

ImageMouse Plus™ Digital Retrieval System User's Guide

www.imagemouse.com

July 26, 2000

Declaration of Conformity

(according to ISO/IEC Guide 22 and EN 45014)

We,

Anacomp[®] Incorporated
12365 Crosthwaite Circle
Poway, CA 92064, USA

declare that the following product

DatagraphiX ImageMouse Plus Digital Retrieval System

to which this declaration relates, is in conformity with the applicable EC Directives, harmonized standards, and other normative requirements.

Low Voltage Directive 73/23/EEC of 19 February 1973 as Amended by 93/68/EEC

IEC 60950 2nd edition, 1991 + A1, 1992 + A2, 1993 + A3, 1995 + A4, 1996

EMC Directive 89/336/EEC

EMC: EN50082-1 (1997) incorporating the following:

EN55022 (1994) / CISPR-22 (1993) Class "A"

EN61000-3-3 (1995) Flicker

EN61000-3-2 (1995) Harmonics

EN 55024: (1998) incorporating the following:

EN61000-4-2 (1995) Electrostatic Discharge (± 8 kV Air/ ± 4 kV Contact Discharge)

EN61000-4-3 (1995) RF Radiated Fields (3 V/m, 80-1000 MHz, 80% AM @ 1kHz)

EN61000-4-4 (1995) Electrical Fast Transients/Burst (± 1 kV AC line; ± 0.5 kV I/O lines >3m)

EN61000-4-5 (1995) Lightning Surge (± 2 kV Common Mode / ± 1 kV Differential Mode)

EN61000-4-6 (1996) RF Common Mode (150kHz-80MHz, 3Vrms, 80% AM 1kHz)

EN61000-4-11 (1994) Voltage Dips/Short Interruptions (Reductions: 30% for 10msec, 60% for 100msec, and >95% for 5 secs.)

This product is intended to be supplied by a listed power supply rated at 5V DC, max. 3A.

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1115651-101, Rev. A

FCC Statement

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.

UL Statement

The equipment is intended to be supplied by a Listed external LPS power supply.

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Chapter 1

Introduction

This manual describes the DatagraphiX[®] ImageMouse Plus[™] Digital Retrieval System, which Anacomp[®], Inc. developed. It enables you to digitize and display a roll-film image on your PC's monitor for further disposition.

What ImageMouse Plus Does

The ImageMouse Plus system enables you to:

- Digitally capture an image from either a:
 - 42X or 48X microfiche or jacket
 - 24X or 28X microfiche or jacket
 - Original negative or positive film
 - Diazo or vesicular duplicate film
 - Roll film (ImageMouse Plus only)
- Display that image on your PC's monitor
- Enlarge, mirror, rotate, crop, or reverse the polarity (negative, positive) of the image
- Save the image on your hard disk in either a JPEG, TIFF, BMP, or CMP graphics format

After you save the image as a graphic file on the hard disk, use the Windows' Paint program or another graphic utility program to further manipulate the image, such as enlarging, mirroring, cropping, and rotating.

- Output the finished image either to a printer, as an e-mail attachment, or by way of a FAX

Who Uses ImageMouse Plus

ImageMouse Plus users have access to either microfiche, cut microfilm, or roll film whose content they want to selectively either view, print, save as a graphics file, or send to a second party by way of e-mail or a FAX.

How To Use This Manual

You can read the contents of this manual chapter-by-chapter for information about:

- Installation
- Operation
- Frequently Asked Questions
- Troubleshooting

Manual Conventions

This manual does not contain basic computer usage and general navigation procedures for applications running under Microsoft ® Windows™ (such as opening menus, choosing commands, mapping drives, and so on). Refer to Windows documentation for these basic computer techniques.

Keyboard and Mouse Actions

The following conventions are used throughout this manual for specifying keyboard and mouse actions:

Described Action	Means
Type ENTER.	Type the word, ENTER, at the keyboard by holding down the <i>Shift</i> key, pressing keys E, N, T, E, and R, one after the other, then releasing the <i>Shift</i> key.
Press Enter .	Press and release the key labeled <i>Enter</i> .
Click Item	Place the mouse pointer on an Item and click the left mouse button.
Right-click Item	Place the mouse pointer on an Item and click the right mouse button.
Double-click Item	Place the mouse pointer on an Item and click the left mouse button twice, with a delay between clicks that is short enough so the clicks are not interpreted as two separate clicks.
Drag Here to There	Place the mouse pointer on the Here item, hold down the left mouse button, slide the mouse until the mouse pointer is on the There item, and release the button.
Press Key1+Key2	Hold down Key1 while you press and release Key2 .
Click Key+Item	Hold down a Key while you click an Item .

Text Attributes

Specific attributes are applied throughout this manual to clarify the meaning of the text, as shown:

Attribute	Means
Bold	Labels of items that you act upon, for example: From the <i>File</i> menu, click Print .
<i>Italics</i>	Labels of items in windows and dialog boxes, for example: In the <i>Directory</i> field, either type <code>c:\imagemouse</code> , or click Browse to specify a destination directory.
Courier Font	Messages displayed and text you type, for example: When the prompt, <code>Enter the path, appears, type c:\imagemouse</code> .
<i>Italicized Courier Font</i>	Generic place-holder name that you replace with the actual text, for example: Type <code>x:\imagemouse</code> , where <i>x</i> is either drive <code>c</code> or <code>d</code> .

Chapter 2

Installation

Before installing the DatagraphiX ImageMouse system, ensure that you possess a PC equipped, at a minimum, with:

- One Pentium-class CPU at 200 MHz (recommended: 400 MHz)
- 32 MB of RAM (recommended: 64 MB)
- 4 MB of video RAM (recommended 16 MB)
- One USB port (PCI-to-USB controller with Intel chipset recommended)
- One CD-ROM drive
- A keyboard and a PC mouse
- A 17-inch SVGA monitor
- A Windows-compatible 600-dpi (or higher) printer
- Either the Windows 98 Second Edition, NT Workstation 4.0, or 2000 operating system

and ImageMouse-specific components:

- One DatagraphiX microfiche tablet
- Either one 24X or 42X/48X DatagraphiX blue overlay grid
- One DatagraphiX image mouse
- One AC power cable
- One 5 VDC power adapter
- One USB cable
- One DatagraphiX ImageMouse Installation CD-ROM

Software Installation

To install the ImageMouse program on your PC:

1. Ensure that the ImageMouse is disconnected from the PC.
2. Turn on the PC.
3. When the Windows *Desktop* appears, insert the DatagraphiX ImageMouse Installation Software CD-ROM into the CD-ROM drive.

The setup wizard loads. See [Figure 2-1](#) on page 2-2.



Figure 2-1. Loading the Setup Wizard

The setup wizard automatically detects the version of Windows that is installed on your PC and displays a message to that effect—for example: It found version 98 Second Edition. See [Figure 2-2](#).

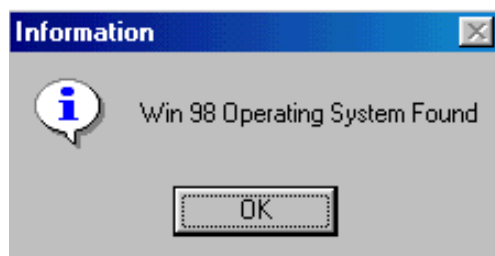


Figure 2-2. Operating System Detected Message Box

4. When the *Welcome* dialog box appears, click **Next**. See [Figure 2-3](#) on page 2-3.

Note: If the *Welcome* dialog box does not appear, invoke the Installation procedure manually by clicking (or, if necessary, double-clicking) the `setup.exe` item in the root folder of the CD-ROM.

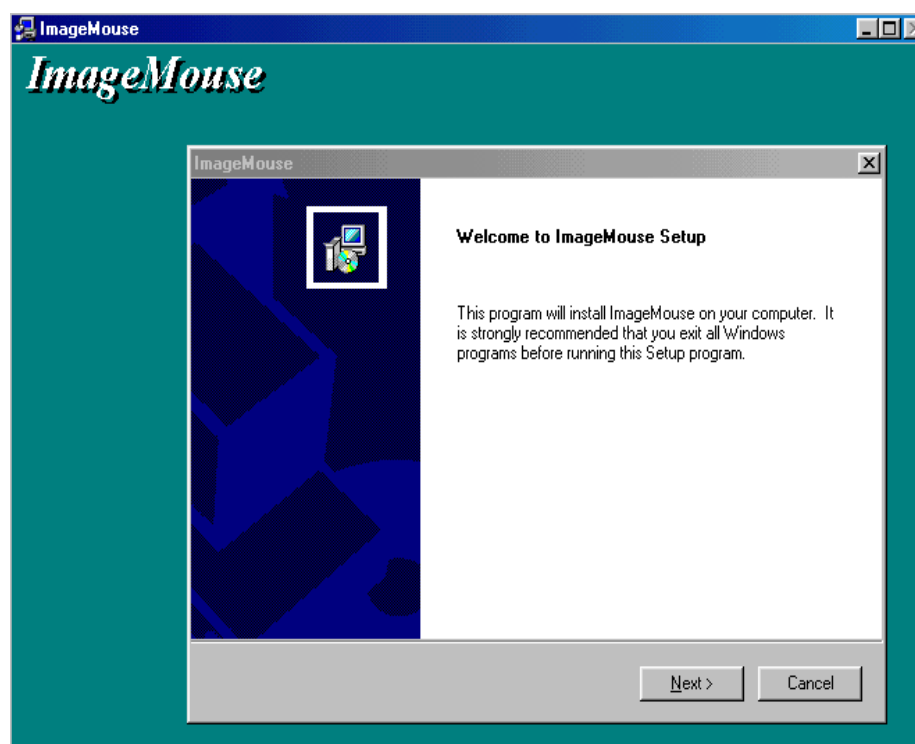


Figure 2-3. ImageMouse Welcome Dialog Box

5. When the *Software License Agreement* dialog box appears, read the Agreement and click **Yes**. See [Figure 2-4](#).

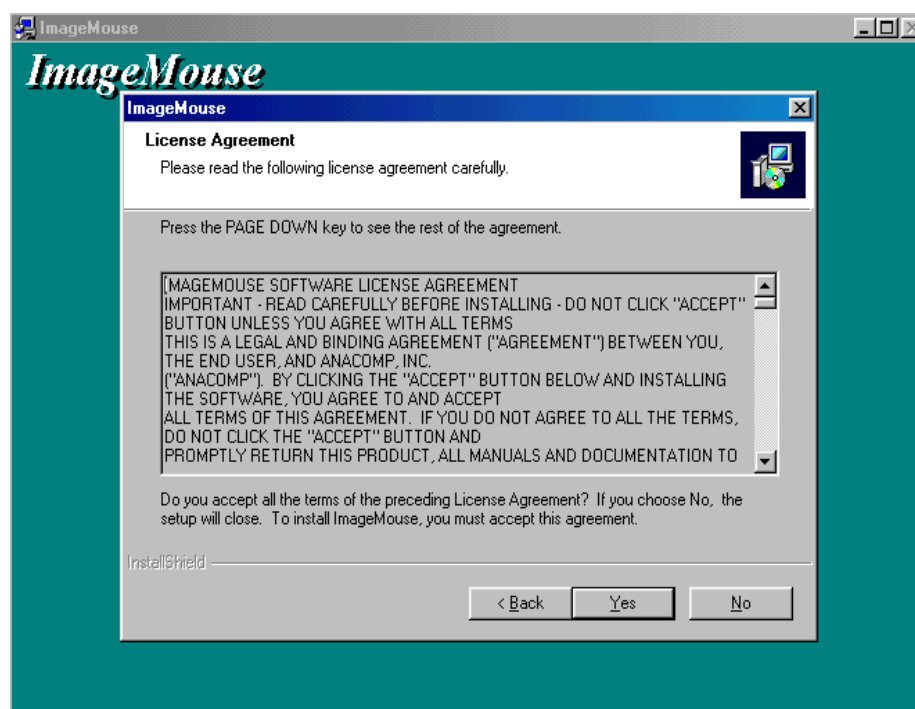


Figure 2-4. Software License Agreement Dialog Box

Note: If you do not accept the conditions of the Agreement, click **No**, in which case, the installation procedure stops.

6. When the *User Information* dialog box appears, type into their respective fields:
- Your name
 - Your company name
 - The serial number of the DatagraphiX ImageMouse (located on the under side of the ImageMouse)
- and click **Next**. See [Figure 2-5](#).

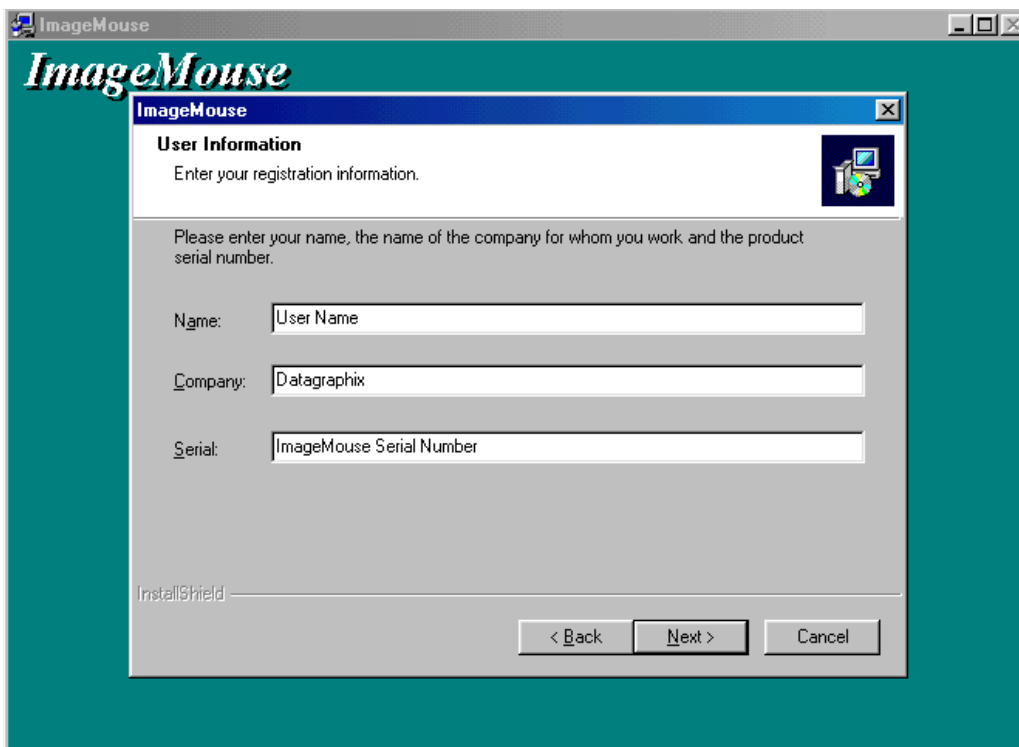


Figure 2-5. User Information Dialog Box

7. When the *Choose Destination Location* dialog box appears, accept the default *Destination Folder* and click **Next**. See [Figure 2-6](#) on page 2-5.

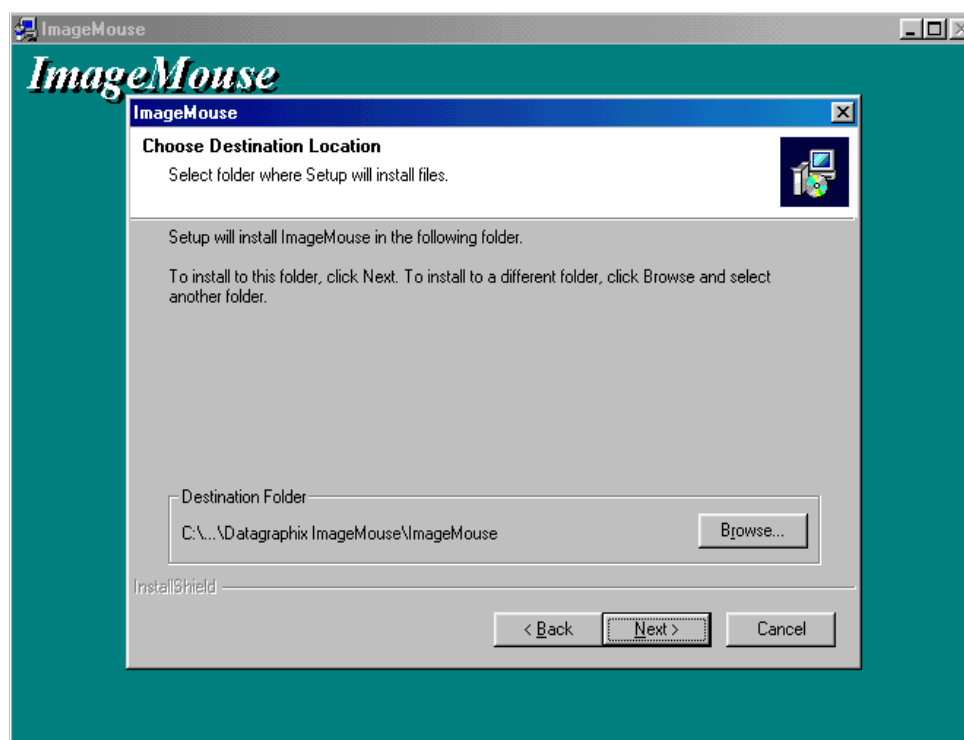


Figure 2-6. Choose Destination Location Dialog Box

8. The *ImageMouse* Installation-Progress window displays the percentage progress of the installation. See [Figure 2-7](#).

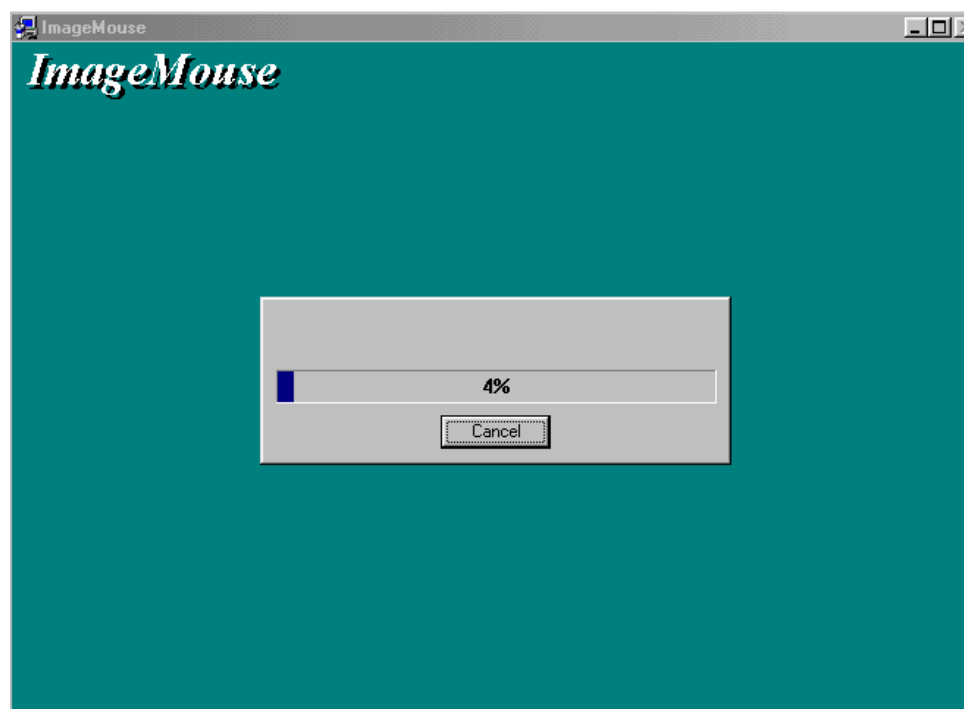


Figure 2-7. ImageMouse Installation-Progress Window (partial view)

9. When the ImageMouse program finishes installing, the *Setup Complete* dialog box appears. Select the *Yes, I want to restart my computer now* radio button. See [Figure 2-8](#).

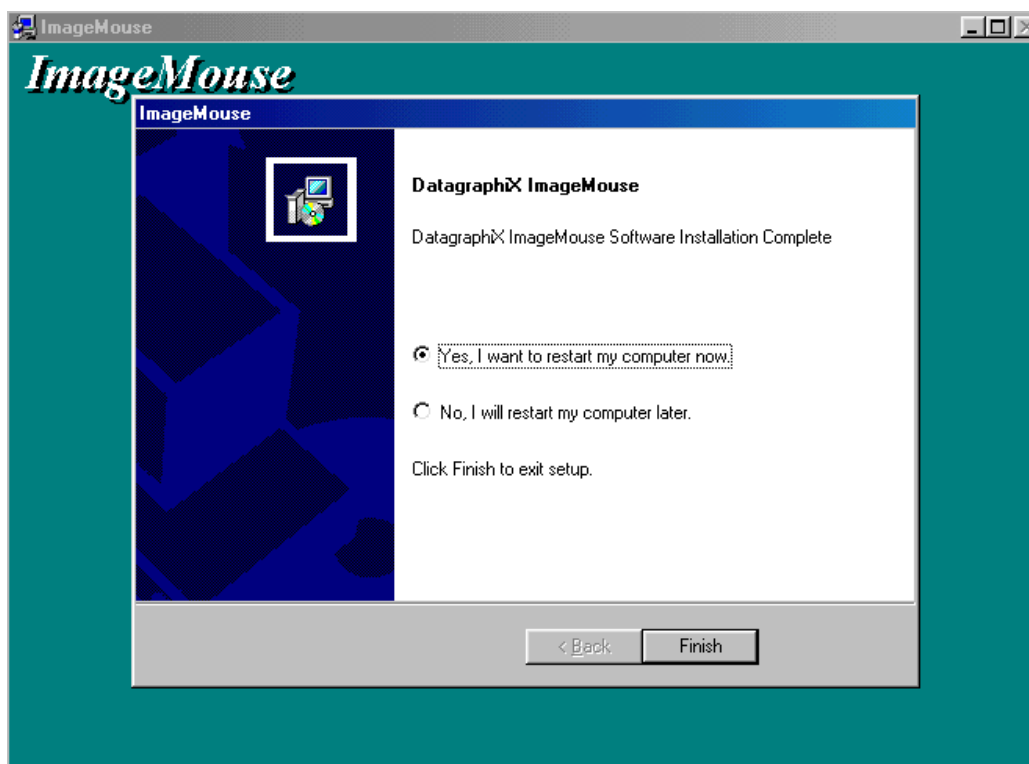



Figure 2-8. Setup Complete Dialog Box

10. Click **Finish**.

After your PC restarts, the ImageMouse DX icon, , appears on the the Windows' Desktop.

Hardware Installation

To install the ImageMouse Plus hardware, connect the ImageMouse Plus assembly's three cables, which are the:

- ImageMouse cable
- USB cable
- AC power cord

Note: When replacing the fuse, use a fast-acting 2.5 A (5 X 20mm) fuse (DatagraphiX part number 6533208-007)

To do so, perform the steps on the following page while referring to [Figure 2-9](#) on page 2-7.

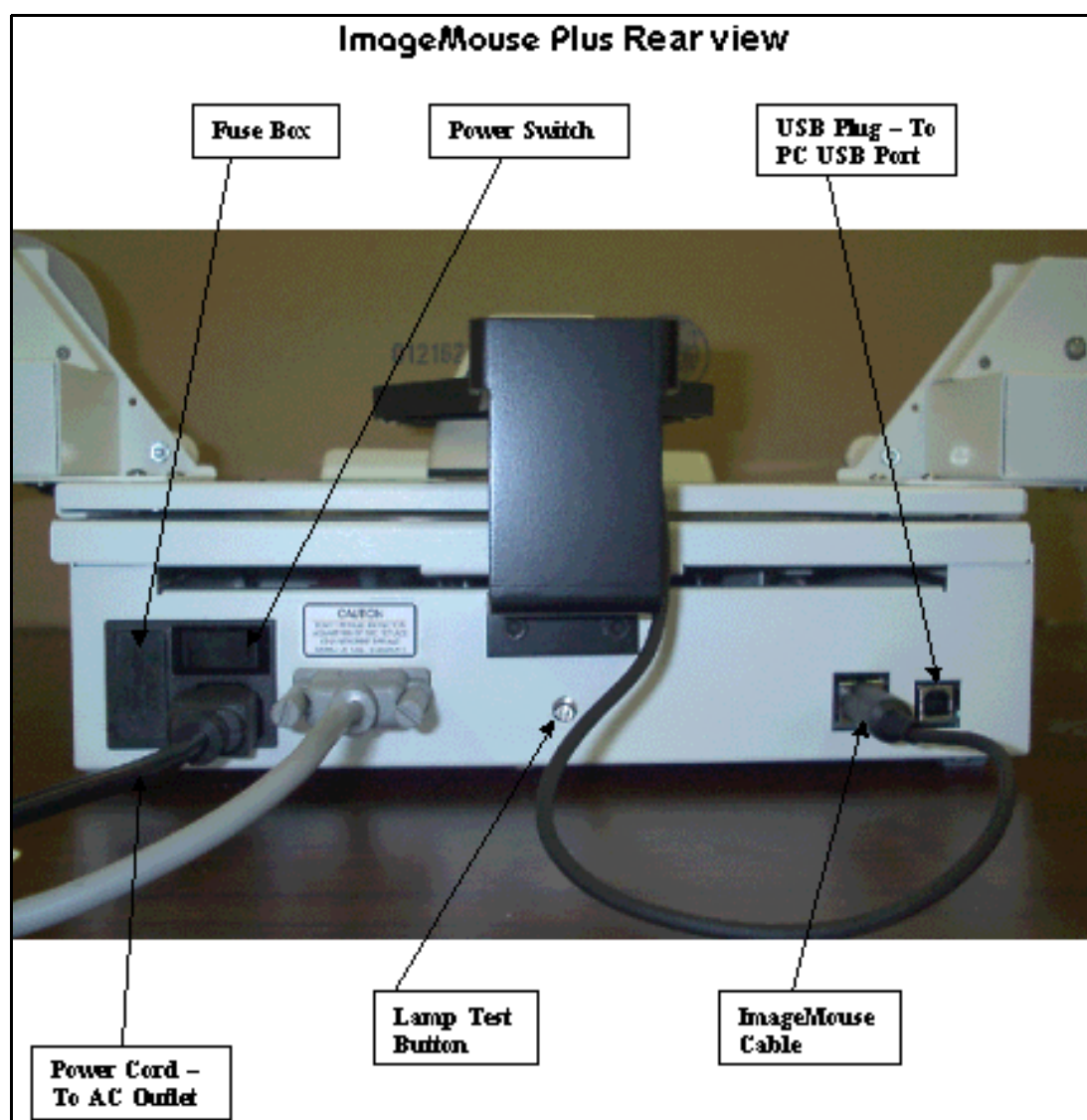


Figure 2-9. ImageMouse Plus Connector-Receptacle Depiction

1. Plug the ImageMouse cable's DIN connector into its receptacle at the back of the ImageMouse tablet.
2. Plug the appropriate end of the USB cable into a USB receptacle at the back of your PC.
3. Plug the other end of the USB cable into its receptacle at the back of the ImageMouse Plus unit.
4. Plug the male end of the AC power cord into the 117 VAC power supply.
5. Plug the female end of the AC power cord into the AC receptacle at the back of the ImageMouse Plus unit.
6. Turn on the ImageMouse Plus unit's power switch. At this point, the ImageMouse driver file normally loads automatically. In case it does not, a dialog box appears that prompts you to insert the Windows 98 CD-ROM into the CD-ROM drive for retrieval of this driver

file. Should this occur:

- Do not insert the Windows 98 CD-ROM into the CD-ROM drive. Instead, click **OK**.
- Browse to and highlight the file:
C:\Program Files\Datagraphix ImageMouse\ImageMouse\anacomp.inf
- Click **OK**. The ImageMouse driver file loads.

Note: To test the lamp, which is off when ImageMouse is not operating, momentarily press the lamp-test button. See [Figure 2-9](#) on page 2-7.

Chapter 3

Operation

The ImageMouse Plus operates in one of two modes and, after a period of inactivity, automatically revert to a third standby mode:

1. Fast-Search mode (default)
2. Full-Resolution mode
3. Power-Saving mode

ImageMouse Plus Depiction

[Figure 3-1](#) depicts the ImageMouse Plus.

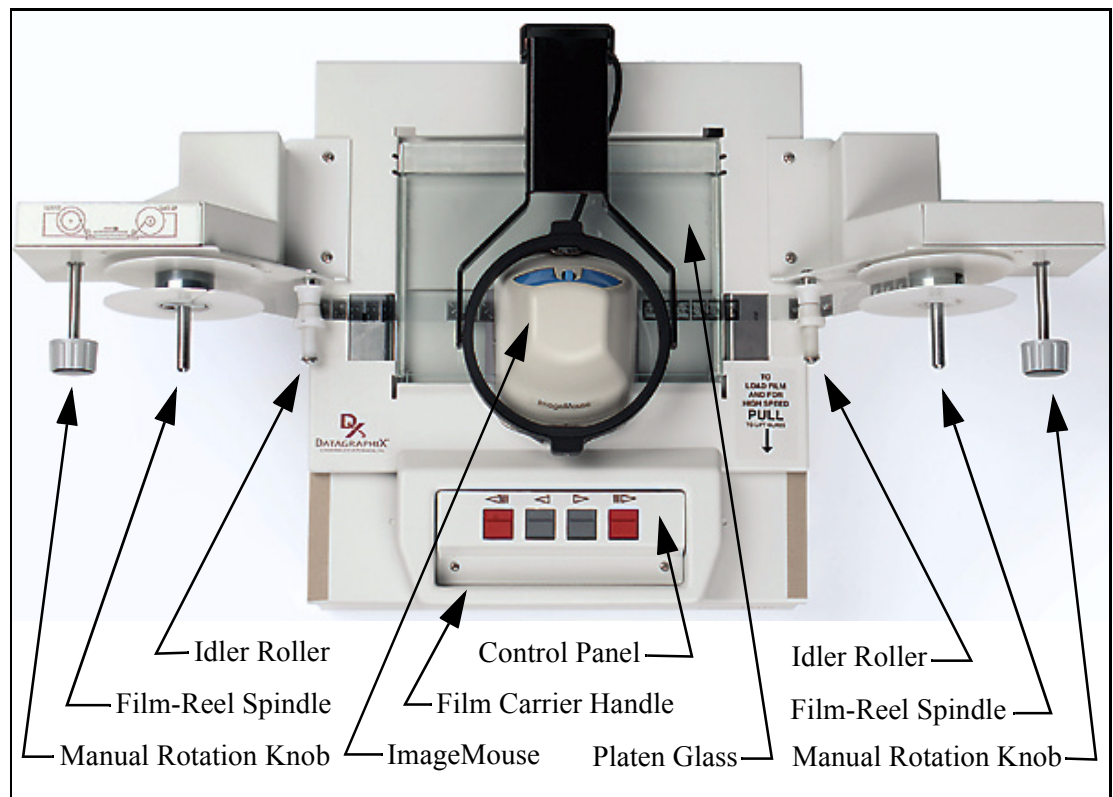


Figure 3-1. ImageMouse Plus Depiction

Startup

To start operation of the ImageMouse Plus:

1. Ensure that the ImageMouse Plus software and hardware are installed according to the instructions contained in Chapter 2.
2. As appropriate, load the cut microfiche/microfilm or roll film in one of the two following methods—ready for viewing:

Method 1: Cut Microfiche/Microfilm

- With the film-carrier handle, pull the film carrier out to open the upper platen glass. See [Figure 3-2](#).

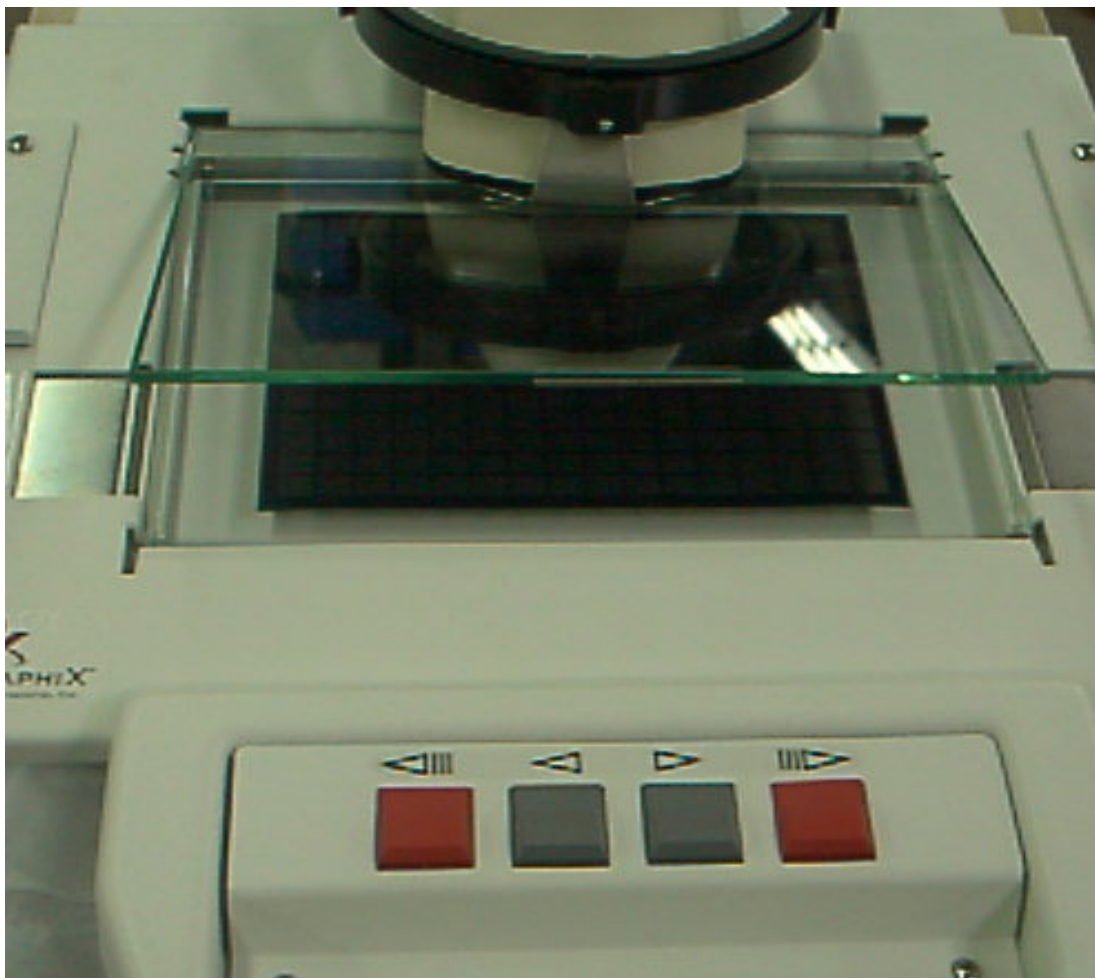


Figure 3-2. Open Upper Platen Glass of the ImageMouse Plus

- Place a cut microfiche or microfilm between the upper and lower platen glasses with the title toward the back of the glass and centered between its left and right edges.
- With the film-carrier handle, push the film carrier in to reclose the upper platen glass.

Method 2: Roll-Film

- With the film-carrier handle, pull the film carrier out to open the upper platen glass. See [Figure 3-3](#) on page 3-3.

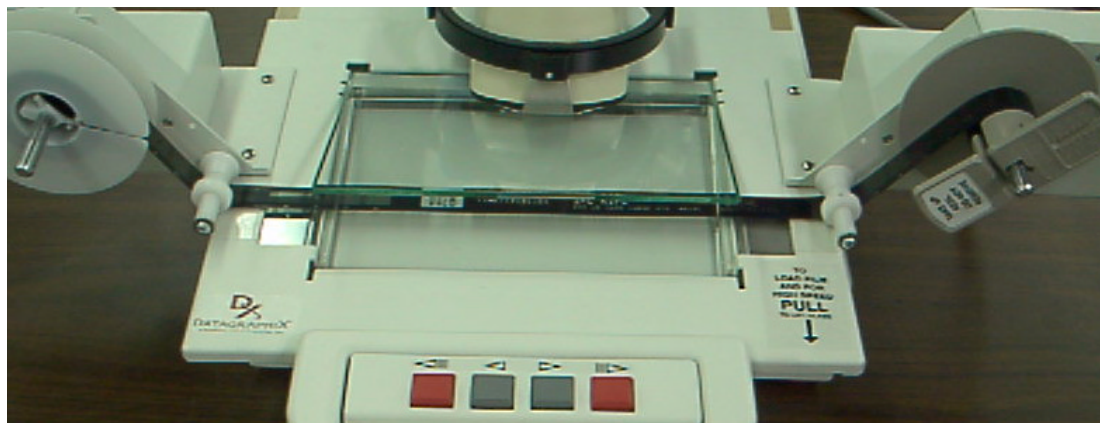


Figure 3-3. Loading a Roll of Film into the ImageMouse Plus

- Place a roll of film on either of the two film-reel spindles so that the film pays out from the top, pull the film through the space between the glass platens, and thread the film end onto an empty reel on the other spindle so that the reel takes in the film over its top. See [Figure 3-4](#).

Note: After the roll of film is in place, if the image is inverted on the monitor, remove the two reels of film and exchange their places on the film-reel spindles.

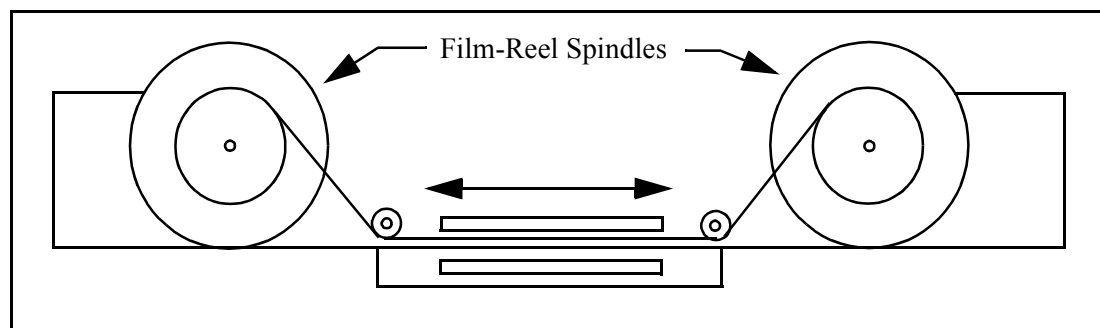




Figure 3-4. Film-Path Depiction

- With the film-carrier handle, push the film carrier in to reclose the upper platen glass.
3. On the Windows' *Desktop*, click (or, if necessary, double click) the **ImageMouse DX** icon, .

The ImageMouse Plus main window appears on the PC monitor and displays a picture of the ImageMouse unit while ImageMouse Plus initializes. Then, the USB activity indicator

 blinks, and ImageMouse Plus enters Fast-Search mode and displays the portion of the image that is beneath the ImageMouse's lens. See [Figure 3-5](#) on page 3-4.

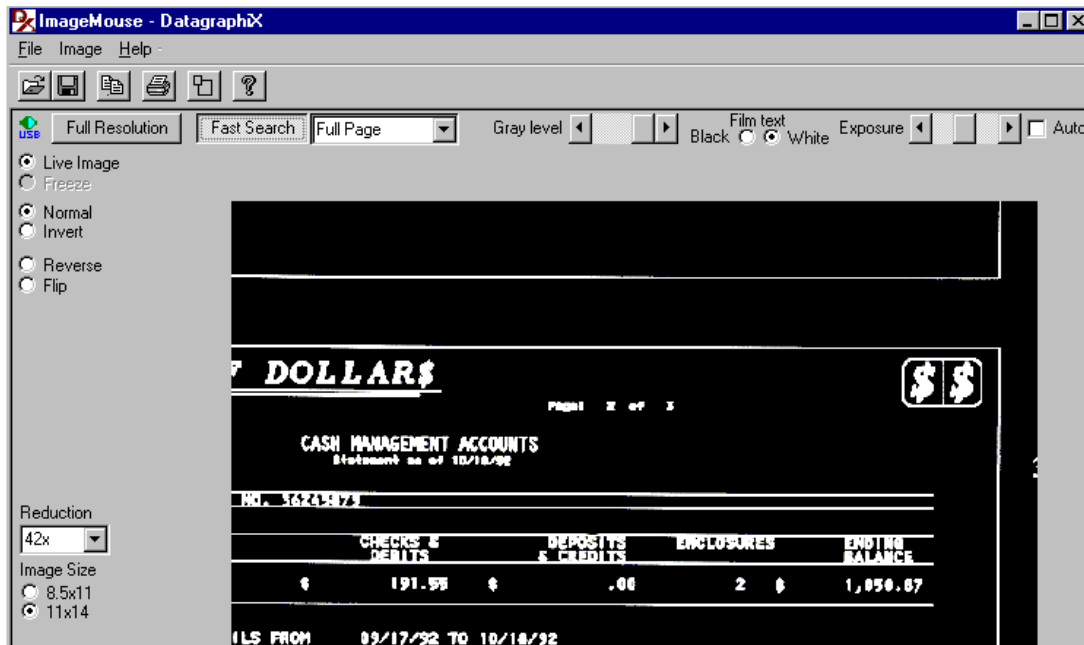


Figure 3-5. Example ImageMouse Plus Display After Initialization (Fast Search, Full Page)

Fast-Search Mode

Upon first operating ImageMouse Plus, the default mode is Fast-Search, which refreshes images faster than does the Full-Resolution mode.

Use this mode when moving the ImageMouse Plus to search for a particular page or for adjusting exposure, background, and image focusing.

Note: While in the Full-Resolution mode, you can reinvoked the Fast-Search mode by pressing the **Backspace** key. You can toggle between these two modes—when in the Full-Resolution mode, press the **Backspace** key for the Fast-Search mode, or, when in the Fast-Search mode, press the **Enter** key for the Full-Resolution mode.

When in *Freeze*, press the **Esc** key for *Live*, or, when in *Live*, press the **Spacebar** for *Freeze*.

Search Options

Fast-Search mode opens using the *Medium-Speed Full-Page* option, which is one of four ways of searching for an image:

- *Full-Page*
- *Zoom 2X*
- *Zoom 3X*

Note: The *Fast-Search Option* dropdown list is to the right of the *Fast Search* button.

Option	Description
<i>Full-Page</i>	Refreshes faster than does Full Resolution mode. The image resolution is decimated by 50%, where every other pixel is displayed, skipping the next one.
<i>Zoom 2X</i>	Displays the upper-left one-fourth of the full-resolution image. Refreshes faster than does Full Resolution mode.
<i>Zoom 3X</i>	Displays the upper-left one-ninth of the full-resolution image. Refreshes faster than does Full Resolution mode.

Image Intensity

You can adjust the image intensity and contrast between the display of the light and dark areas of the microfiche by using three controls, which are, from left to right, the:

- *Gray level* scroll bar
- *Film text* radio buttons
- *Exposure* scroll bar
- *Auto* check box

Intensity Control	Description
<i>Gray level</i>	To set the amount of the gray portion of the image to convert to black so that it compresses more to increase the its transmission rate. This control has seven levels of gray—the right-most gives less grays (the fastest), and the left-most gives more grays (the slowest).
<i>Film text</i>	To select the film type, which enables ImageMouse Plus to compress the data more efficiently for a faster data-transmission rate and an optimal image-refresh rate. <i>Black:</i> For viewing film with dark text on a clear background. <i>White:</i> For viewing film with clear text on a dark background.
<i>Exposure</i>	To manually adjust the light intensity of the overall image.
<i>Auto</i>	To automatically override the manual <i>Exposure</i> settings and readjust them to optimum values. After the image is adjusted, the <i>Auto</i> feature is automatically turned off.

Note: To make manual adjustments, alternately reset the *Gray level* and *Exposure* scroll bars until a good contrast occurs between the image of the microfiche's data and its background.

Image Focus

To focus the image:

- Ensure that the gray-level and exposure adjustments are completed.
- Slowly roll (in either direction) the *Focus* wheel, which is located at the front of the ImageMouse between its left and right buttons.

Note: If you continuously roll the *Focus* wheel in a particular direction, the lens continues to move up and down within a fixed range; therefore, rolling it in either direction performs the same action.

To more-easily adjust the focus of the image:

- Use Fast-Search mode, which gives a image-refresh rate that is faster than does the Full-Resolution mode.
- Select the *Zoom 3X* search option, which displays the upper-left of the full-resolution image and enlarges the data three times larger than normal.

Reduction Ratio

To select one of the four reduction ratios, from the *Reduction* drop-down list, click either **24X**, **28X**, **42X**, or **48X**.

Note: For optimal viewing, ensure that the reduction ratio of the ImageMouse Plus itself corresponds to that for the microfilm being viewed.

Image Size

To select one of two possible image-window sizes and orientations, click either the **8.5x11** (portrait) or the **14x11** (landscape) radio button.

Note: The refresh rate of the *8.5 X 11* size is slightly faster.

Locating a Page

The method for locating a page (or frame) on a cut microfiche or microfilm is different from that for finding it on a roll of film.

Cut Microfiche or Microfilm

With the film-carrier handle, move the film carrier over the microfiche or microfilm until the selected page (or frame) appears on the PC's monitor. See [Figure 3-6](#) on page 3-7.



Figure 3-6. Hand on the Film-Carrier Handle

Roll Film

Use the four buttons (from left to right—*Fast Rewind*, *Rewind*, *Forward*, *Fast Forward*) on the control panel to position the proper length of roll film beneath the top platen glass. See [Figure 3-7](#). For maximum film-winding speed when using the fast buttons, pull the film-carrier handle out all the way to lift the top platen glass off of the roll film.

Note: You can also use the two manual-rotation knobs to position the film.

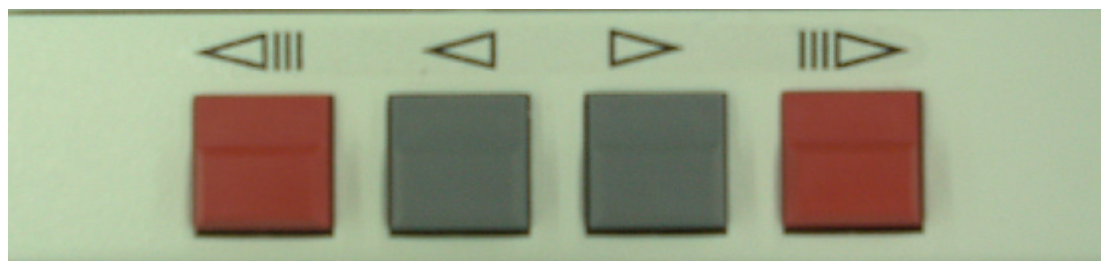


Figure 3-7. ImageMouse Plus Control Panel

- Use the film-carrier handle to fine-tune the placement of the selected image.

Image Rotation

To rotate the displayed image 90 degrees clockwise or counter-clockwise, physically rotate the ImageMouse until the line marks on the ImageMouse retainer ring are aligned. See [Figure 3-8](#).

Note: You can rotate the ImageMouse up to 100 degrees in either direction, which gives a 10-degree leeway to help in obtaining an exact 90-degree alignment.

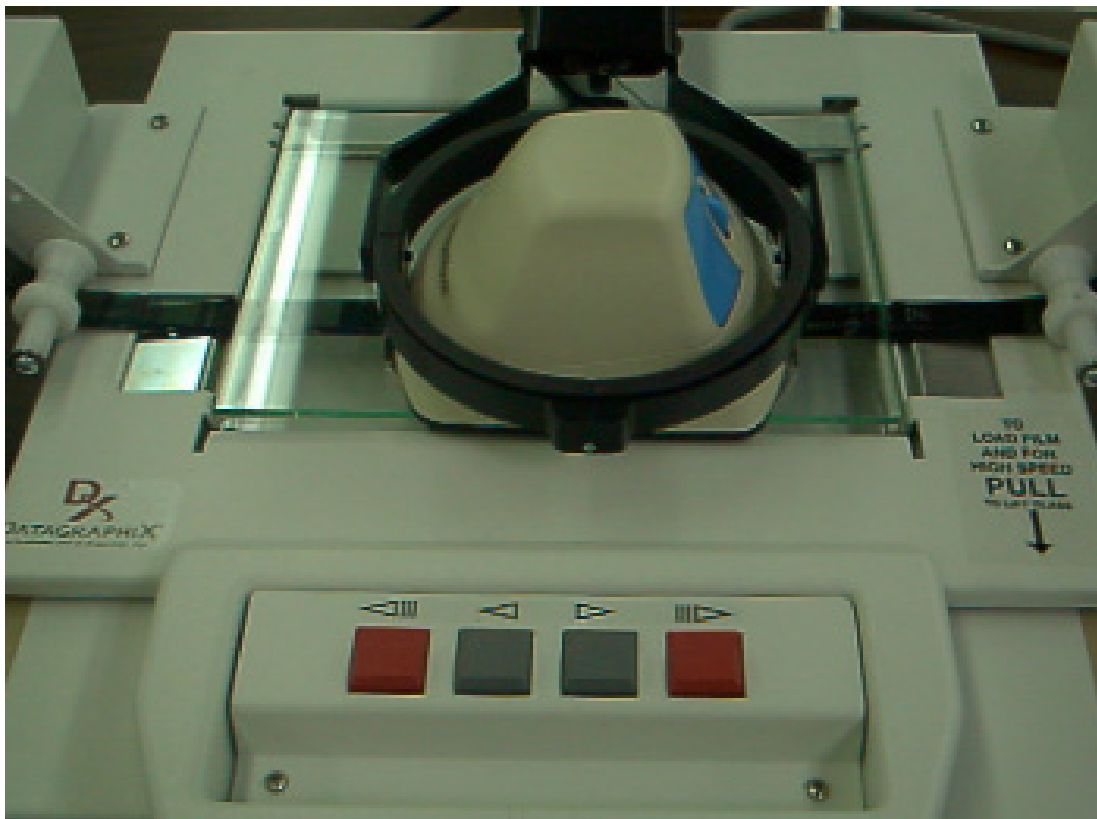


Figure 3-8. ImageMouse Rotation

Full-Resolution Mode

After the proper image is found and displayed using the Fast-Search mode, click the **Full-Resolution** button to switch to the Full-Resolution mode, which gives the image a higher resolution (and a slower image-refresh rate) for further processing, such as for viewing, zooming, panning, saving, and printing. See [Figure 3-9](#) on page 3-9.



Figure 3-9. Full-Resolution Mode (with the image frozen)

Maximum View

To maximize the image-view area, from the *Image* menu, click **Min/Max**. To return the image to its normal area and have access to the image-manipulation controls, relick **Min/Max** (this option is a toggle). See [Figure 3-10](#) on page 3-10.

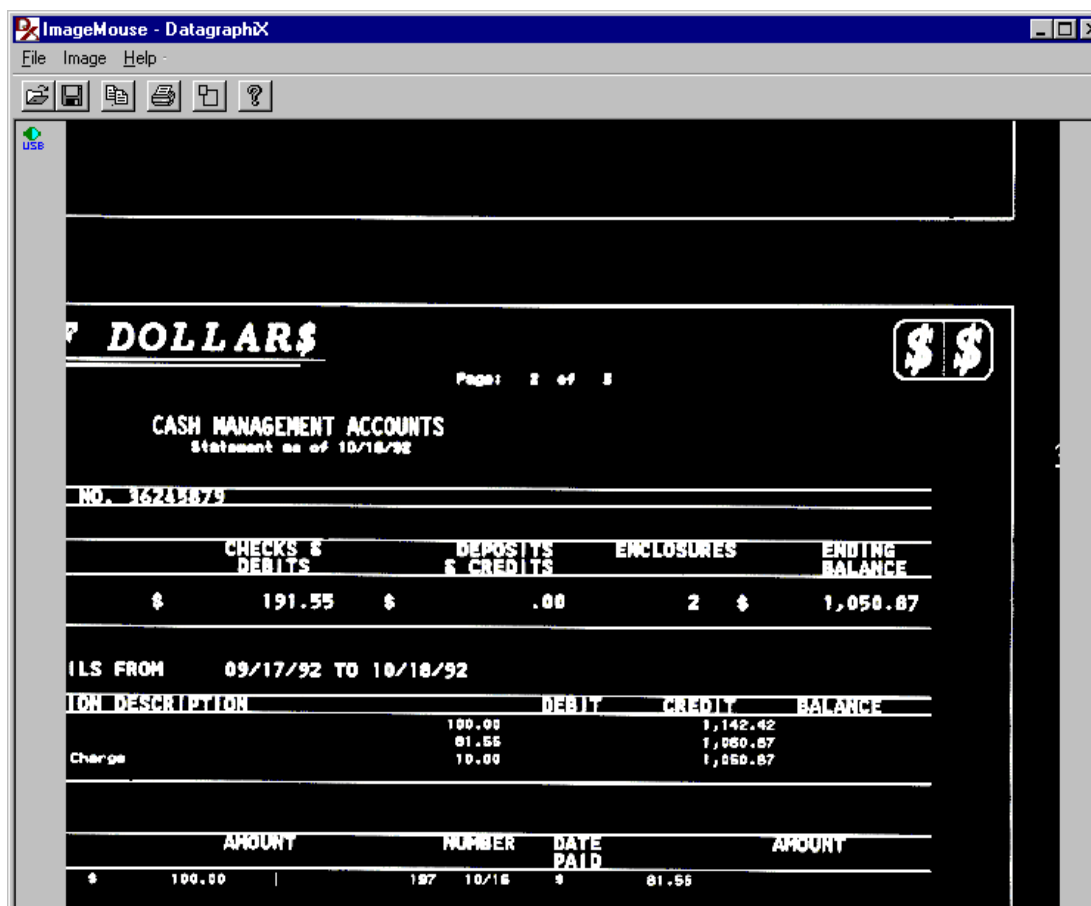


Figure 3-10. Maximum Image-View Area

Freeze and Live

To freeze the displayed image, click the **Freeze** radio button. To unfreeze the image (make it live), click the **Live** radio button, which enables you to move to another area of the microfiche and display it.

Note: To toggle between *Freeze* and *Live*—when in *Freeze*, press the **Esc** key for *Live*, or, when in *Live*, press the **Spacebar** for *Freeze*.

Zoom

When the image is frozen, the *Zoom* scroll bar appears beneath the *Image Size* radio buttons. Use it to vary the magnification of the frozen image from 1X to 4X in increments of 0.01X. You can pan the frozen image by dragging either the image or the vertical and horizontal scroll bars.

Invert and Normal

To display the image with the gray scale inverted (the black and white areas exchange their shading values), click the **Invert** radio button. To redisplay the image in normal gray-scale shades, click the **Normal** radio button. To see the difference between a normal and an inverted image, compare the one in [Figure 3-11](#) with the ones in [Figure 3-9](#) on page 3-9 and [Figure 3-10](#) on page 3-10.

Note: You can save and print an inverted image.

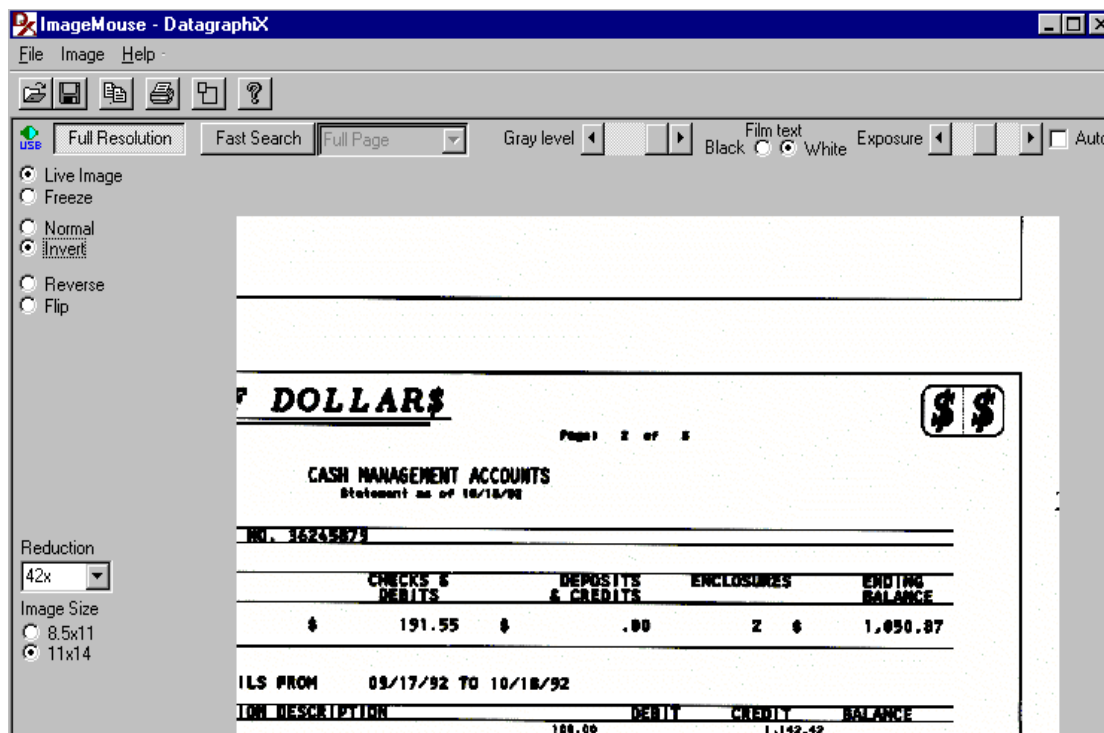



Figure 3-11. Inverted Image

Printing

To print a particular image:

1. In the Fast-Search mode, move the ImageMouse to find and display the image to print.
2. Either select the **Auto** check box or adjust the **Gray level** and **Exposure** scroll bars to obtain a good contrast.
3. If necessary, roll the **Focus** wheel to obtain a good focus.
4. Click the **Full-Resolution** button.
5. Click the **Freeze** radio button.
6. To print the full-resolution frozen image:
 - Using the default printer settings: From the *Toolbar*, click the **Print**, , icon.

- With changed printer settings: From the *File* menu, click **Print**. The *Print* dialog box appears from which you can change the printer settings and then click **OK**. See [Figure 3-12](#).

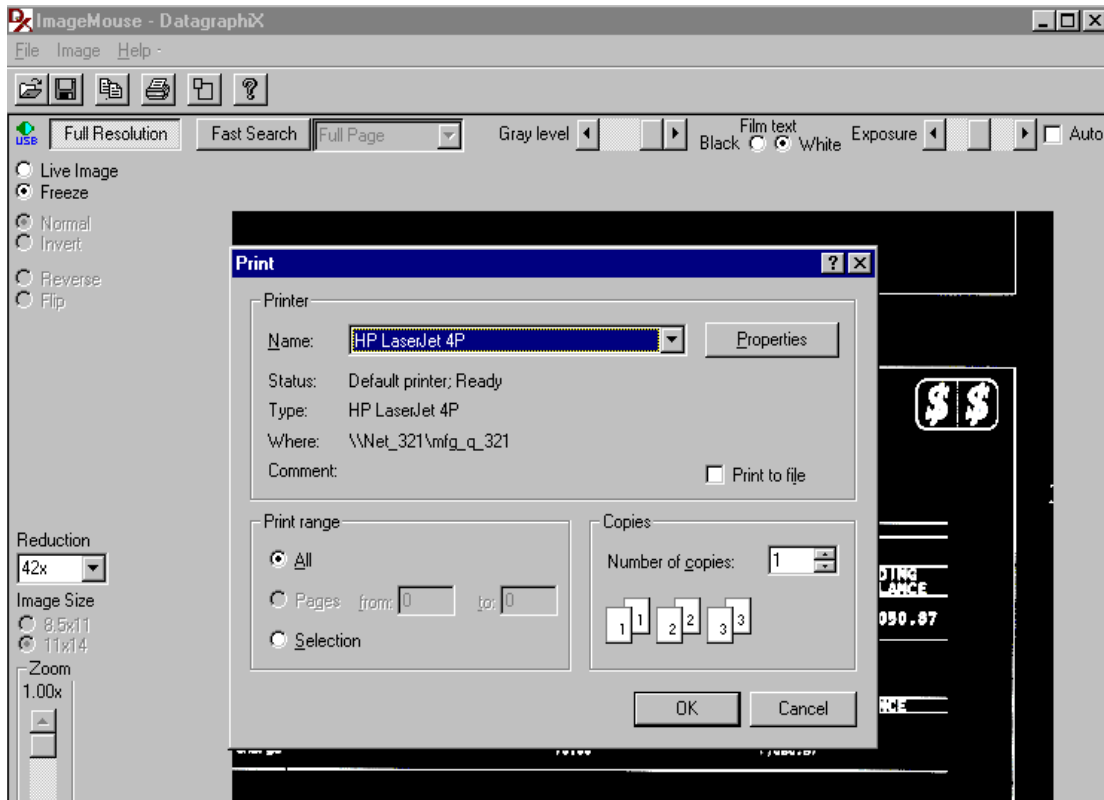



Figure 3-12. Print Dialog Box

Saving an Image File

To save a particular image to your hard disk:

1. In the Fast-Search mode, move the ImageMouse to find and display the image to save.
2. Either select the **Auto** check box or adjust the **Gray level** and **Exposure** scroll bars to obtain a good contrast.
3. If necessary, roll the **Focus** wheel to obtain a good focus.
4. Click the **Full-Resolution** button.
5. Click the **Freeze** radio button.
6. To display the *Save Image File* dialog box, either:
 - From the *File* menu, click **Save**, or
 - From the *Toolbar*, click the **Save** icon, .

See [Figure 3-13](#) on page 3-13.

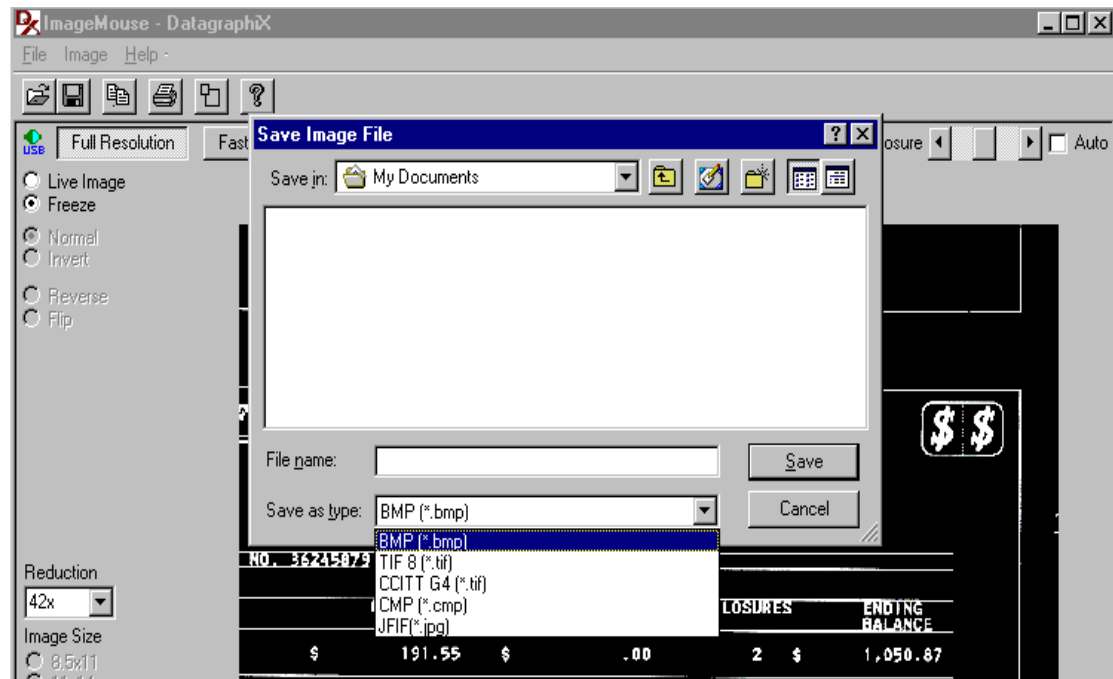



Figure 3-13. Save Image File Dialog Box

7. In the *Save as type* field, click the appropriate format from a dropdown list of four types, which are:
 - JPEG 8-bit (*.jpg)
 - BMP 8-bit (*.bmp)
 - TIF 8-bit (*.tif)
 - TIF G4 (*.tif)
 - CMP 8-bit (*.cmp)
8. In the *File name* field, type *name_of_the_file_to_save*.
9. Click **Save**. The image saves to a graphics file on the hard disk in the folder that is specified in the *Save in* field.

Viewing an Image File

To view a particular image that is in a graphics file on your hard disk:

1. Click the **Full-Resolution** button.
2. Click the **Freeze** radio button.
3. To display the *Open Image File* dialog box, either:
 - From the *File* menu, click **Open**, or
 - From the *Toolbar*, click the **Open** icon, .

See [Figure 3-14](#) on page 3-14.

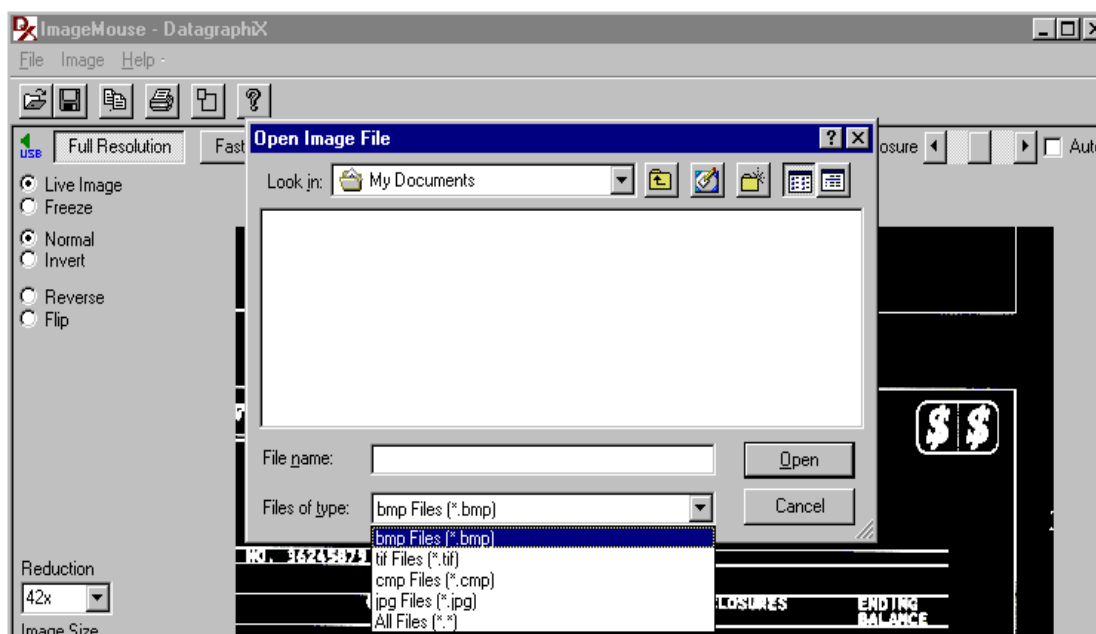


Figure 3-14. Open Image File Dialog Box

4. Ensure that the *Files of type* field indicates the type of file that you want to retrieve. For example, in [Figure 3-14](#), if you want to view the `icon.bmp` image, ensure that `bmp Files (*.bmp)` shows in the *Files of type* field.
5. Either:
 - Double-click on `file_name_to_retrieve`, or
 - Click on `file_name_to_retrieve` and then click **Open**.

Note: When viewing an image from a retrieved graphics file, you can modify its visual attributes just like you can with an image from a microfiche that is viewed by the ImageMouse Plus. Then, you can resave it.

To close an image from a retrieved graphics file and redisplay an image from a microfiche that is viewed by the ImageMouse Plus, click the **Fast-Search** button.

Power-Saving Mode

After thirty minutes of ImageMouse Plus inactivity, the tablet lamp automatically switches off to both conserve energy and protect the loaded microfiche from overexposure. An *ImageMouse warning* dialog box appears. See [Figure 3-15](#).

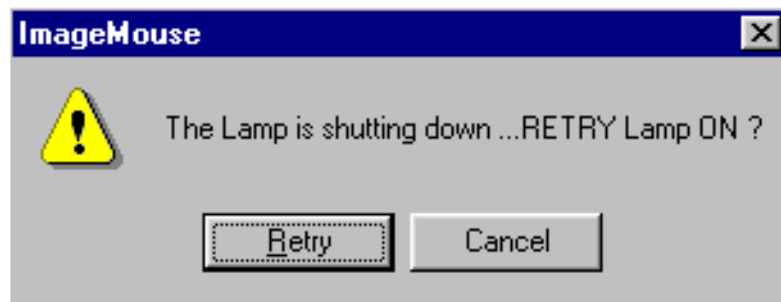


Figure 3-15. ImageMouse Warning Dialog Box

To resume normal ImageMouse Plus operation with the lamp at high intensity, click **Retry**. The *ImageMouse warning* dialog box vanishes.

To shut down ImageMouse Plus, click **Cancel**.

Appendix A

Controls

You can control the ImageMouse Plus by using commands with the:

- Menu Bar
- Toolbar
- ImageMouse Plus Window
- ImageMouse Controls
- ImageMouse Plus Controls
- Hot Keys

Menu Bar

The Menu Bar contains three menus:

- File Menu
- Image Menu
- Help Menu

File Menu

The File menu contains four options:

Option	Description
Open	To retrieve a graphics file from the hard disk and display its image in the ImageMouse Plus window. See Figure 3-14 on page 3-14.
Save	To save the image that is displayed in the ImageMouse Plus window to a graphics file on the hard disk. See Figure 3-13 on page 3-13.
Print	To print the image that is displayed in the ImageMouse Plus window to either the default printer or the printer that you specify in the <i>Print</i> dialog box. See Figure 3-12 on page 3-12.
Exit	To exit and shut down the ImageMouse Plus program.

Image Menu

The Image menu contains two options:

Option	Description
Min/Max	Toggles the image-display area within the ImageMouse Plus window between its normal (minimized) area to its maximum area, which overlays the image-manipulation controls. To regain access to these controls, again toggle Min/Max .
Copy	Copies the image on the ImageMouse Plus window to the Windows clipboard from which you can paste it to other application programs.

Help Menu

The Help menu contains three options:

Option	Description
Index	Displays the ImageMouse Plus online help file. You can also access this option by pressing the F1 key.
Using Help	Displays the Windows 98 instructions for using online help.
About ImageMouse	Displays information about the development of the ImageMouse product.

Toolbar



The Toolbar contains six iconized buttons, which invoke the same options as do their counterparts from the Menu bar (from left to right):

- Open File (refer to the Open option under “[File Menu](#)” on page A-1)
- Save File (refer to the Save option under “[File Menu](#)” on page A-1)
- Copy Image (refer to the Copy option under “[Image Menu](#)”)
- Print Image (refer to the Print option under “[File Menu](#)” on page A-1)
- Display Full Screen (refer to the Min/Max option under “[Image Menu](#)”)
- Help (refer to the Index option under “[Help Menu](#)”)

ImageMouse Plus Window

The ImageMouse Plus window, in addition to containing an image from the microfiche that is on the tablet, contains various tools for manipulating that image, such as buttons, scroll bars, check boxes, radio buttons, and dropdown lists:

Tool	Description
<i>Full Resolution</i>	To display the image in full resolution (mutually exclusive with <i>Fast Search</i>).
<i>Live Image</i>	To update the image from the ImageMouse Plus capture cycle (mutually exclusive with <i>Freeze</i>).
<i>Freeze</i>	To freeze the image display for printing or saving (mutually exclusive with <i>Live Image</i>).
<i>Zoom</i>	When the image is frozen in Full-Resolution mode, the Zoom scroll bar appears, which enables you to vary the magnification of the frozen image from 1X to 4X in increments of 0.01X.
<i>Reverse</i>	The image is flipped 180 degrees horizontally to accommodate images that are loaded in reverse.
<i>Flip</i>	The image is flipped 180 degrees vertically to accommodate images that are loaded upside down.
<i>Fast Search</i>	To search for data that is on the microfiche under the ImageMouse. It has a faster image-refresh rate and a lower image resolution than does Full-Resolution mode, with which it is mutually exclusive.
<i>Full Page</i>	Used in Fast-Search mode. Refreshes faster than does Full Resolution mode. The image resolution is decimated by 50%, where every other pixel is displayed, skipping the next one.
<i>Zoom 2X</i>	To display the upper-left one-fourth of the full-resolution image. Refreshes faster than does Full Resolution mode.
<i>Zoom 3X</i>	To display the upper-left one-ninth of the full-resolution image. Refreshes faster than does Full Resolution mode.
<i>Gray level</i>	To set the amount of the gray portion of the image to convert to black so that it compresses more to increase the its transmission rate. This control has seven levels of gray—the right-most gives less grays (the fastest), and the left-most gives more grays (the slowest).
<i>Exposure</i>	To manually adjust the light intensity of the image data. Dragging the scroll bar to the left decreases the light intensity.
<i>Auto</i>	To automatically optimize both the background and exposure settings. When checked, it overrides both the <i>Background</i> and <i>Exposure</i> scroll-bar settings.
Image Size	Each of these two radio buttons selects an image size and orientation: 8.5 X 11 (portrait) and 14 X 11 (landscape). The refresh rate of the 8.5 X 11 size is slightly faster.

Reduction	To select the reduction ratio of either 24X, 28X, 42X, or 48X, depending upon both the ImageMouse magnification setting and the reduction ratio of the microfiche.
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ImageMouse Controls

The ImageMouse has three controls on its front side (from left to right):

Control	Description
Left Button	To toggle between Full-Resolution and Fast-Search mode.
Focusing Wheel	To focus the ImageMouse lens on the microfiche.
Right Button	To toggle between <i>Live Image</i> and <i>Freeze</i> settings.

ImageMouse Plus Controls

The ImageMouse Plus has four control buttons on its control panel. See Figure A-1.

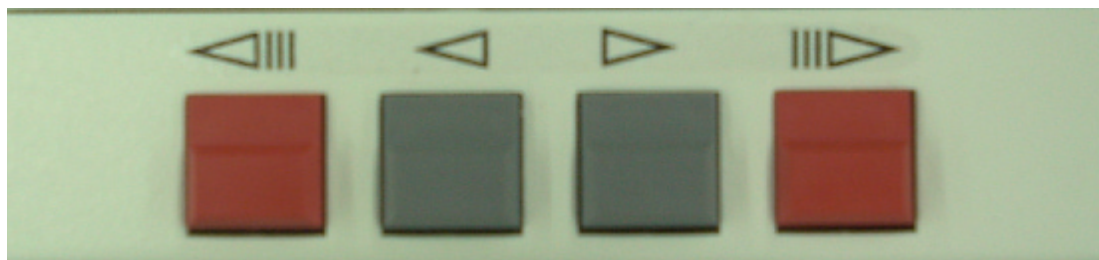


Figure A-1. ImageMouse Plus Control Panel

These buttons move the film as described below, from left to right:

Button	Description
Fast Rewind	Backward (to the left) at medium speed
Rewind	Backward (to the left) at slow speed
Forward	Forward (to the right) at slow speed
Fast Forward	Forward (to the right) at medium speed

Note: For high-speed film winding when using the fast buttons, pull the film-carrier handle all of the way out to lift the top platen glass off of the roll film.

Hot Keys

When the ImageMouse Plus program is active, some of the following keys perform ImageMouse-Plus-specific commands:

Key	Description
Spacebar	To select <i>Freeze</i> , when in Full-Resolution mode
Esc	To change to <i>Live Image</i> from <i>Freeze</i>
Enter	To change to Full-Resolution mode from Fast-Search mode
Backspace	To change to Fast-Search mode from Full-Resolution mode
Ctrl-N	To open a new file
Ctrl-O	To open an existing open file
Ctrl-P	To print a file
Ctrl-S	To save a file
Ctrl-C	To edit/copy a file
Ctrl-X	To edit/cut
Insert	To edit/copy
Delete	To edit/cut
F1	To invoke the Help file

Appendix B

Frequently Asked Questions

How can I view an image that is in a file?

1. Start ImageMouse Plus.
2. From the *File* menu, click **Open**.
3. Browse to the folder that contains the image file.
4. Select the file and click Open.

Note: Any graphics program that supports the graphics format (JPG, BMP, TIFF, etc.) of the image to view can display it.

How long a cable can I use to connect my mouse?

The USB specification limits the length of a cable between full-speed devices to about four meters. Using the cable provided with ImageMouse Plus is best. Additional lengths may cause unstable images to display.

What other devices can I connect on the same USB hub?

Typically, any USB-compliant device can connect to the same USB hub, but do not run any other USB devices while running ImageMouse Plus. Insufficient resources allocated to the ImageMouse Plus may cause it to be unstable.

How can a quality image be obtained?

Clean all exposed glass regularly. Dust on the glass is magnified along with the microfiche image.

How can a data file be associated with a program?

1. Open Windows' Exploring window.
2. From the *View* menu, click **Folder Options**.
3. Click the **File Types** tab. The *Folder Options* dialog box appears with the *Registered file types* list displayed. See [Figure B-1](#) on page B-2.

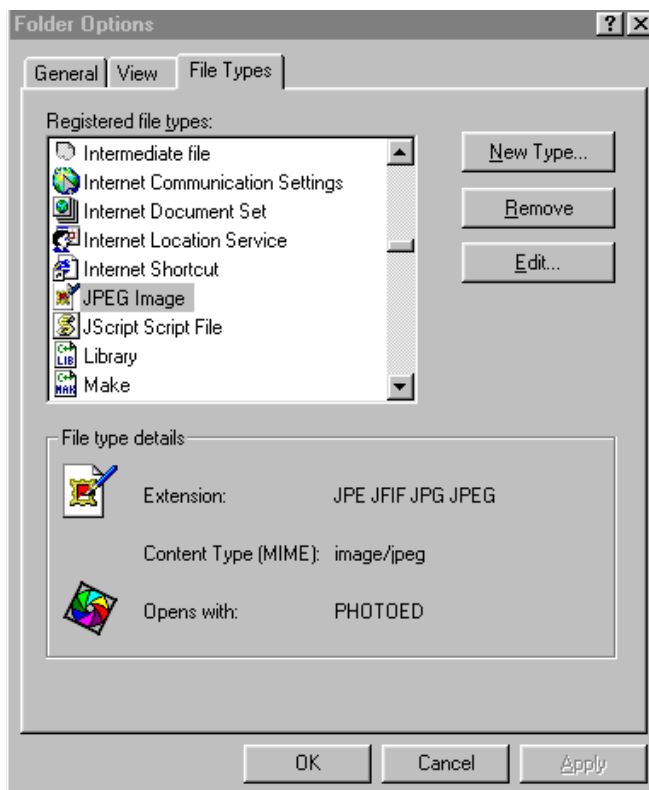


Figure B-1. Folder Options Dialog Box

4. In the *Registered file types* list, scroll to and select the file type to associate with a program. In this example, the file type is JPEG.
5. Click **Edit**. The *Edit File Type* dialog box appears. See [Figure B-2](#) on page B-3.

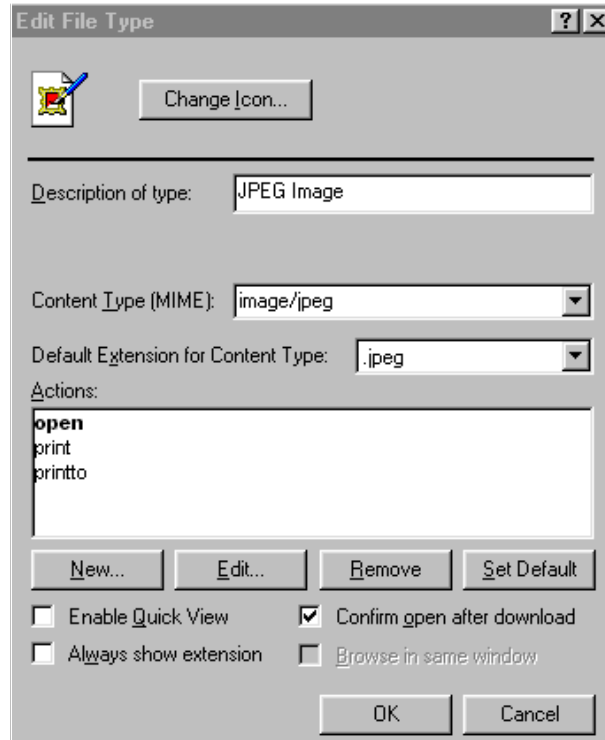


Figure B-2. Edit File Type Dialog Box

6. Click **Edit**. The *Editing action for type: JPEG Image* dialog box appears. See [Figure B-3](#).

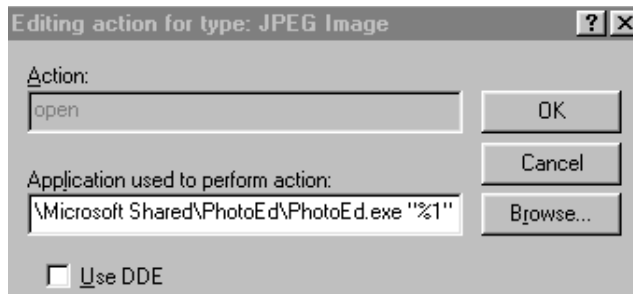


Figure B-3. Editing Action For Type Dialog Box

7. Click **Browse**. The *Open With* dialog box appears. See [Figure B-4](#) on page B-4.

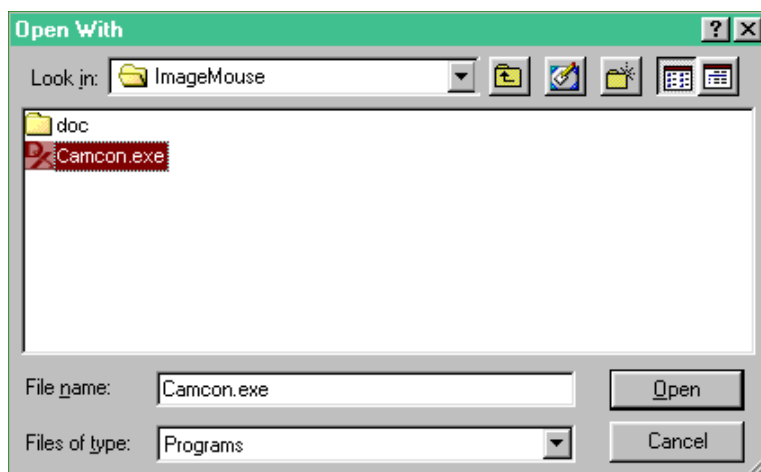


Figure B-4. Open With Dialog Box

8. Display the folder that lists the executable file of the program to associate the data-file type with.
9. Select the program's executable file (* .exe) and click **Open**.
10. In the *Editing action for type* dialog box, click **OK**.
11. In the *Edit File Type* dialog box, click **Close**.
12. In the *Folder Options* dialog box, click **Close**. The association between the data-file type and the program is established. In this example, when clicking (or double-clicking) on the name of a JPEG file, ImageMouse Plus starts and loads that JPEG file.

How can I save exposure settings?

ImageMouse Plus retains the last exposure and background settings in memory. Currently, no support exists for active-user-saved exposure settings.

What do I check or do if the mouse freezes?

Usually, the cause is an unstable power supply. A full-system reset should correct this problem.

1. If possible, close ImageMouse Plus.
2. Shut down the PC.
3. Unplug the power cord from the ImageMouse unit.
4. Replug the power cord into the ImageMouse unit.
5. Restart the PC.
6. Restart ImageMouse Plus.

Note: If the problem persists, contact DatagraphiX Customer Service.

How can I better focus my prints?

An unfocused image can be caused by:

- wrong display setting
- wrong background setting
- wrong exposure setting
- wrong focus adjustment

To resolve the problem, perform the following procedures in the order listed:

Display Setting

1. Right-click anywhere on the empty area of Windows *Desktop*.
2. In the pop-up menu, click **Properties**.
3. Click the **Settings** tab.
4. Ensure that **High Color (16-bit)** appears in the *Colors* field. If it does not, click the field's down arrow and select **High Color (16 bit)**.
5. Click **Apply**.
6. Click **OK**.

Exposure and Background Settings

1. On the *ImageMouse* window, check the **Auto** check box, which is located to the right of the *Exposure* slider. ImageMouse Plus automatically adjusts the exposure setting toward an optimum value.
2. When the automatic adjustments stabilize, uncheck the **Auto** check box.
3. With the *Exposure* and *Gray level* sliders, manually fine tune the exposure and gray-level settings so that the best possible contrast and brightness settings occur.

Focus Adjustment

The focus should need adjustment only once for a particular type of fiche. If you change from one type of fiche to another, such as from originals to a thinner duplicate or a thicker jacket, you may need to manually adjust the focus with the wheel on the front of the mouse. To do so:

1. Select *Fast Search* mode and the *Zoom 2X* option. The image enlarges at about half resolution.
2. Rotate the focus wheel forward by a quarter turn and wait about one second to see the result.
3. Rotate another quarter turn and view the result, which should be a blurred image.
4. Continue to rotate the focus wheel in the same direction in quarter-turn increments until the image focuses to its maximum sharpness.
5. Select Full resolution mode to see the sharpest image possible.

Note: You can endlessly rotate the focus wheel in either direction with the same result, which is to continuously cycle the focal length of the lens through its maximum and minimum distances.

How do I copy a microfiche image to another program?

1. Start ImageMouse Plus.
2. Position the ImageMouse over the selected area of the microfiche.
3. Adjust the focus and exposure.
4. Click **Full Resolution**.
5. Select **Freeze**.
6. From ImageMouse's *Edit* menu, click **Copy**.
7. Start a second program, such as MS Word, Paint, or Excel.
8. In the second program's display area, place the cursor at the location to paste the image.
9. From the second program's *Edit* menu, click **Paste**. The image copies to the second program's display area.

How do I insert (or attach) an image file into another program?

1. Start a program, such as MS Word, Paint, or Excel.
2. From the *Insert* menu, click **File**.

Note: In other programs, the *Insert* command is labeled *Attach* or some other name. To determine the proper commands, refer to the particular program's documentation.
3. Browse to the folder that contains the image file.
4. Select the name of the image file to insert.
5. Click **OK**.

How do I work with an Image using MS Paint and Kodak Imaging

With Windows 98 Second Edition's Accessories programs, such as Paint and Imaging, you can manipulate an image. In the Paint program, you can crop, flip, rotate, stretch, and skew an image. In the Kodak Imaging program, you can annotate an image.

Crop

1. Start the Paint program (a Windows Accessories program) and, if necessary, maximize its window for better viewing.
2. In the *File* menu, click **Open**.
3. Browse to the folder that contains the image file.
4. Select the image file.

5. Click **Open**. The image appears in Paint's display area.
6. Click the **Select** icon from the *Tool* palette to the left of the display area. The mouse pointer changes into cross hairs.
7. Drag the mouse on the image to select a rectangular area, which becomes bordered by dashed lines. See [Figure B-5](#).

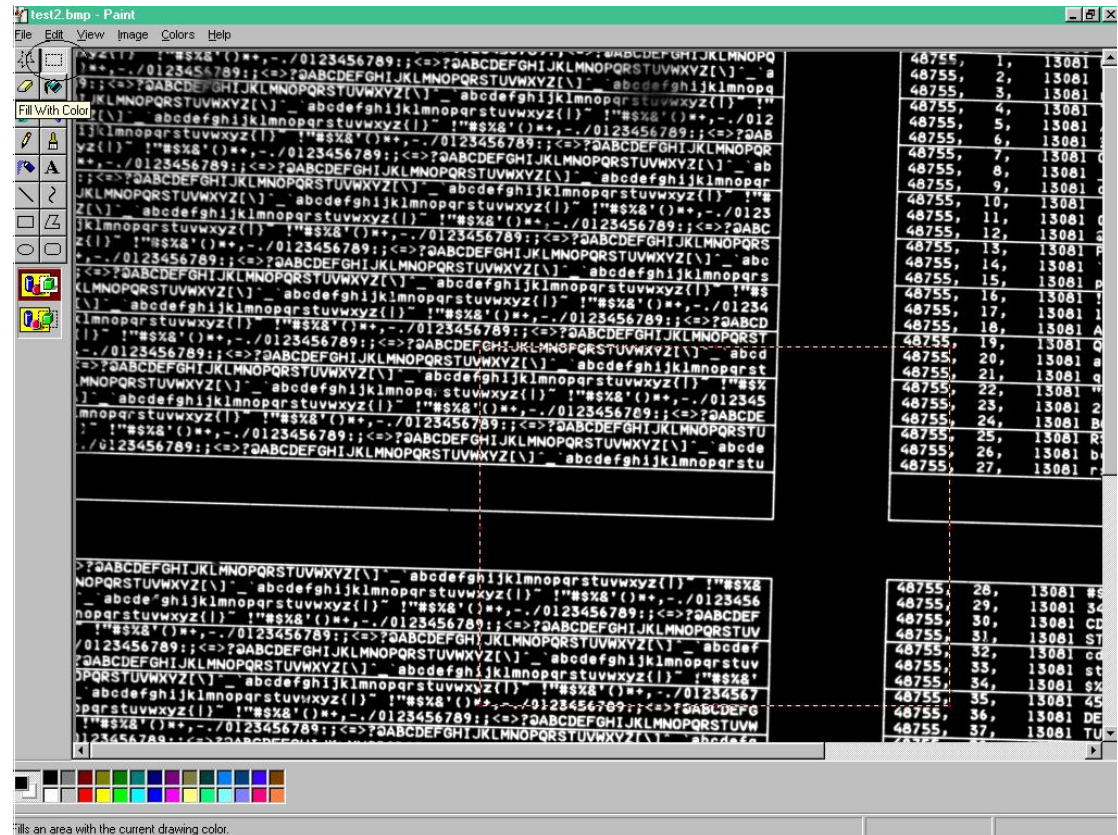


Figure B-5. Cropping in Paint

8. From the *Edit* menu, click **Copy To**. See [Figure B-6](#).

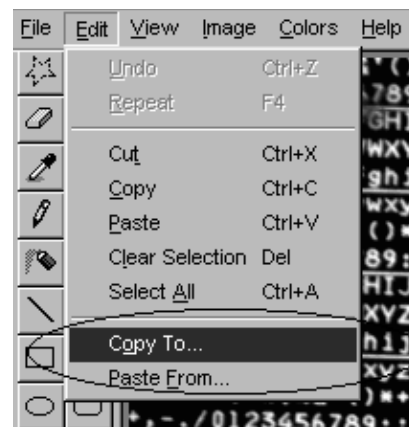


Figure B-6. Copying the Cropped Image

9. In the *Copy To* dialog box, type a file name into the *File name* field.
10. Click **Save**.

Note: This method only saves the image in BMP format.

Flip/Rotate, Stretch/Skew

1. Start the Paint program (a Windows Accessories program) and, if necessary, maximize its window for better viewing.
2. In the *File* menu, click **Open**.
3. Browse to the folder that contains the image file.
4. Select the image file.
5. Click **Open**. The image appears in Paint's display area.
6. From the *Image* menu, click either **Flip/Rotate** or **Stretch/Skew**. See [Figure B-7](#).

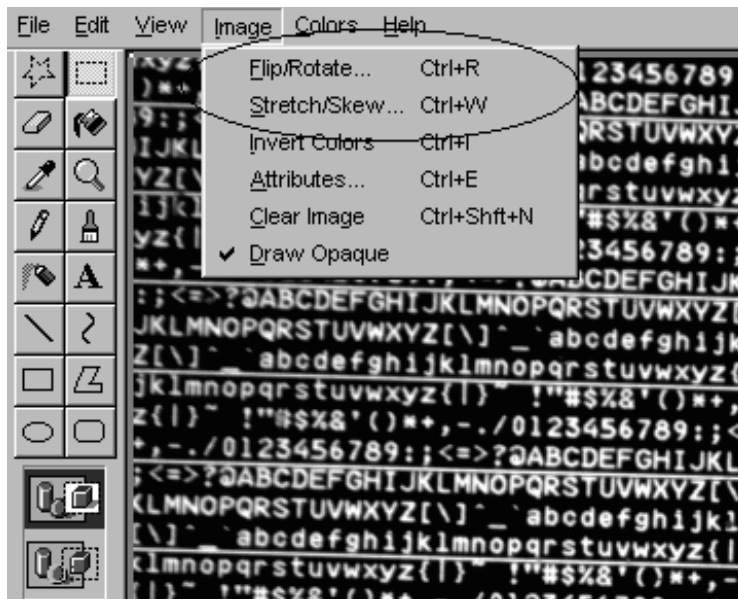


Figure B-7. Flip, Rotate, Stretch, and Skew the Image

7. In either the *Flip and Rotate* or *Stretch and Skew* dialog box, select modifications to the image and click **OK**.
8. From the *File* menu, save the new image as required.

Annotation

1. Start the Kodak Imaging program (a Windows Accessories program) and, if necessary, maximize its window for better viewing.
2. In the *File* menu, click **Open**.
3. Browse to the folder that contains the image file.

4. Select the image file.
5. Click **Open**. The image appears in Imaging's display area.
6. From the *Annotation* menu, click the selected annotation and enter its options. See [Figure B-8](#).

Note: For descriptions of the options, refer to the program's online-help feature.

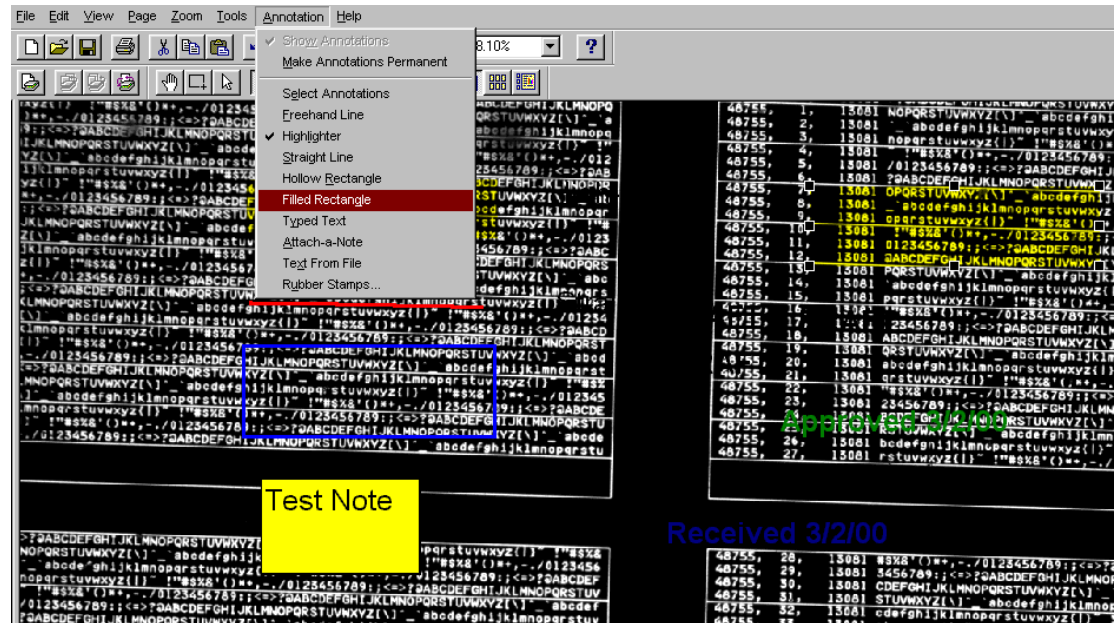


Figure B-8. Annotation Menu

7. From the File menu, save the new image as required.

How do I enable the USB port in the BIOS?

You must install ImageMouse Plus on a PC that possesses a:

- Windows 98 Second Edition operating system
- BIOS that supports a USB port
- USB port. See [Figure B-9](#).

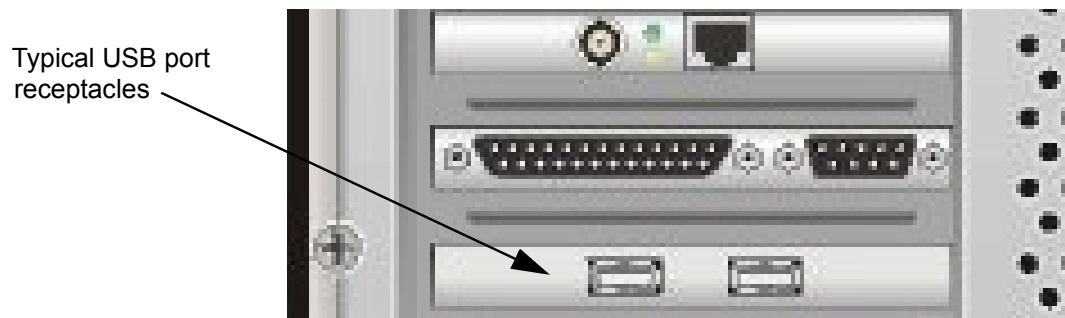


Figure B-9. Partial View of the Back of a PC with USB Ports

For ImageMouse Plus to install and operate, the USB port must be enabled. Sometimes, this must be done manually. Usually you can enable the USB port from the setup menu of the PC's BIOS. To do so:

1. At the beginning of the PC start process, access the BIOS setup menu by pressing **F1** when prompted.

Note: Sometimes, in other BIOS versions, you need to press either **Esc**, **Delete**, or **F2** to access the BIOS menu.

2. Select the *Peripherals* page, which should contain the USB settings.
3. Change the setting to enable the USB port.
4. Save the modified settings.
5. Exit the BIOS Setup.

Note: If your PC contains a USB port, but the BIOS does not support it, contact your PC manufacturer for a possible BIOS upgrade or obtain another PC that has a BIOS that supports its USB port.

How do I resolve conflicting IRQs?

Usually, the USB host controller can share IRQs with other devices. In some cases, if the USB host controller uses the same IRQs with other devices, ImageMouse Plus might not work properly. For example, ImageMouse Plus might freeze or not be detected by Windows 98. If this happens, you can manually reserve an IRQ so that the USB host controller possesses its own IRQ. To do so:

1. On Windows *Desktop*, right-click the **My Computer** icon.
2. From the popup menu, click **Properties**. The *System Properties* dialog box appears.
3. Click the **Device Manager** tab. See [Figure B-10](#) on page B-11.

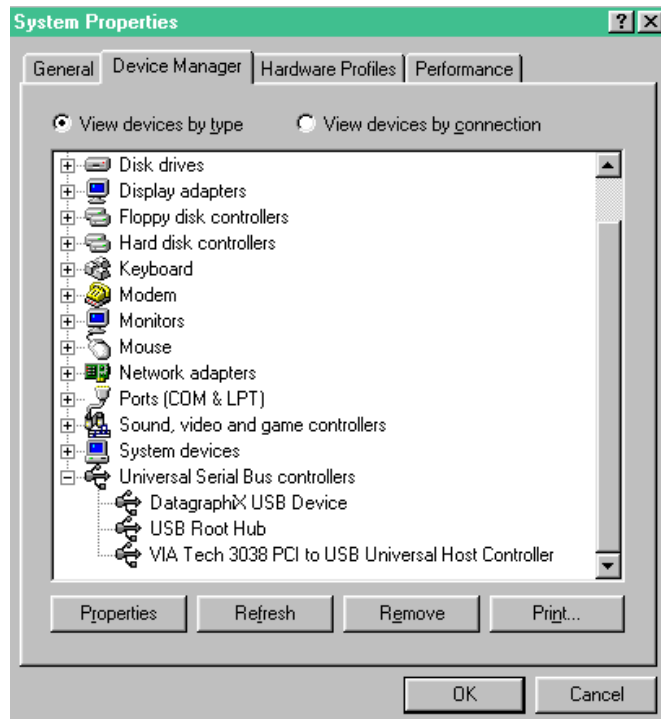


Figure B-10. System Properties Dialog Box

4. Double-click the **Computer** icon located at the top of the display area. The *Computer Properties* dialog box's *View Resources* page appears. See [Figure B-11](#).

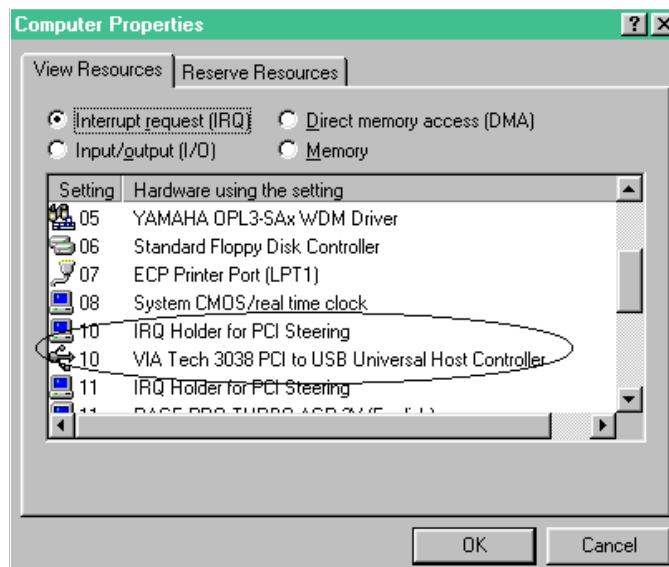


Figure B-11. Computer Properties Dialog Box, View Resources Page

5. Ensure that the **Interrupt request (IRQ)** radio button is selected.
6. Scroll down the list of IRQs to view the IRQ number and the name of the USB Host Controller.

Note: In this example, they are, respectively, 10 and VIA tech 3038 PCI to USB Universal Host Controller. See [Figure B-11](#) on page B-11.

7. Click the **Reserve Resources** tab. See [Figure B-12](#).

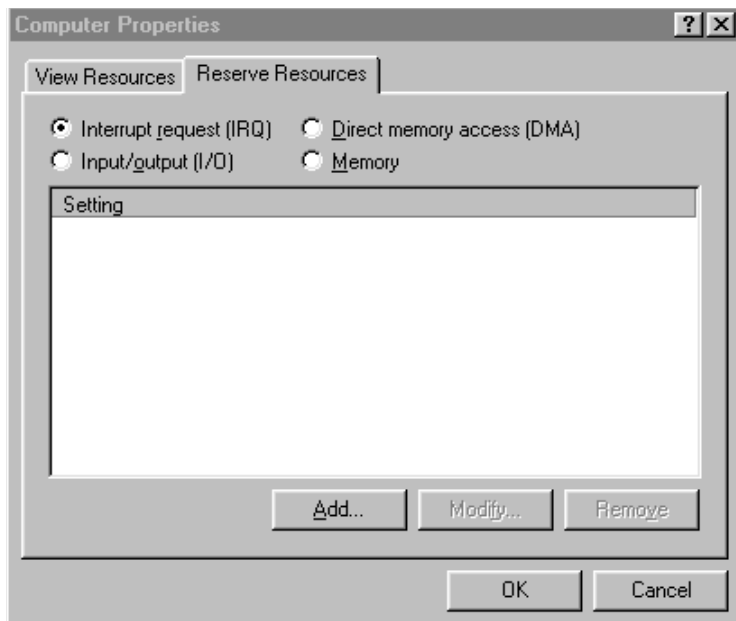


Figure B-12. Computer Properties Dialog Box, Reserve Resources Page

8. Click **Add**. The *Edit Resource Setting* dialog box appears. See [Figure B-13](#).

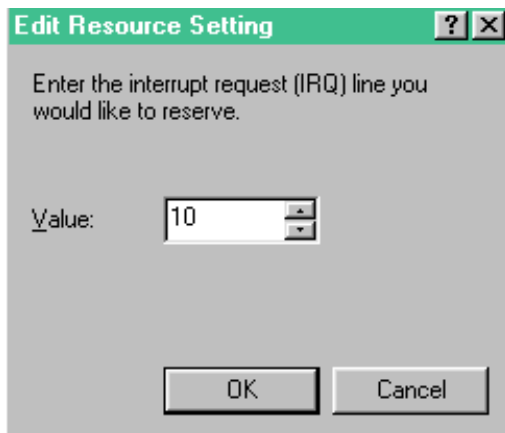


Figure B-13. Edit Resource Setting Dialog Box

9. Type the IRQ number that the USB host controller is currently using. In this example, it is 10.
10. Click **OK**.
11. Click **OK** on the *Resource Conflict Warning* dialog box and then on the *Computer Properties* dialog box.

12. In the *System Properties* dialog box, click the + sign in front of the Universal Serial Bus controller line.
13. Click (highlight) the ... USB Universal Serial Bus Host Controller line.
14. Click **Remove**. The *Confirm Device Removal* message box appears.
15. Click **OK**.
16. Shutdown and restart the system for the new setting to take affect. All of the Universal Serial Bus Controller items should be detected, and the host controller assigned a new IRQ number.
17. Operate ImageMouse Plus to ensure that it works properly.
18. Repeat Steps 1 through 6, but instead of adding a reserved IRQ, the IRQ that was reserved will be high-lighted and removed.
19. Shutdown and restart the system.

Appendix C

Troubleshooting

For ImageMouse Plus to work properly, the USB host controller, USB root hub, and ImageMouse Plus hardware must be properly installed and configured. To verify this, check to ensure that these items are properly detected. To do so:

1. On Windows *Desktop*, right-click the **My Computer** icon.
2. From the popup menu, click **Properties**. The *System Properties* dialog box appears.
3. Click the **Device Manager** tab.
4. Click the plus sign (+) in front of the *Universal Serial Bus controllers* line. Beneath should appear at least three lines—*DatagraphiX (ImageMouse) USB Device*, *USB Root Hub*, and *VIA Tech 3038 PCI to USB Universal Host Controller*. See [Figure C-1](#). (Your PC's motherboard may have a different chipset in which case the last line would be different.)

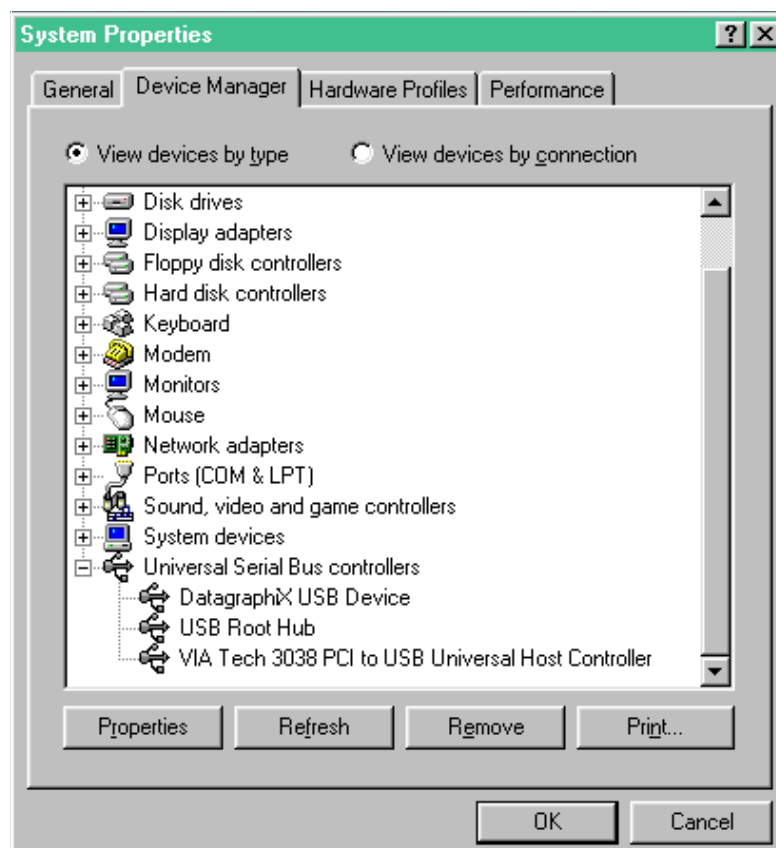


Figure C-1. System Properties Dialog Box

With your computer, if these three lines are not present, you must troubleshoot, as follows:

The *Device Manager* page lists no USB devices

- Refer to your PC's documentation or contact the PC manufacturer to ensure that your PC supports a USB port.
- Your computer's USB port might not be enabled. The USB port must be enabled and configured for ImageMouse Plus to operate.
- To install ImageMouse Plus, your PC must have Microsoft Windows 98 Second Edition installed. To determine the version of Windows 98 that you are using:
 - On Windows *Desktop*, right-click the **My Computer** icon.
 - From the popup menu, click **Properties**.
 - In the *System Properties* dialog box's *General* page, ensure that Microsoft Windows 98 Second Edition 4.10.2222.A appears. Otherwise, ImageMouse Plus might not work properly.

The *Device Manager* page lists the USB Host Controller but no USB Root Hub

- On Windows *Desktop*, right-click the **My Computer** icon.
- From the popup menu, click **Properties**.
- In the *System Properties* dialog box's *Device Manager* page, ensure that the minus sign (-) is in front of the *Universal Serial Bus controllers* line. See [Figure C-1](#) on page C-1.
- Select the ...*USB Host Controller* line.
- Click **Remove**.
- Click **Refresh**. Windows 98 redetects the hardware and should find both the Host Controller and the Root Hub. Follow the prompts in the hardware wizard.

Note: If a prompt asks you to insert the Windows 98 Second Edition installation CD into the CD drive, do so and continue to execute the prompt's instructions. A system restart is required for the new setting to take effect.

The *Device Manager* page detects no ImageMouse, but, under the *Other Device* line, an unknown *USB Device* line with a question mark exists

- On Windows *Desktop*, right-click the **My Computer** icon.
- From the popup menu, click **Properties**.
- In the *System Properties* dialog box's *Device Manager* page, ensure that the minus sign (-) is in front of the *Other Devices* line.
- Click the unknown **USB Device** to highlight it.
- Click **Remove**.

- Click **Refresh**. Windows redetects the hardware.
- Follow the hardware-wizard prompts.

Note: If prompted to insert your Windows installation CD, do not do so. Instead, click OK and browse to file:

C:\program files\Datagraphix ImageMouse\imagemouse\anacompl.inf

The *Device Manager* page detects the USB Root Hub and USB Host controller but not the ImageMouse

Possible causes are that the:

- USB port is defective or
- the ImageMouse Plus unit has no power.

Possible solutions are:

- Press the lamp-test button at the right-rear of the ImageMouse Plus unit. If the lamp does not illuminate, check that its power cord is properly connected at each end.
- Install a different USB device on your PC. If it works, possibly the ImageMouse Plus hardware is defective. Contact DatagraphiX Customer Service. If it does not work, possibly the USB cable or port is bad. Contact the PC manufacturer.
- Install the ImageMouse Plus on a different computer that supports USB devices. If it works, possibly the USB port on the original PC is bad. Contact the PC manufacturer. If the ImageMouse Plus does not work, it may be defective. Contact DatagraphiX Customer Service.

The USB connection locks up while operating ImageMouse Plus

Some USB connection lock-ups are related to BIOS or Windows 98. Check with your PC manufacturer for the latest BIOS updates, or access the Microsoft Web site for updates that pertain to the USB port.

The *Device Manager* page detects the USB Host Controller and the USB Root Hub, but ImageMouse appears under Other Devices as USB Device

In this case the autoinstall wizard did not work (see [Figure C-2](#) on page C-4). You need to configure the ImageMouse Plus hardware manually. To do so:

1. Ensure that the ImageMouse Plus software is installed.
2. On Windows *Desktop*, right-click the **My Computer** icon.
3. From the popup menu, click **System Properties**.
4. In the *System Properties* dialog box's *Device Manager* page, double-click the **? USB Devices** line (see [Figure C-2](#) on page C-4). The *USB Device Properties* dialog box appears. See [Figure C-3](#) on page C-4.

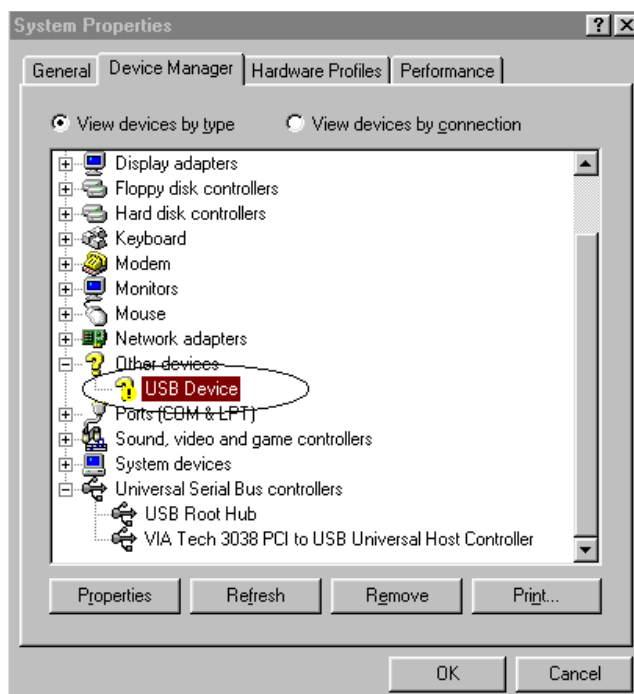


Figure C-2. System Properties Dialog Box Device Manager (Other Devices)

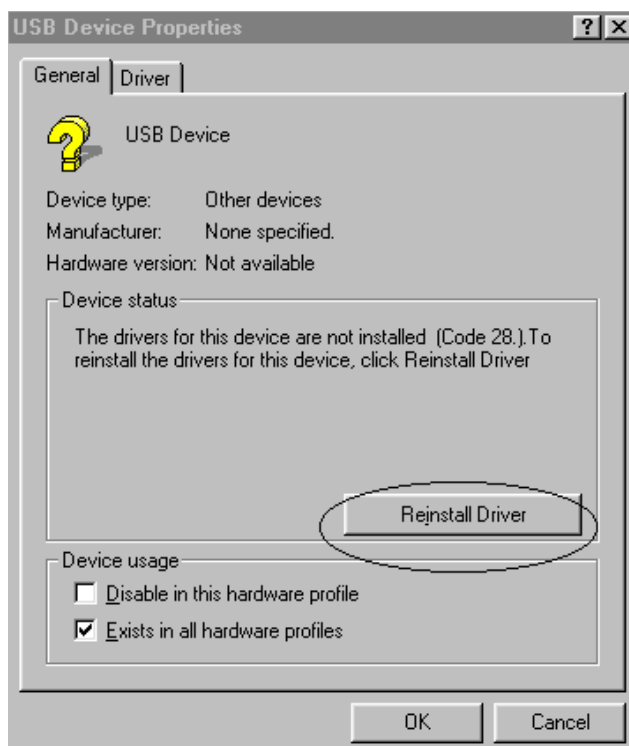


Figure C-3. USB Device Properties Dialog Box

5. Click **Reinstall Driver** to display *Update Device Driver Wizard* box one. See [Figure C-4](#).



Figure C-4. Update Device Driver Wizard Box (Driver Search)

6. Click **Next**.
7. On the next wizard box, select *Display a list of all driver in a specific location ...* radio button. See [Figure C-5](#).



Figure C-5. Update Device Driver Wizard Box (Display Drivers)

8. Click **Next**.
9. On the next wizard box, click **Have Disk**. See [Figure C-6](#) on page C-6.

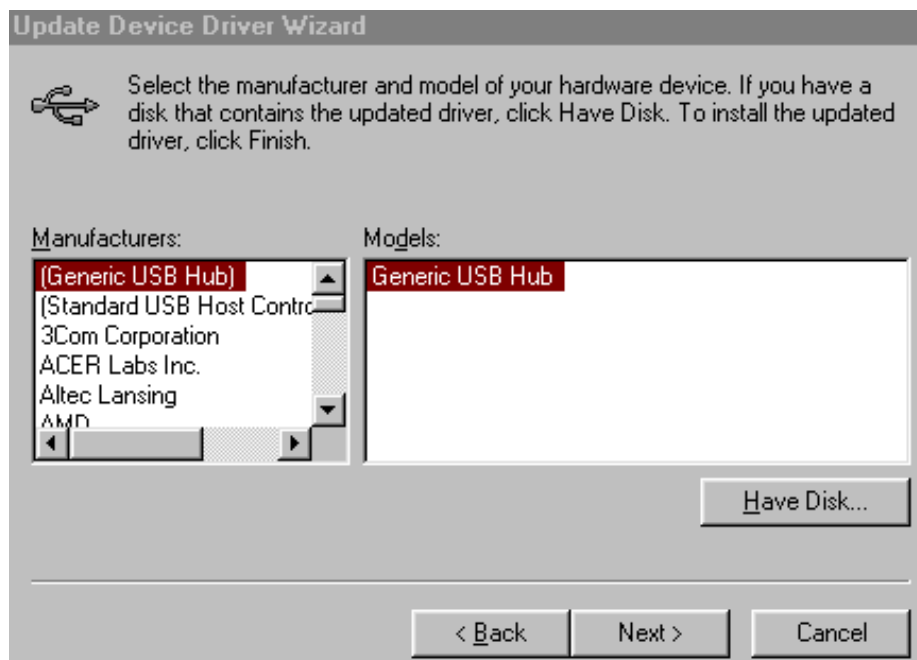


Figure C-6. Update Device Driver Wizard Box (Find Driver)

10. From the *Install From Disk* dialog box, click **Browse**. See [Figure C-7](#).



Figure C-7. Install From Disk Dialog Box

11. Browse to the following file:

c:\Program Files\DatagraphiX\ImageMouse\anacomp.inf

See [Figure C-8](#) on page C-7.

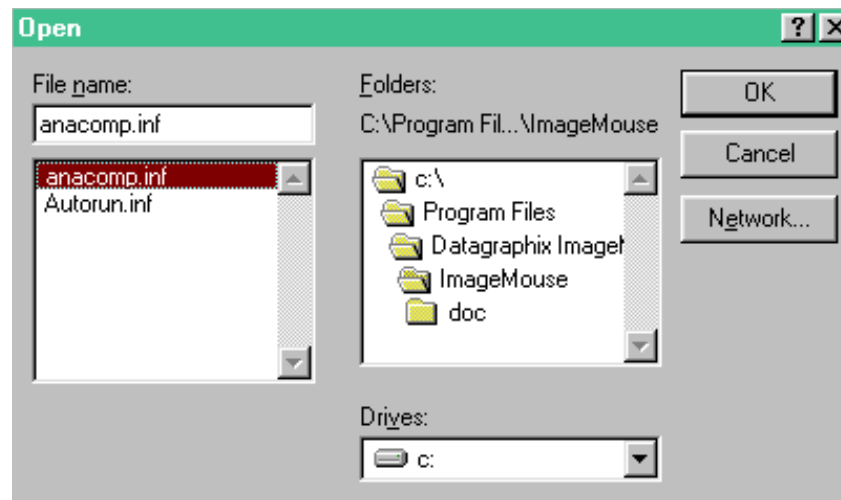


Figure C-8. Open Dialog Box

12. With the *File name* field containing `anacomp.inf`, click **OK**.
13. When the *Install From Disk* dialog box reappears with the Copy manufacturer's files from: field containing:
`c:\Program Files\Datagraphix ImageMouse\ImageMouse\anacomp.inf`
 click **OK**.
14. On the next wizard box, in the *Models* list area, click (highlight) `Datagraphix USB Device`. See [Figure C-9](#).

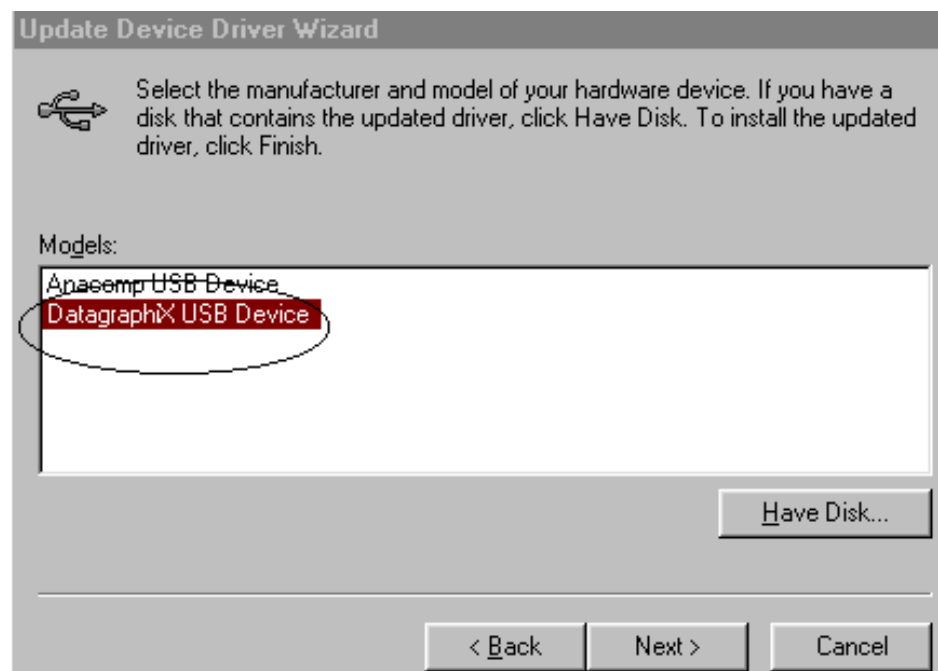


Figure C-9. Update Device Driver Wizard Box (Select Driver)

15. Click **Next**.

16. When the *Device Driver Update Warning* dialog box appears, click **Yes**.

17. On the next wizard box, click **Next**.

Windows 98 begins to install the DatagraphiX USB Device (ImageMouse) driver.

Note: If prompted to insert the Windows 98 installation CD into the CD drive, do not do so. Instead, browse to the file:

`"c:\Program Files\DatagraphiX ImageMouse\ImageMouse\anacomp.inf`

18. After Windows finishes installing the ImageMouse driver, click **Finish** on the last wizard box.

19. When the *USB Device Properties* dialog box reappears, click **OK**.

20. When the *System Properties* dialog box reappears, the *DatagraphiX USB Device* line should be listed underneath the *Universal Serial Bus controllers* line as shown on [Figure C-1](#) on page C-1. Also, the ? *USB Device* line underneath the *Other Device* line should disappear.

Note: After the ImageMouse Plus software is installed and when Windows 98 connects the ImageMouse Plus, sometimes it prompts to insert the Windows 98 installation CD into the CD drive. If this occurs, do not insert the Window 98 CD into the CD drive. Instead, browse to the:

`c:\Program Files\DatagraphiX ImageMouse\ImageMouse\anacomp.inf`

file and click **OK** to install the ImageMouse driver.

Future Enhancements

DatagraphiX is working on the following ImageMouse Plus enhancements:

- More image-manipulation tools, for example—built-in de-skew, crop, and rotate tools.
- Roll-film support for a variety of roll-film formats, for example—3M, Kodak, ANSI
- Windows 2000 support
- Windows NT support
- Support for more frame sizes
- Faster refresh rate

Comment Form

If you have any comments regarding the *DatagraphiX ImageMouse Plus User's Guide* (including its content, organization and format), use this form to communicate them directly to Anacomp. If you have received any revision pages to update this book, please identify them. Your comments will be reviewed and appropriate action taken, as necessary. Note that Anacomp may use or distribute the information you supply without incurring any obligation to you.

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ImageMouse Plus patent pending
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