



Instruction Manual

Document Camera Controller Software

Image Mate

for Mac OS X

Please read this manual carefully before using Image Mate.

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Introduction

Welcome!

Thank you very much for purchasing this Document Camera from ELMO Co., Ltd.

This Help section will guide you through using Image Mate, the Document Camera controller software.

Please read this Help section carefully before using Image Mate.

Notes

- The sample screens shown in this manual may differ from those you see while using our software.
- When this device is in SD Mode, Image Mate may not operate correctly on some models. Be sure to set the device to a mode other than SD mode.
- When USB Mode is set to Mass Storage on this device, Image Mate will not operate correctly. Be sure to set the mode to Application Mode.
- For the latest instruction manual, installation manual and firmware information, go to the ELMO web site.
- When using Image Mate, be sure to refer to the instruction manual supplied with the device.
- Depending on the OS, Image Mate may not display the correct fonts.

Before Use

System Requirements

Your computer must meet the following requirements to use the applications.

Computer Model	Hardware with Mac OS X operating
OS	Mac OS X 10.5.8 Mac OS X 10.6.2
CPU	PowerPC G4, G5 Intel Core Duo, Xeon
RAM	512MB or more recommended.
Hard Disk	1GB or more
Display	1024 x 768 pixels or more Approximately 16.7 million colors
USB	Built-in USB port (Hi-Speed recommended)
Software	QuickTime 7.1.6
Document Camera	<ul style="list-style-type: none">• L-1ex / TT-02RX• L-1n / TT-02s <div>(For L-1n/TT-02s)<ul style="list-style-type: none">• You cannot change the size of the images used with Image Mate.• Operations may differ when the L-1ex/TT-02RX is connected.</div>

Attention:

- If a sound device cannot be used, some of the functions may not operate.

Installing/Uninstalling and Setting Up

Installing

1. Insert the CD into the PC (Personal Computer).
2. Double click the ImageMate.pkg in the CD Root folder->.Mac.
3. The installation program is launched. Proceed with the installation while following the instructions on the screen.



Setting Up

1. Connect the Document Camera to the computer with the supplied USB cable, and then turn on the power for the device.
2. Select the Image Mate icon and launch Image Mate.



Uninstalling

1. Drag the "Image Mate" folder and drop it into the trash.

Explanation of Screens and Buttons

Main Window

When the application is launched, the following Main Window appears.










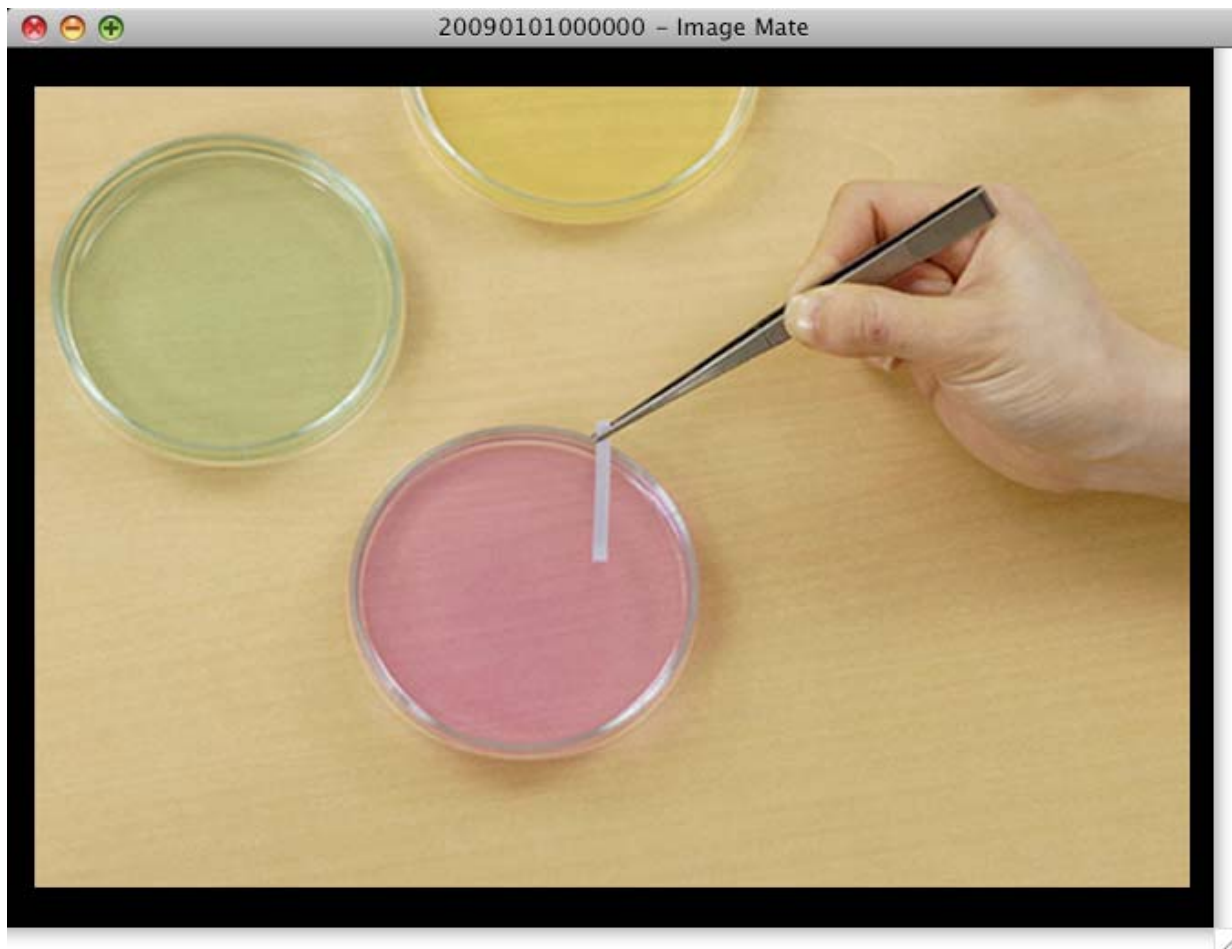
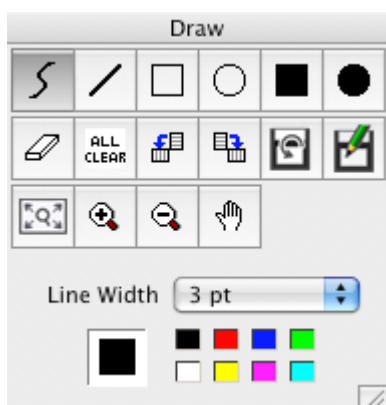
Icon	Details
	Open a still image or movie file created using Image Mate.
	Capture and display a still image from the Document Camera. You can also draw figures on the captured still image. “Image Display Window”
	Display the recording tool. “Recording Tool Window”
	Display images from the Document Camera in real time. “LIVE Image Display Window”
	Display the Document Camera remote control. “Document Camera Remote Control Window”
	Perform Image Mate settings. “Settings Window”
	Close the Main Window and exit Image Mate.

Image Display Window
















This function allows you to create a still image by capturing LIVE Images from the Document Camera. You can draw figures on the captured still image.

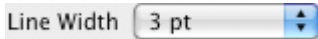





Refer to the following table for an explanation of the Image Display tools.



To draw, use the drawing tools.

Icon	Name	Details
	Free Hand Tool	Make free hand drawings.
	Line Tool	Draw a straight line.
	Square Tool	Draw a square shape.
	Square Shape Painting Tool	Paint a square shape.
	Round Tool	Draw a circular shape.
	Round Shape Painting Tool	Paint a circular shape.
	Eraser Tool	Erase objects you have drawn.
	Clear All	Erase all the objects you have drawn.
	Rotate Counterclockwise	Rotate in a counterclockwise direction.
	Rotate Clockwise	Rotate in a clockwise direction.
	Overwrite	Overwrite the current file and save.
	Save As	Save the image.
	Zoom In	Enlarge the image.
	Zoom Out	Reduce the image.
	Hand Tool	Enter Hand Tool mode.

Icon	Name	Details
	Line Width	Select the line width to be used for drawing.
	Eraser Size	Select the size of the eraser.
	Color	Select the color to be used for drawing.
	Minimize	Minimize the drawing tools.



Attention:



- For more details on drawing, refer to "[Drawing Figures on Still Images](#)".

Recording Tool Window

- This function allows you to record LIVE Images from the Document Camera and save them to your PC.

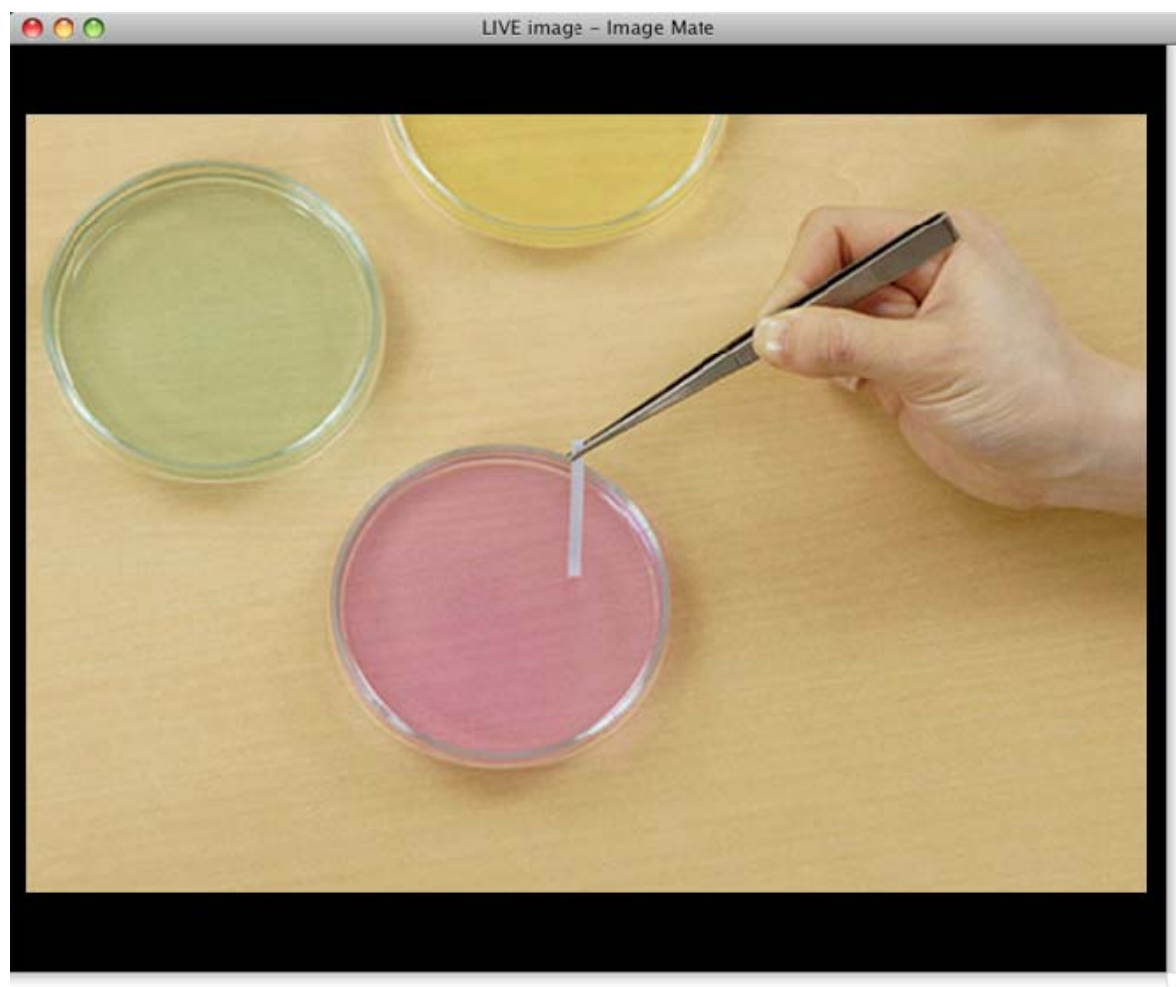


	Displayed during normal recording.
	Displayed during long-time recording.

Icon	Name	Details
	Start Recording	Start recording images.
	Stop Recording	Stop recording images.
Drive 00%	Drive Space Used	Display the amount of drive space used for the current recording.
00/00:00:00	Recording Time Elapsed	Display the amount of elapsed recording time. Days/Hours:Minutes:Seconds






LIVE Image Display Window

This function displays LIVE Document Camera images.



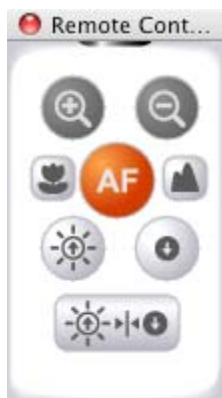
Refer to the following table for an explanation of the LIVE Image tools.











Icon	Name	Details
	Just Fit	Display at the optimum size for the current window.
	Zoom In	Enlarge the image.
	Zoom Out	Reduce the image.
	Hand Tool	Enter Hand Tool mode.
	Minimize	Minimize the LIVE Image tools.

Document Camera Remote Control Window

This function allows you to operate the Document Camera.



Icon	Name	Details
	Zoom In	Zoom in.
	Zoom Out	Zoom out.
	Focus (Near)	Focus near.
	Focus (Far)	Focus far.
	Auto Focus	Adjust the focus automatically.
	Brightness (Brighten)	Brighten the camera image.
	Brightness (Darken)	Darken the camera image.
	Reset Brightness	Set the brightness to the factory setting.

Attention:

- The digital zoom of the Document Camera cannot be operated with the Zoom In/Out functions.
- If the brightness setting of this device is set to Manual, the Reset Brightness function cannot be used.

Settings Window

Settings for Image Mate management functions


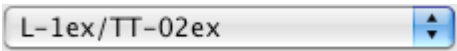
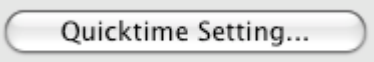
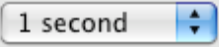
- Return each window to its normal position.
- Switch the image acquisition device.
- Perform recording settings

Settings to be performed before using long-time recording

- Save file format
- Set interval time

The screenshot shows a 'Settings' dialog box with the following sections and controls:

- Return all windows to their normal positions:** A 'Start' button.
- Image settings:**
 - Image size:** Three radio buttons for '1280 x 1024' (selected), '1024 x 816', and '640 x 512'.
- Select device:** A dropdown menu showing 'L-1ex/TT-02ex'.
- Recording settings:** A 'Quicktime Setting...' button.
- Long-time recording settings:**
 - File format:** Two radio buttons for 'MOV' (selected) and 'JPEG'.
 - Interval time:** A spinner box set to '1 second'.
 - A 'Quicktime Setting...' button.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

Display	Details
	Return each window to its normal position.
Image size <input checked="" type="radio"/> 1280 x 1024 <input type="radio"/> 1024 x 816 <input type="radio"/> 640 x 512	Set the size of the images used with Image Mate. <div> <ul style="list-style-type: none"> • The display may differ depending on the status of the Document Camera. </div>
	Select the Document Camera connected to the PC.
	Display the Recording Settings or Long-time Recording Settings Window.
File format <input checked="" type="radio"/> MOV <input type="radio"/> JPEG	Select the saved file format for long-time recording. “Record Using Long-Time Recording”
Interval time 	Set the interval time for shooting images in long-time recording. Select from 1 second, 3 seconds, 5 seconds, 10 seconds, 30 seconds, 1 minute, 3 minutes, 5 minutes, 10 minutes, 30 minutes, 1 hour, 3 hours, 6 hours, 12 hours, or 24 hours.

Recording

About Recording

There are two recording methods. You can use “Normal Recording”, which records LIVE Images as a movie ([“Record Using Normal Recording”](#)), or you can use “Long-Time Recording”, which records images at times (interval times) set beforehand ([“Record Using Long-Time Recording”](#)).

In “Normal Recording”, audio from the microphone connected to the PC can be recorded along with the LIVE Image recording.

In “Long-Time Recording”, you can select a recording method from continuous or still image. Audio from a PC cannot be recorded during long-time recording.

Attention:

- Depending on the PC's performance and load, you may not be able to record images and audio normally.
- Depending on the PC's performance and image scenes, the images and the audio may not be synchronized.
- You may not be able to play back movies recorded using Image Mate under other environments.
- The recording time in Recording settings may differ from the time the movie was created.

Record Using Normal Recording

LIVE Images are recorded as a movie.

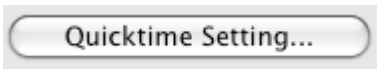
Audio from a microphone connected to the PC is recorded.

1. Open the Recording Settings Window



Select from the [Main Window](#).

2. Perform recording settings



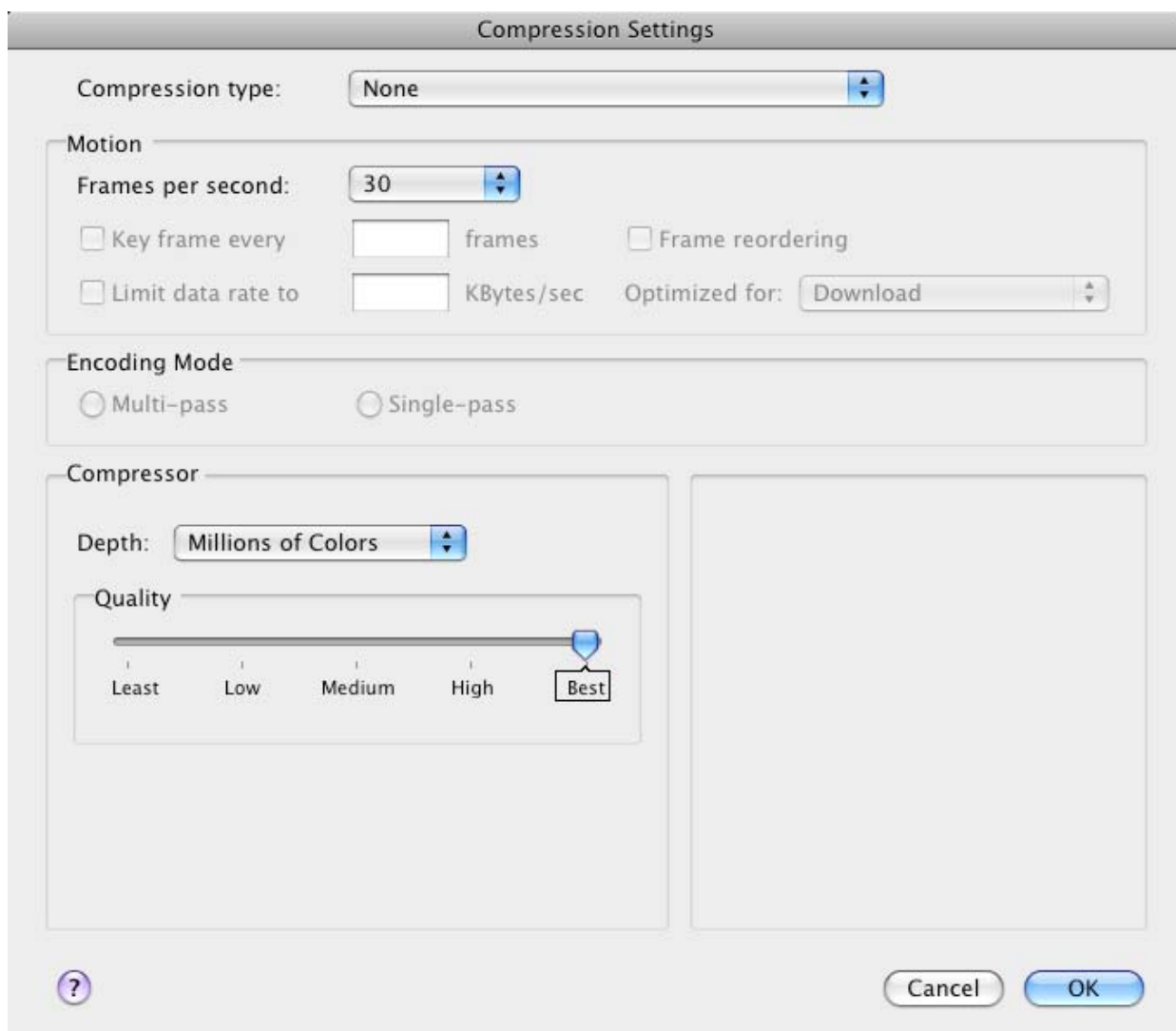
Select in Recording settings.

3. Perform compression settings


- Select the type of compression. (We recommend selecting “No”.)
- Set the frame rate to “30”.

Attention:



- For more details on each of the setting values, refer to the Help section of QuickTime Player.



4. Open the Recording Tool Window

Select  from the [Main Window](#).

5. Start recording



Select  from next to the  symbol.



6. Save the movie file

- Select the target destination and file name and then save the file.
- Recording starts.

7. Stop recording

Select  from next to the  symbol.


Record Using Long-Time Recording

You can record at times (interval times) set from the [Settings Window](#) beforehand.

You can select a recording method from continuous or still image.

Audio from a PC cannot be recorded.

1. Open the Settings Window

Select  from the [Main Window](#).

2. Set continuous or still image

- Set the image size.
- Select the continuous or still image format from File format.
- Set the interval time.

3. Perform recording settings

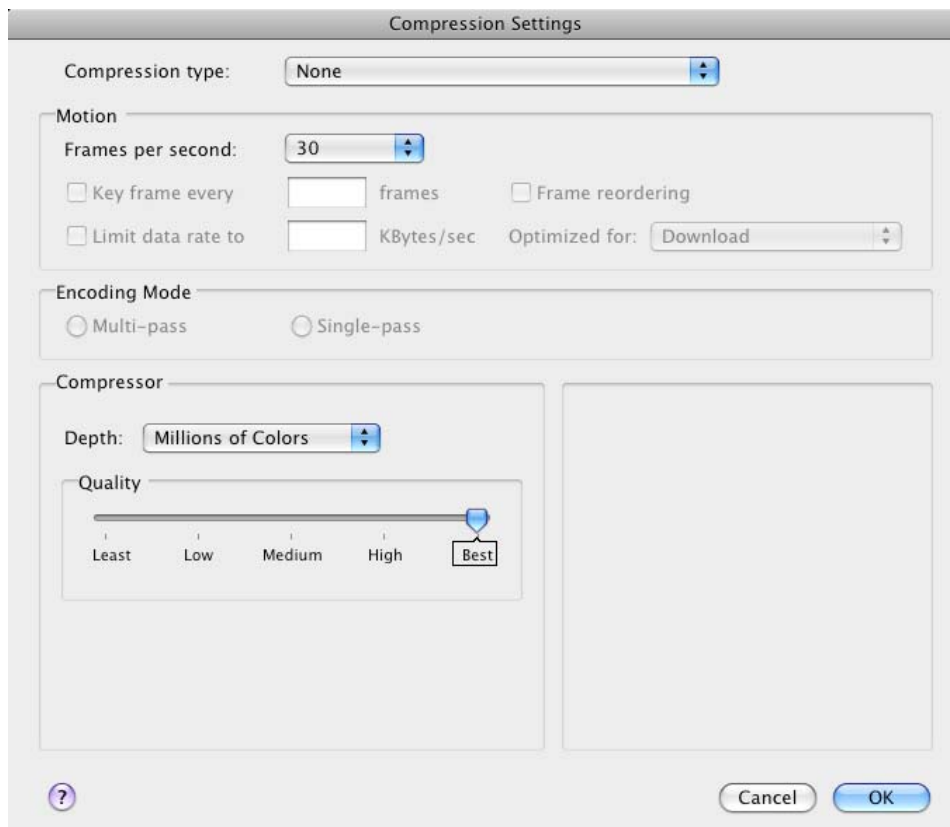
If MOV is selected, select  in Long-time Recording settings.

4. Perform compression settings


- Select the type of compression.
(We recommend selecting “No”.)
- Set the frame rate for playback.

Attention:



- For more details on each of the setting values, see the Help section of QuickTime Player.



5. Open the Recording Tool Window

Select  from the [Main Window](#).

6. Start recording



Select  from next to the  symbol.



7. Save the movie file

- Select the target destination and file name and then save the file.
- Recording starts.


8. Stop recording

Select  from next to the  symbol.

Watching a Recording

Playing Back Recorded Images

1. Select the playback file

Select  from the [Main Window](#), and then select the file you want to play back.

2. Play back the file




Attention:

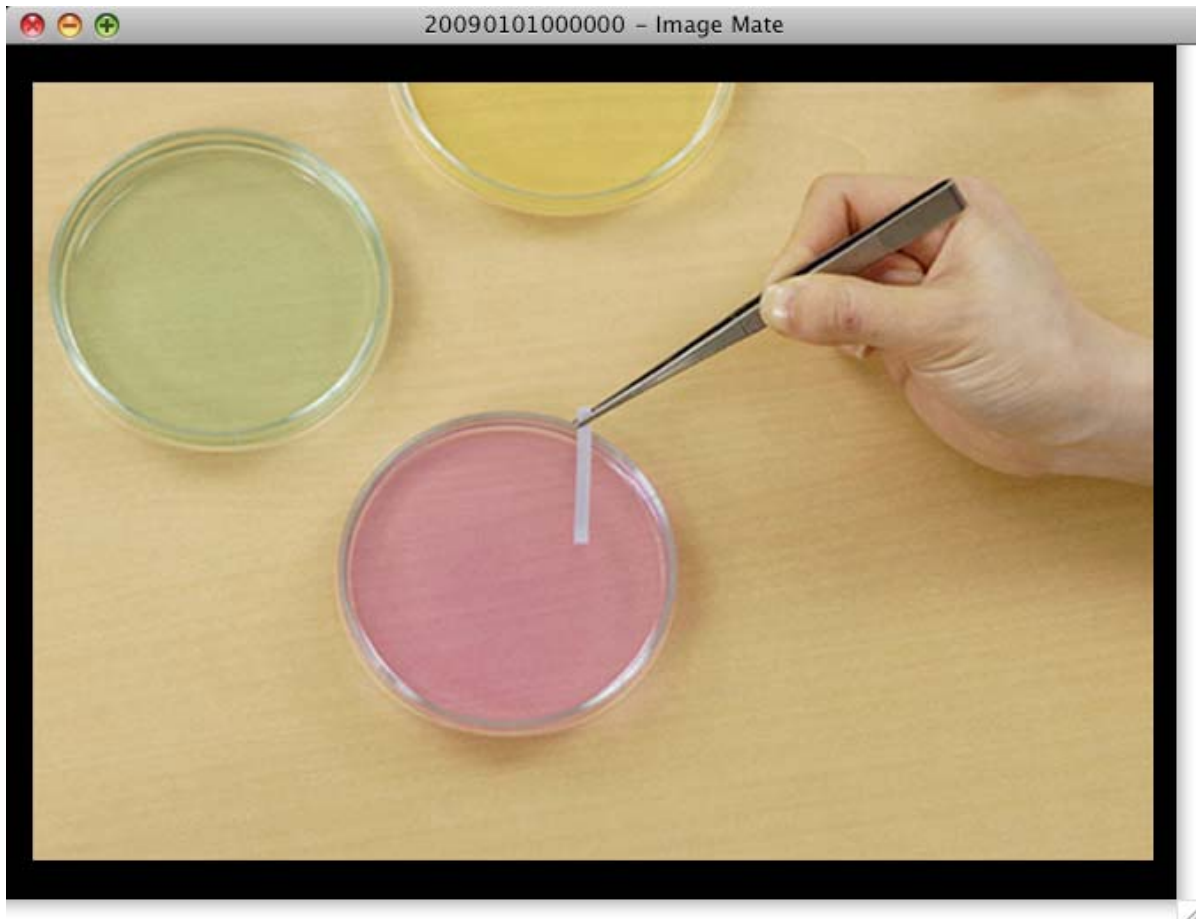
- Depending on the PC's operating environment and the file type, the file may not be played back correctly.

Using the Drawing Tools

Displaying a Still Image

1. Select the still image file


Select  from the [Main Window](#), and then select the file you want to display.
The selected still image file is displayed.

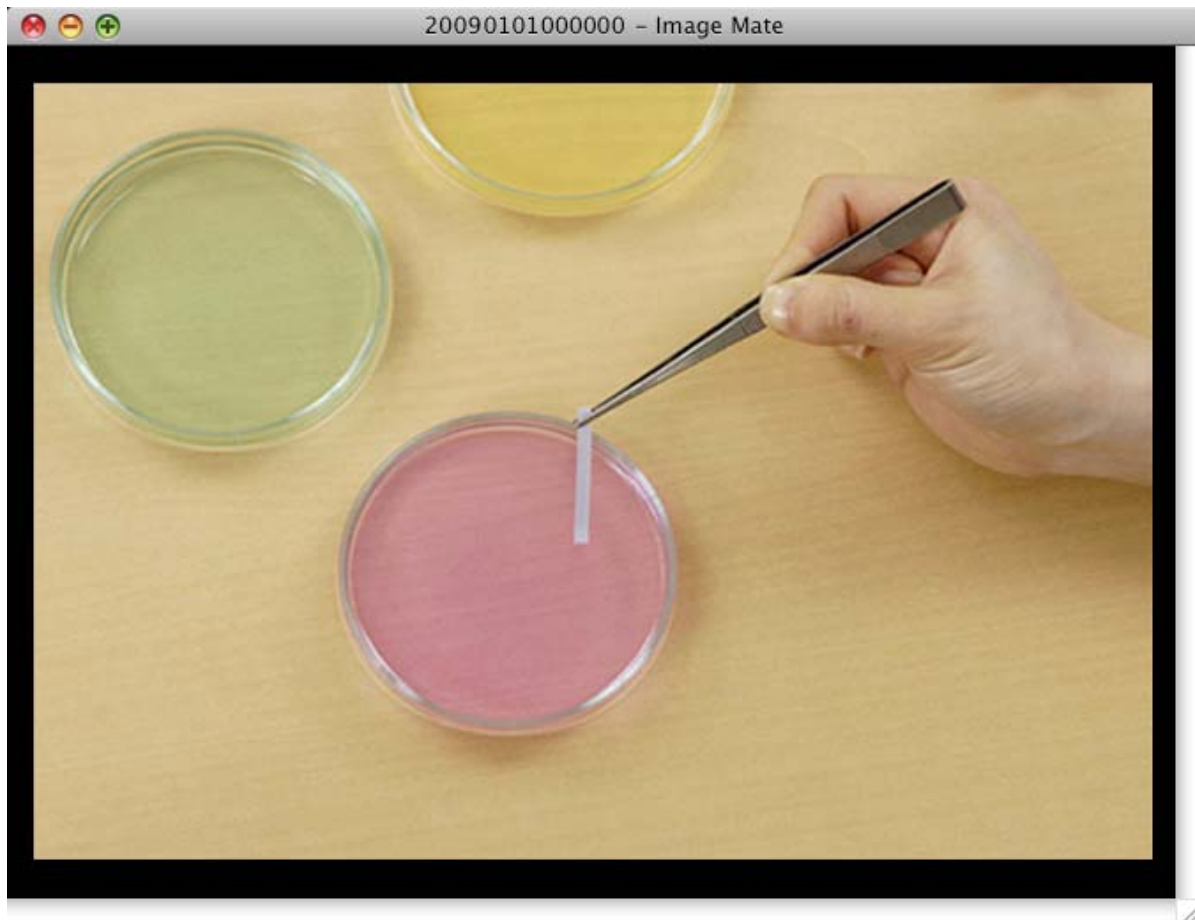


*For more details on drawing, refer to "[Drawing Figures on Still Images](#)".

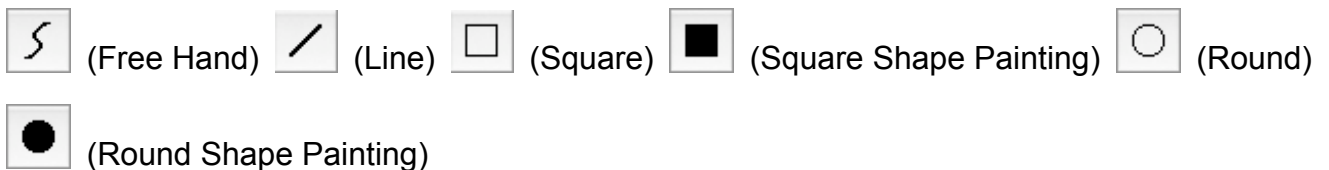
Drawing Figures on Still Images

You can draw figures on images captured and displayed as .jpeg or .bmp images by the Document Camera.

1. Capture an image with the Document Camera, or select  , and then select the still image file.



2. Select a drawing tool



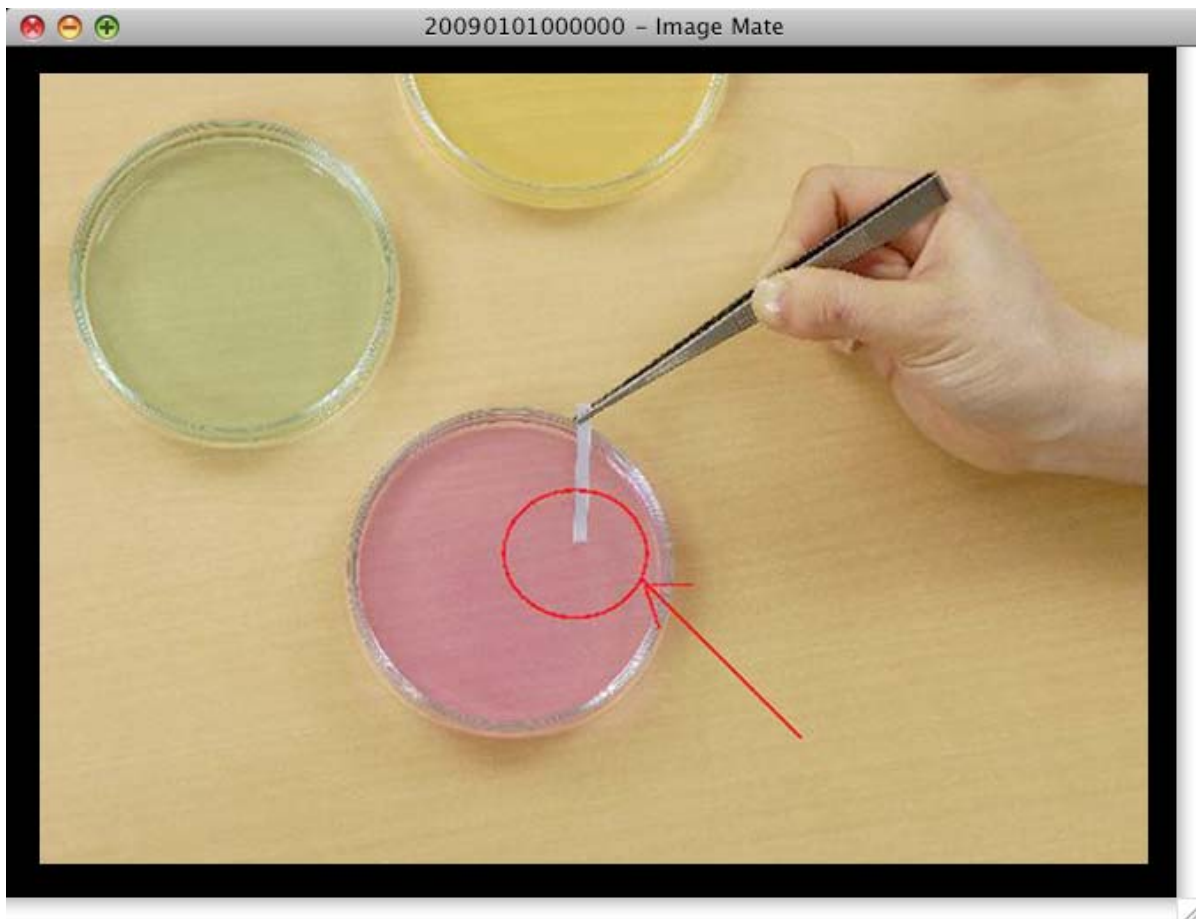
3. Select the line width

Select

4. Select the color



5. Draw the figure



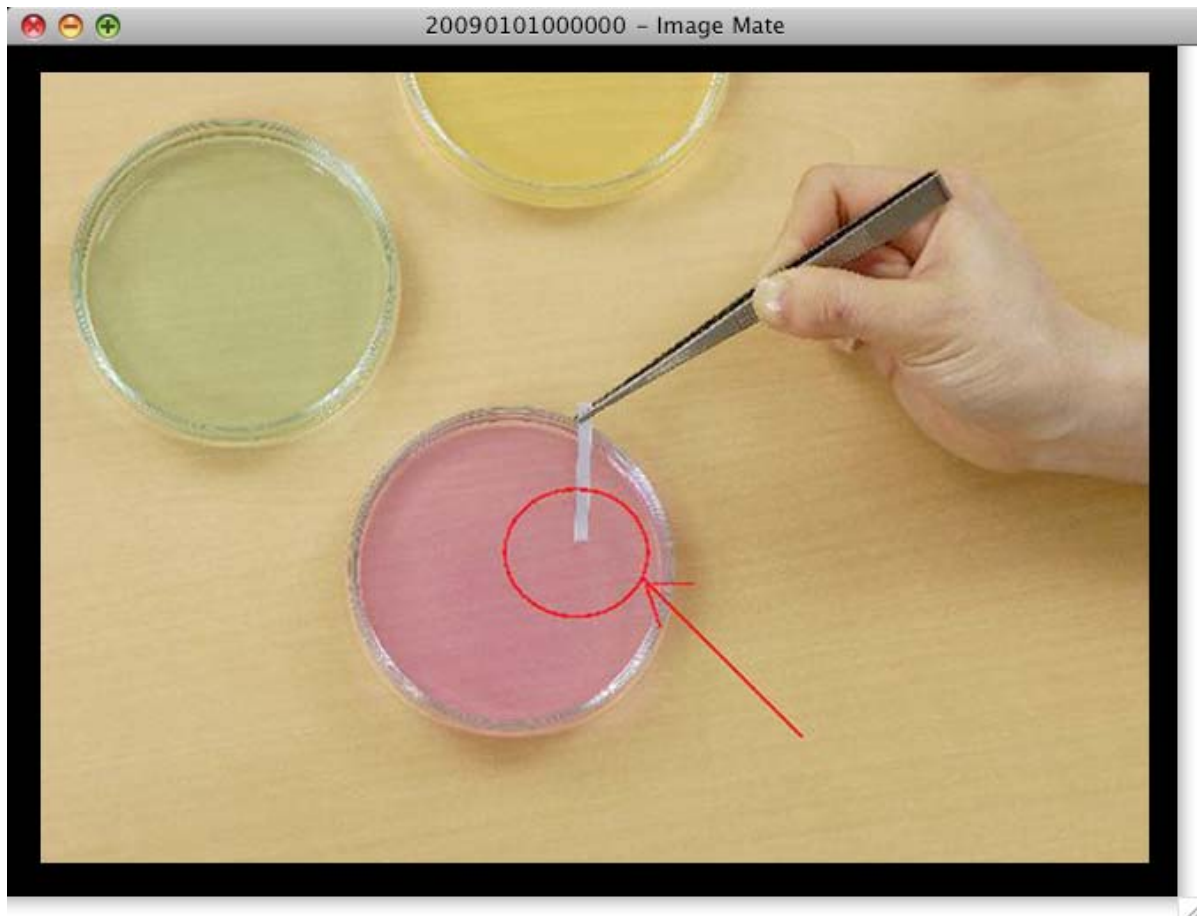
Deleting Drawings

You can erase figures you have drawn on still images. You can erase either partially or completely (Clear All).

Drawings on still images that have been saved cannot be erased.

■ When Erasing Partially

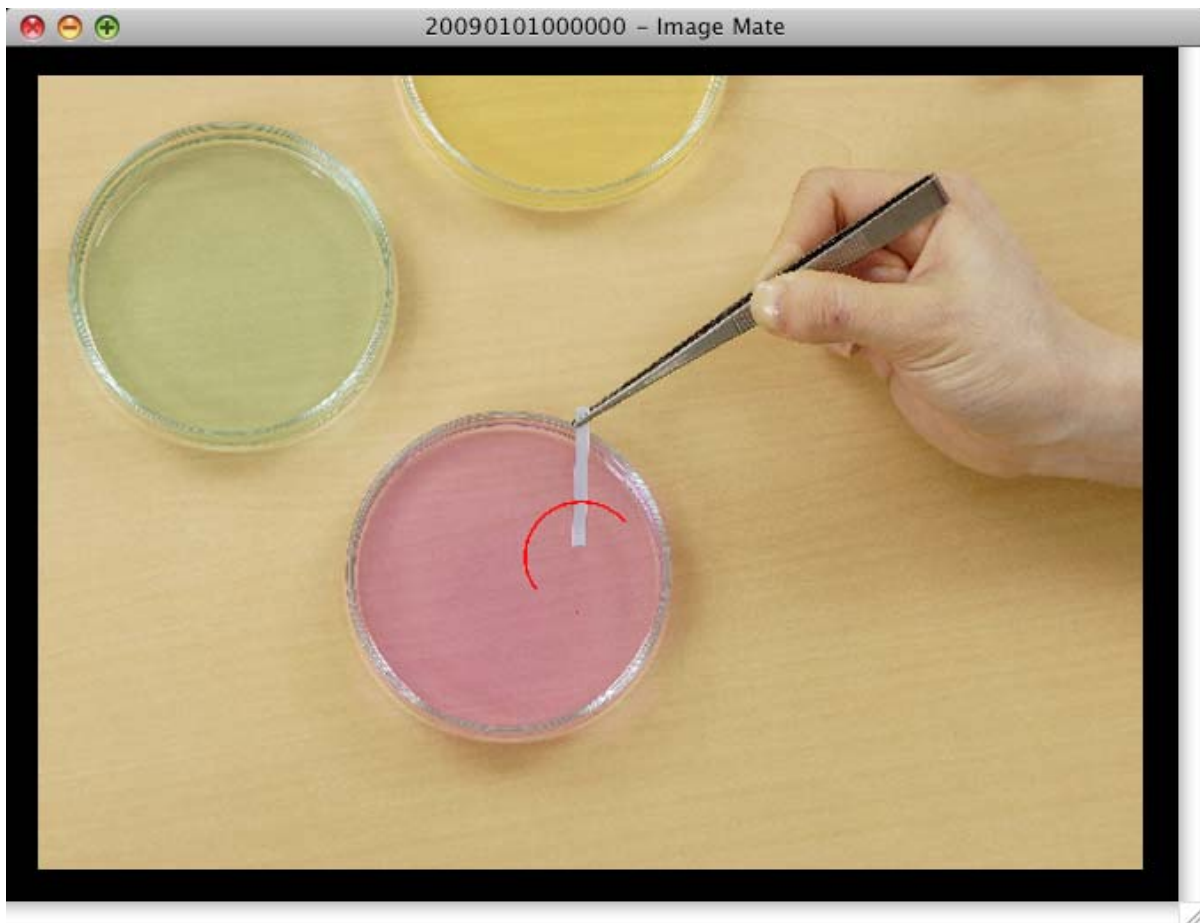
1. Select 



2. Select the size of the eraser

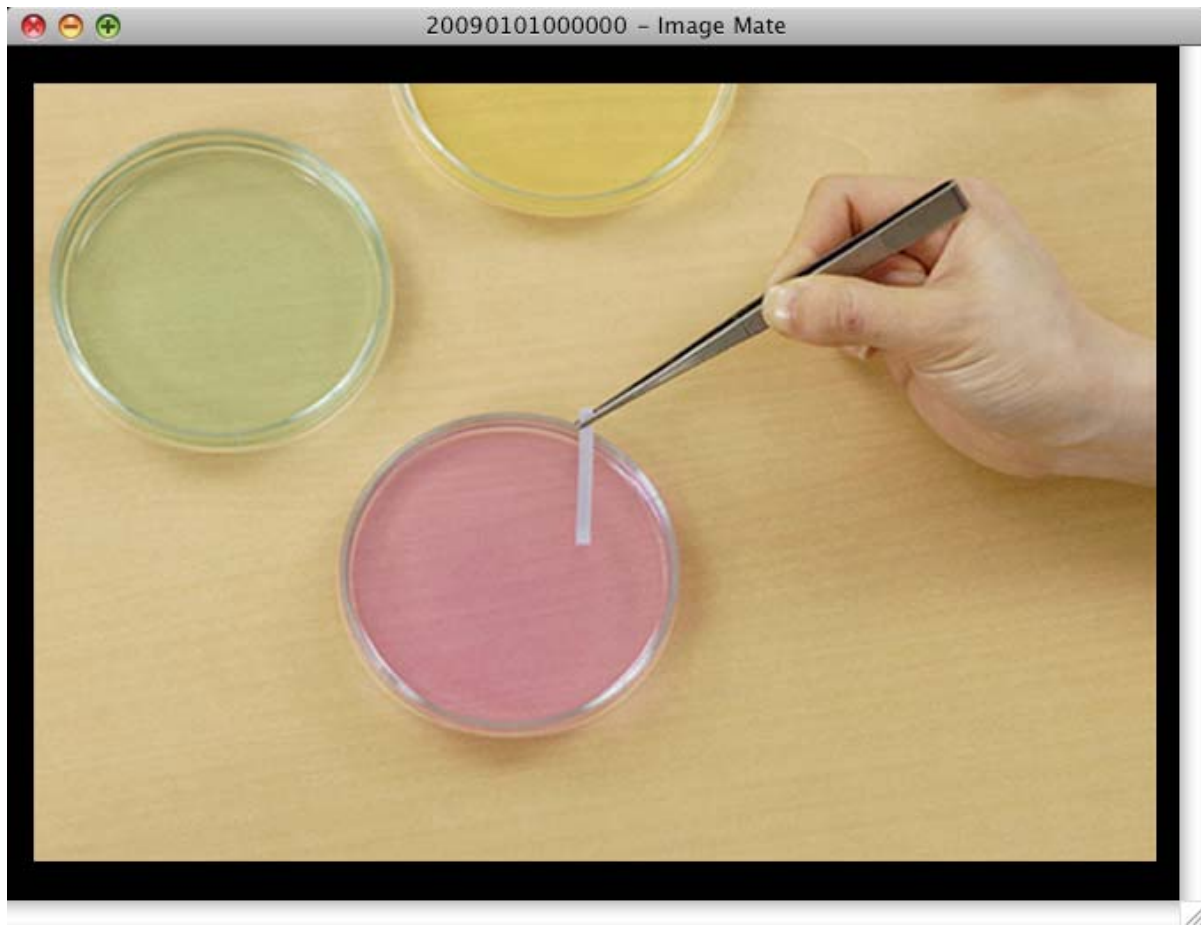


3. Erase the drawing



■ When Erasing Completely (Clear All)

1. Select 



All the drawings are erased.

Troubleshooting

Before Contacting Support

Situation	[The Document Camera is not connected] is displayed in the Main Window.
Cause	The power for the device is not turned on, or the cable is not connected.
Solution	Turn on the power for the device. Check the connection between the device and the computer. Check that the operating mode on the device is correct.

Reference

Disclaimer

- The contents of this manual and our software are subject to change without prior notice.
- Our software may not function as intended due to compatibility issues with the peripheral devices and existing software.
- ELMO Co., Ltd. cannot be held responsible for either direct or indirect damages suffered by users while using our software.

Trademarks

- Image Mate is a trademark or registered trademark of ELMO Co., Ltd.
- Adobe and Photoshop are registered trademarks of Adobe Systems Incorporated.
- Intel and Pentium are registered trademarks of the Intel Corporation.
- Adobe, Adobe Reader and Adobe Flash Player are registered trademarks or trademarks of Adobe Systems Incorporated in the U.S.A. and other countries.
- Apple, Apple logo, Mac, MacOS, Macintosh, and QuickTime are trademarks of AppleInc. registered in the U.S.A. and other countries. Mac is the service mark of AppleInc.
- Other product and corporate names not mentioned above may be trademarks or registered trademarks of their respective companies.

Acknowledgements and Copyrights

- This software is based in part on the work of the Independent JPEG Group.

File Conversion

Using File Conversion

File Conversion converts selected files into an image format that can be read by the SD card in the device.

The source file formats are BMP and JPEG.

Select menu -> Tool -> File Conversion, to display the following window.

The screenshot shows a 'File Conversion' dialog box. It has a title bar with the text 'File Conversion'. Below the title bar, there are two main sections: 'Source' and 'Destination'. The 'Source' section contains two radio buttons: 'File Select:' (which is selected) and 'Folder Select:'. Each radio button is followed by a text input field and a 'Browse...' button. The 'Destination' section contains a text input field and a 'Browse...' button. At the bottom of the dialog, there are two buttons: 'Convert' and 'Close'.

Item	Details
File Select	Select the source file to be converted.
Folder Select	Select the source folder containing the files to be converted. All files in the specified folder are converted. <ul style="list-style-type: none">Files in the subfolders in the specified folder are not converted.
Destination	Select the folder in which to save the converted images.
Convert	The source file selected using File Select or Folder Select is converted.
Close	Exit File Conversion.