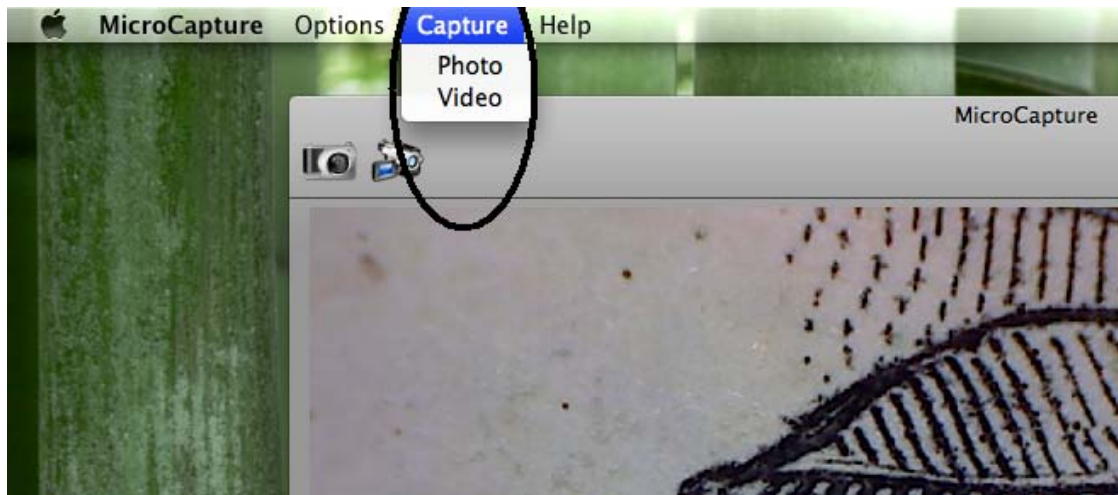
5. Date/Time

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

6. Photo capture

You can capture photo by:

- Choosing *Capture/Photo*

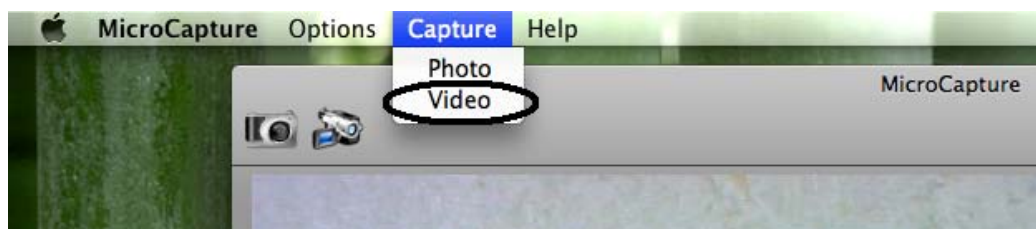- clicking photo capture icon

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 appear as thumbnails on the right side of the preview window under Video tab.
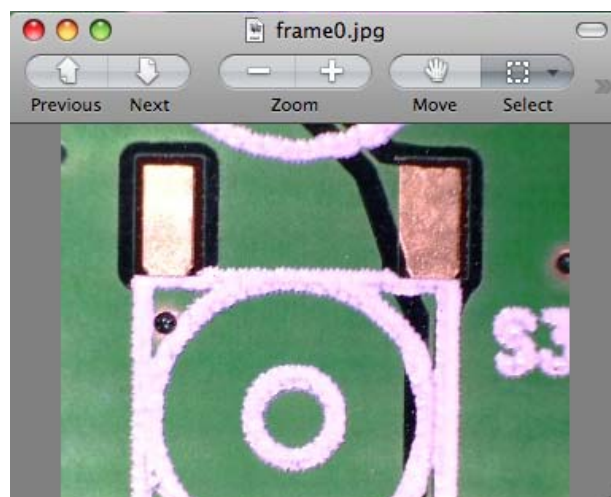
8. Photo & Video editing

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

1)   photo

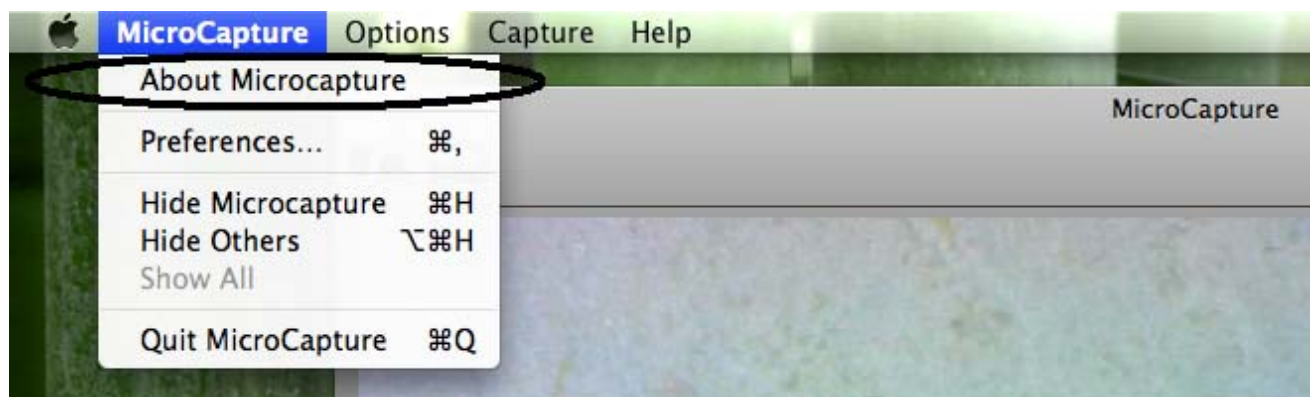Double click a photo thumbnail to open in the main preview window

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

2) Video

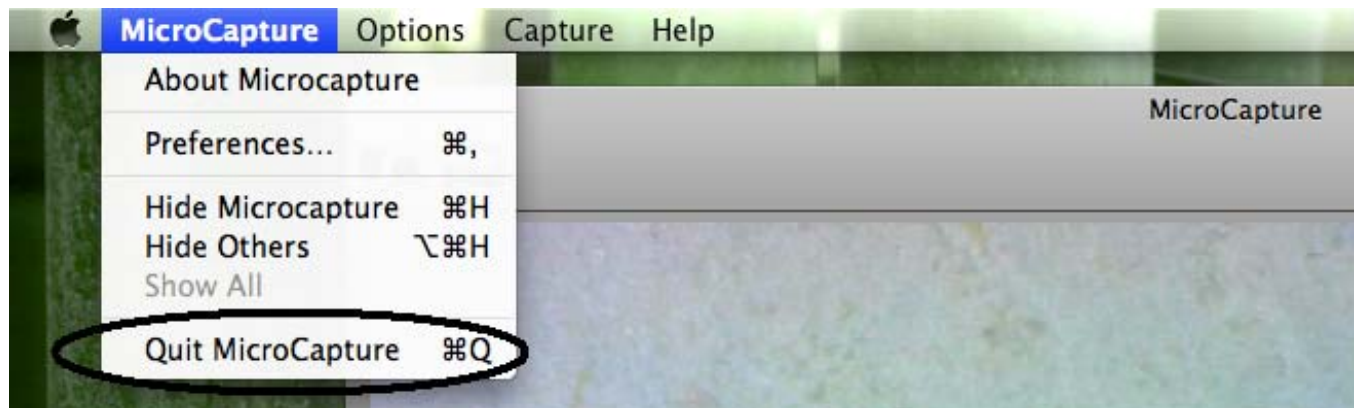Click a video clip thumbnail, the video will play automatically.

9. Help info

By choosing *About MicroCapture*, you can get help info from your local agent.

10. Quit MicroCapture

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

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.