**ImageMouse Tablet
and
ImageMouse PLUS**

Installation & User Guide

TABLE OF CONTENTS

Installation Instructions for Windows 98SE, ME, NT & 2000

1. Remove previous versions of software using the control panel.
   a. Click **START**
   b. Select **SETTINGS**
   c. Click **CONTROL PANEL**
   d. Select **ADD/REMOVE PROGRAMS**
2. Unplug the ImageMouse and all other devices from the computer's USB ports.
3. Install ImageMouse version 3.5 using the CD provided.
   a. Insert ImageMouse disk into the CD/DVD drive.
      (If your computer has auto-run on its CD/DVD drive go to step e.)
   b. Click **START**
   c. Select **RUN**
   d. In the select box type **d:\setup** then press **ENTER** (assuming d is the CD or DVD drive letter)
   e. Follow instructions on the setup screens.
   f. Restart the computer and plug in the USB cable into the USB port in the back of the computer. For Windows 98SE, ME or NT 4.0 go to **step j**. For Windows 2000 got to **step g**.
   g. This will bring up the New Hardware wizard, click **NEXT.**
   h. Select search for suitable drive (i.e. CD-ROM drive) and click **NEXT.** The wizard will find the file named **anacomp.inf** on the install CD click **NEXT**.
   i. The wizard will next need a file named anacomp.sys click BROWSE it is located on the install CD under **win2000_sys** double click the file, click **OPEN** and click **OK**.
   j. Click **FINISH**, and restart the computer.

Set up Screen Images for Windows 98SE, ME, NT4.0 and 2000 are shown below.

Set up Screen Images for Windows 98SE, MR, NT4.0 and 2000 continued.
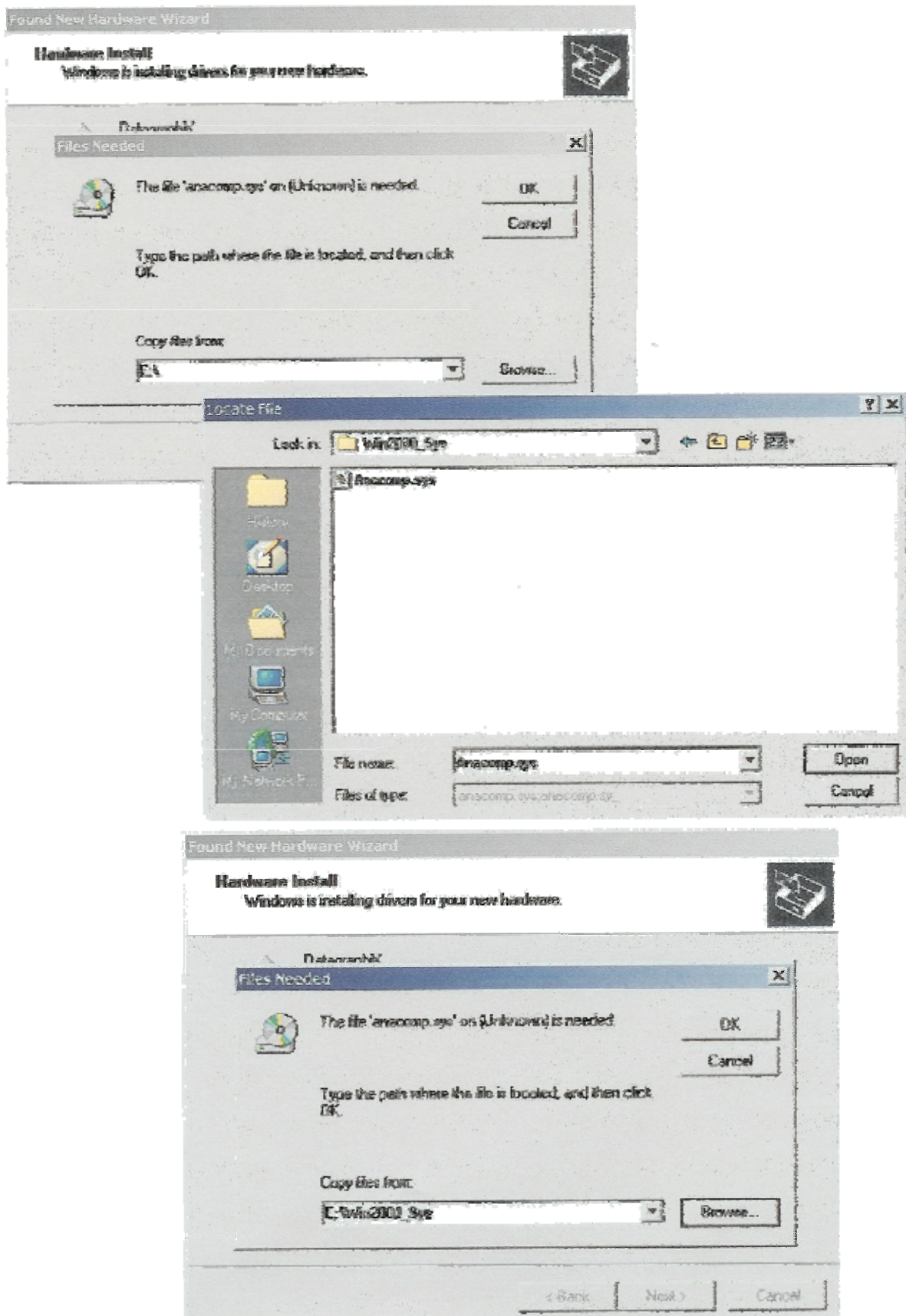
Set up Screen Images for Windows 98SE, MR, NT4.0 and 2000 continued.

For Windows 2000, after installing driver, open the ImageMouse application by double clicking on the ImageMouse Icon. The light will come on. If the window stating "Lost USB Communication" pops up, click "ok".

Install the Driver again. (follow Steps g through j)

Open the ImageMouse Application. This will bring up an image on the screen. Remove the install CD.

If all fails try other USB ports and follow the same procedure.
Note: Disconnect all other USB devices from the computer if you are having problems installing the ImageMouse.

USB Controller Chipsets Compatibility
After extensive testing, the following PCI to USB controller chipsets are recommended for the respective operating systems:
1. Microsoft Windows 98SE, ME and Windows 2000:
    - INTEL
    - AMD
2. Microsoft Windows NT4.0 with Service Pack 6.0 or later:
    - INTEL
    - AMD
3. Microsoft Windows XP S1 & S2
    - INTEL
    - AMD

Please read these instructions carefully. If further assistance is required please call 1-800-558-2153.

Installation Instructions for Windows XP platform

The ImageMouse runs on the XP platform provided it is set up using NTFS, has the latest XP service pack installed and the ImageMouse software compatibility is set for Windows 2000.

Steps to Install:
1. Verify you are using NTFS. If not, covert your computer to NTFS by following the procedure listed below.
2. Install software and reboot.
3. Connect hardware, which will bring up the found new hardware wizard.
4. Follow the wizard using the files on the CD to install.
5. Set the compatibility of the ImageMouse software to Windows 2000
6. Test ImageMouse
7. Suppress USB warnings

Installation Procedures:

Step 1: Verify your file system
Using windows explorer right click on the drive you will be installing the software on and select properties this will display the details of your drive if it is NTFS you can continue with install instruction software. If you have FAT32 you need to convert to NTFS.

Converting to NTFS: Using the Setup Program
The Setup Program makes it easy to convert your partition to the new version of NTFS, even if it used FAT or FAT32 before. This kind of conversion keeps your files intact (unlike formatting a partition). Setup begins by checking the existing file system. If it is NTFS, conversion is not necessary. If it is FAT or FAT32, Setup gives you the choice of converting to NTFS. If you don't need to keep your files intact and you have FAT or FAT32 partition, it is recommended that you format the partition with NTFS rather than converting from FAT or FAT32. *(Formatting a partition erases all the partition and allows you to start fresh with a clean drive.)* However, it is still advantageous to use NTFS, regardless of whether the partition was formatted with NTFS or converted.

Converting to NTFS: Using Convert.exe
A partition can also be converted after Setup by using Convert.exe. For more information about Convert.exe, after completing Setup, click START, click RUN, type cmd, and then press ENTER. In the command window, type help convert, and then press ENTER. It is easy to convert partitions to NTFS. The Setup program makes conversions easy, whether your partitions used FAT, FAT32 or the older version of NTFS. This kind of conversion keeps your files intact (unlike formatting a partition).

To find out more information about Convert.exe
1. After completing Setup, click **Start**, click **Run**, type **cmd**, and then press **ENTER**. In the command window, type help convert and then press **ENTER**, Information about converting FAT volumes to NTFS is made available.

To convert a volume to NTFS from the command prompt
1. Open Command Prompt. Click **Start**, point to **ALL PROGRAMS**, point to **ACCESSORIES**, and then click **Command Prompt**.
2. In the command prompt window, type: **convert drive_letter: / fs : ntfs**

For example, typing *convert D:/fs:ntfs* would format drive D: with the ntfs format. You can convert FAT or FAT32 volumes to NTFS with this command. Important: Once you convert a drive or partition to NTFS, you cannot simply convert it back to FAT or FAT32. You will need to reformat the drive or partition which will erase all data, including programs and personal files, on the partition.

Installation Instruction for ImageMouse Software
Note: If you have any versions earlier than 3.5.3 ImageMouse Software please follow the steps below. If this is your first ImageMouse software installation skip to main Step 2.

1. Remove previous versions of the ImageMouse Software using the control panel.
    a. Click **START**.
    b. Select **SETTINGS**
    c. Click **CONTROL PANEL**
    d. Select **ADD/REMOVE PROGRAMS**
2. Unplug the ImageMouse and all other devices (such as USB mouse, keyboard, drives, etc.) from the computer's USB ports.

Step 2:
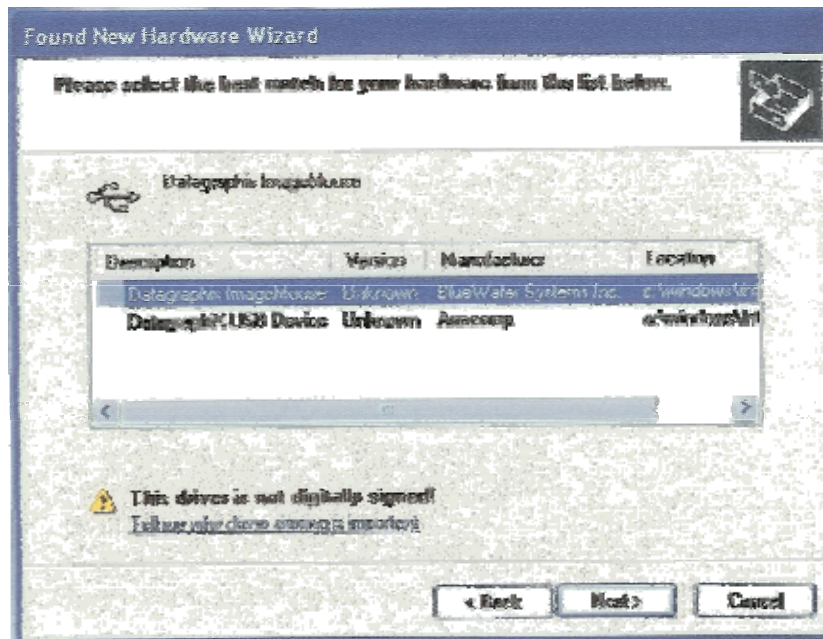Install ImageMouse Version 3.5.3 using the CD provided.
1. Insert disk into the CD in your CD-ROM drive. If your computers has auto-run on it's CDROM drive go to step 5.
2. Click START.
3. In the selected box type d:\setup then press ENTER (assuming d is the CD_ROM drive)

Set up Screen Images for Windows XP.

Set up Screen Images for Windows XP continued.

Set up Screen Images for Windows XP continued.

Found New Hardware Wizard

Please wait while the wizard installs the software....

Files Needed ✕

The file 'anacomp.sys' on (Unknown) is needed.

OK

Cancel

Type the path where the file is located, and then click OK.

Copy files from:

D:\WIN2000_SYS   ▼   Browse...

< Back   Next >   Cancel

Locate File   ? ✕

Look in: Win2000_Sys   ▼

Anacomp

My Recent Documents

Desktop

My Documents

My Computer

My Network

File name: Anacomp.sys   ▼   Open

Files of type: anacomp.sys(anacomp.sys)   ▼   Cancel

Set up Screen Images for Windows XP continued.

9
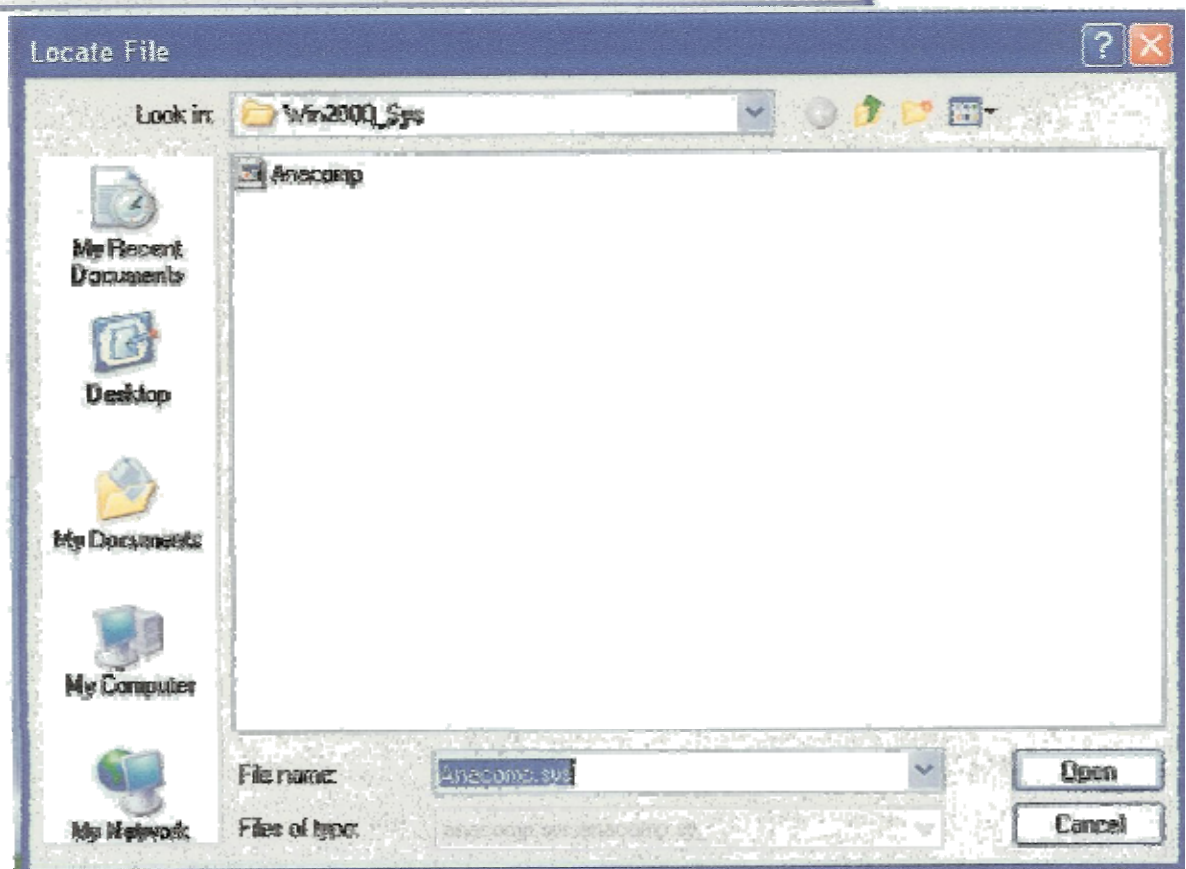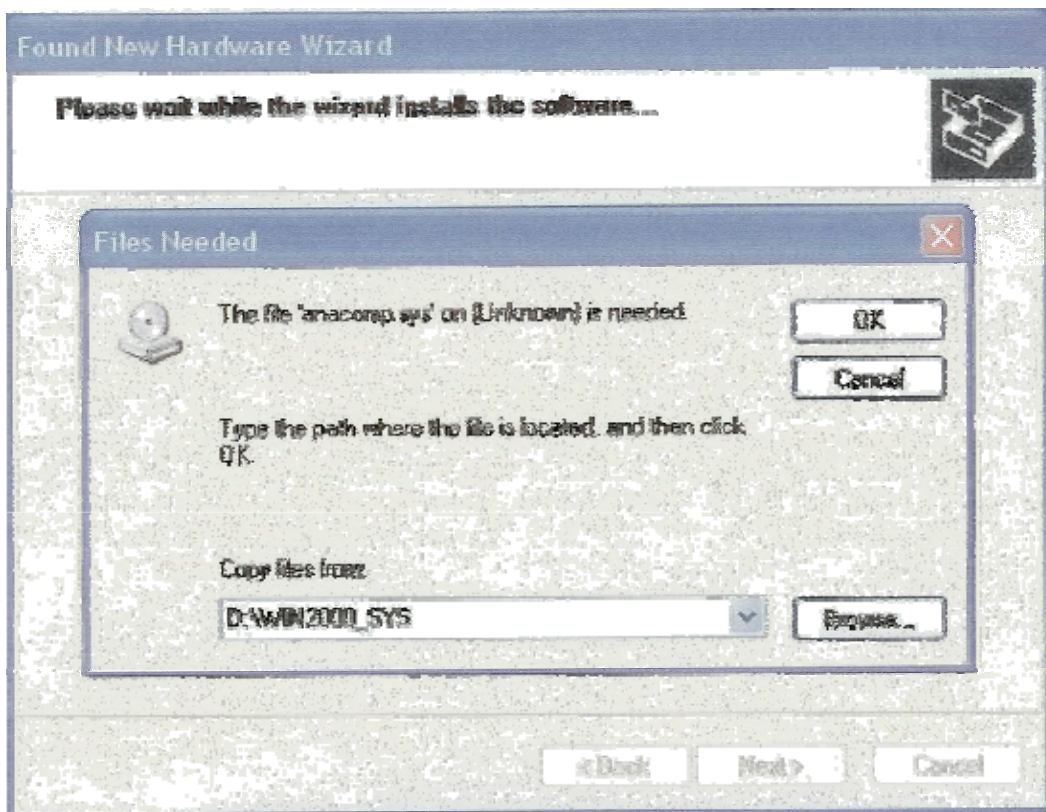
Step 3:
After installing driver, plug the ImageMouse USB into the back of the computer. Open the ImageMouse application by double clicking on the ImageMouse Icon. The light will come on. If the window stating "Lost USB communication" pops up, click "ok". Exit the ImageMouse application, then:
- Turn off Computer
- Unplug the ImageMouse USB cable

Step 4:
Install the drive again (Follow steps 7 through 11). Open the ImageMouse application. This will bring up an image on the screen. Remove the install CD. If all fails try other USB ports and follow the same procedure.
Note: Disconnect **ALL** other USB devices from the computer if you are having problems installing the ImageMouse.

Step 5: Set the compatibility of the ImageMouse Software.
Right click on the ImageMouse Icon and select properties and then click on the compatibility tab. Click on the Windows 2000 option and click apply.

Step 6: Test Image Mouse
Double click the ImageMouse Icon and try out the ImageMouse it should operate normally.

Step 7: Suppress the USB Messages
The ImageMouse USB driver has not been digitally signed so the operating system will not recognize the ImageMouse as a USB device. It will run but it will display a message often when shutting down the ImageMouse system. The following procedure is optional to suppress the USB message. Right click on **My Computer** select **Properties** the go to the **Hardware** tab click **Device Manager.** Next click on **Universal Serial Bus Controller** and right click on the **Universal Host Controller** that is controlling the ImageMouse. Click on the **advance** tab and check the "**Don't tell me about USB errors**". Click **OK.**

Note: Once successfully installed and operating **DO NOT** unplug the ImageMouse USB cable while the computer power is on. **Turn the computer off and unplug the USB cable.**

User Guide

CHAPTER 1
Introduction
This manual describes the Eye Communications ImageMouse PLUS Digital Retrieval System. This product enables you to easily view, print, and save documents in a digital format.

ImageMouse PLUS Basics

The ImageMouse PLUS system enables you to:

- Digitally capture an image from either a:
  - 42X or 48X microfiche, jacket or roll film
  - 24X or 28X microfiche, jacket or roll film
  - Original negative or positive film
  - Diazo or vesicular duplicate film

- Display that image on your monitor
- Reverse the polarity (negative, positive) of the image
- Save the image on your hard disk in either a JPEG, TIFF, BMP or CMP
- Output the image either to a printer, or distribute as needed like any other image file (ie. An e-mail attachment, save to a server or burn onto a CD)
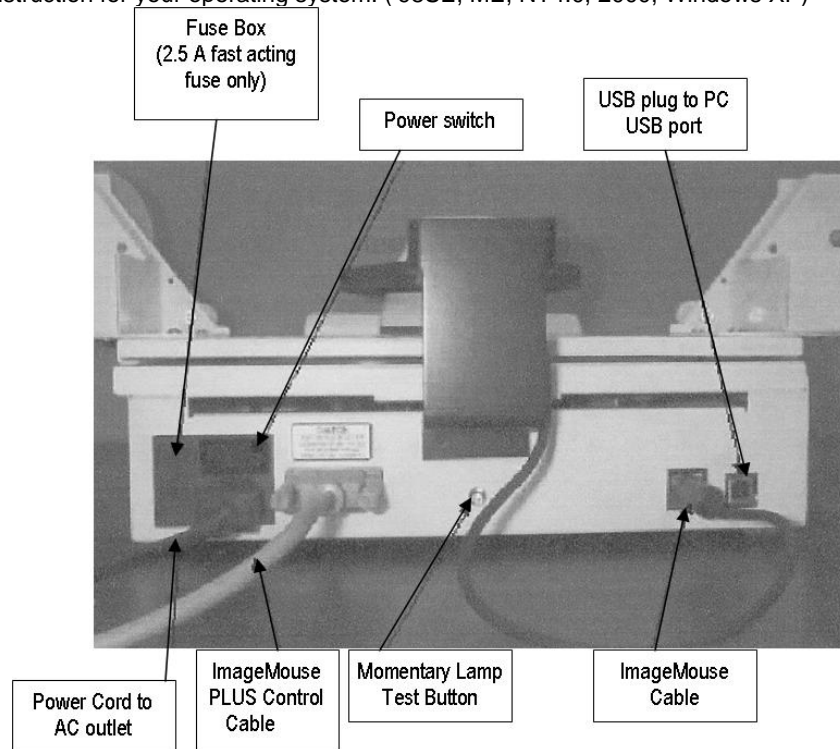
Manual Limitations
This manual does not contain basic computer usage and general navigation procedures for applications running under Microsoft Windows (such as opening menus, choosing commands, mapping drives, and so on). Refer to Windows documentation for these basic computer techniques.

CHAPTER 2
Hardware installation
(Refer to your installation instruction for your operating system. ('98SE, ME, NT4.0, 2000, Windows XP)

Figure 2-1 with labels: Fuse Box (2.5 A fast acting fuse only), Power switch, USB plug to PC USB port, Power Cord to AC outlet, ImageMouse PLUS Control Cable, Momentary Lamp Test Button, ImageMouse Cable

Figure 2-1 ImageMouse PLUS Tablet Connector-Receptacle Depiction

To install the ImageMouse PLUS hardware, connect the ImageMouse PLUS assembly's four cables, which are the:

- ImageMouse PLUS cable
- USB cable
- AC power cord
- 5V DC power-adapter cord-only used with ImageMouse Tablet

To do so, perform the following steps while referring to Figure 2-1

1. Plug the ImageMouse PLUS cable's DIN connector into its receptacle with arrow on top at the back of the ImageMouse PLUS
2. Plug the appropriate end of the USB cable into a USB receptacle at the back of your PC.
3. Plug the female end into the power connector of the ImageMouse PLUS, plug the male end of the PC power cords into the AC power outlet. (If Tablet version the: 5V DC adapter, plug the male into the back of the Tablet.)

If problems occur follow installation instructions for your type of operating system.

Notes:
- To test the lamp, which is off when ImageMouse PLUS is not operating, momentarily press the lamp-test button.
- The ImageMouse PLUS must be the only hardware utilizing USB during time of use. Also, the user must use a rear USB port, not from the front.
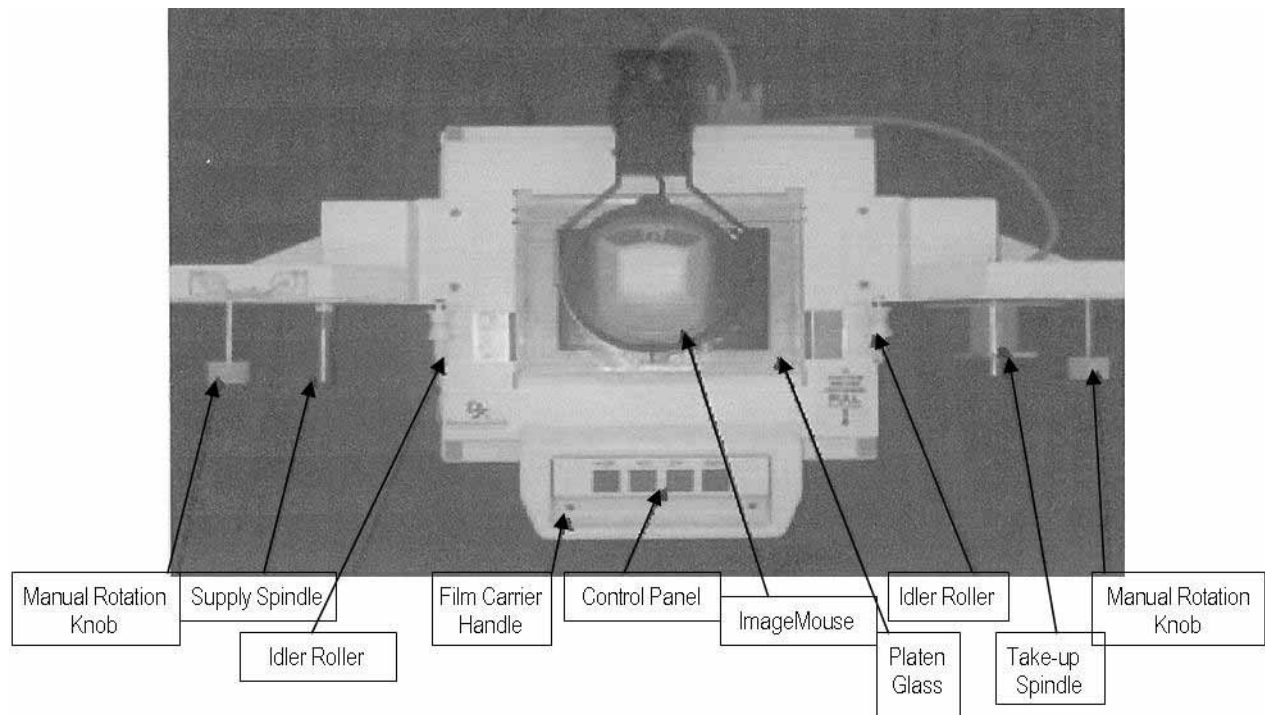

CHAPTER 3
Operation
The ImageMouse PLUS operates in one of two modes and, after a period of inactivity, automatically reverts to a third standby mode:

1. Fast-Search Mode (Default)

2. Full-Resolution Mode
3. Power-Saving Mode (illuminated lamp turns off)
*ImageMouse PLUS and ImageMouse Tablet are multi-voltage products; can be plugged into 100V or 250V AC outlets, power supply will switch automatically.

Figure 3-1 ImageMouse PLUS

<u>Startup</u>
To start operation of the ImageMouse PLUS:
- I)   Ensure that the ImageMouse PLUS software and hardware are installed according to the instructions contained in Chapter 2.
- II)   Ensure that the microfiche or microfilm is loaded and ready for viewing
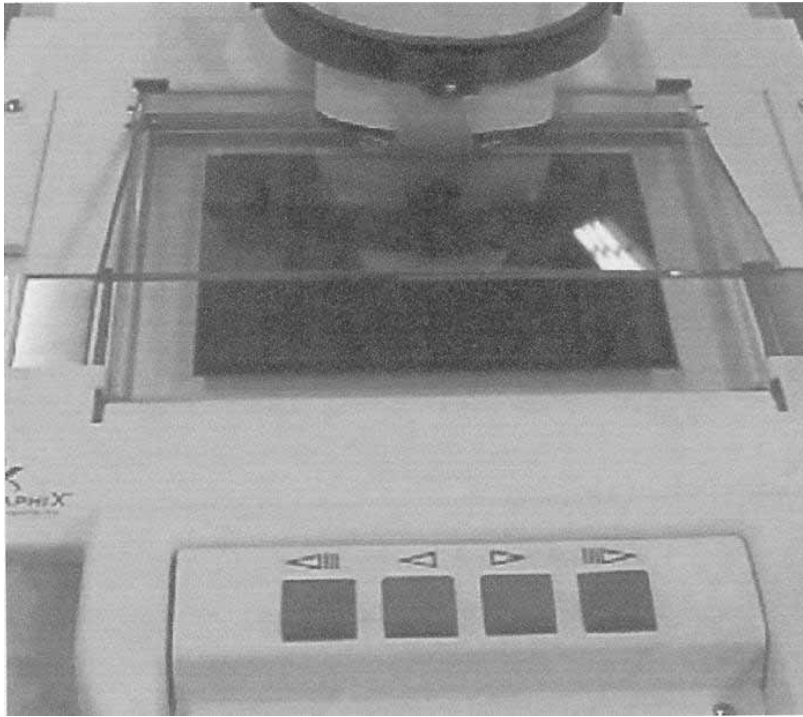
- A) Loading a cut microfiche to the ImageMouse Tablet:
    1) Depending on the reduction ratio of the ImageMouse Tablet, place either a 24X/28X or a 42X/48X blue overlay grid card beneath the tablet's hinged glass plate. (One side is low magnification and the flip side is high magnification)

    2) Place the microfiche to view beneath the glass plate and over the lit area of the tablet mouse.
- B) Loading a microfiche/film to the ImageMouse PLUS
    1) Loading a cut fiche to the ImageMouse PLUS:
        (a) Using the Film Carrier Handle to pull the Film Carrier all the way out so that the upper platen glass opens up.
        (b) Load a cut fiche between the lower and upper platen glasses. Make sure the title is oriented toward the rear of the ImageMouse PLUS unit.
        (c) Push the Film Carrier back in using the Film Carrier Handle. The upper platen glass should be automatically close down.

13

Figure 3-2 Loading a Microfiche

B) Loading a roll film to the ImageMouse PLUS (roll film equipped unit only)
    1) Using the Film Carrier Handle to pull the Film Carrier all the way out so that the upper platen glass opens up.
    2) Install a roll of film on to the supply side spindle.
    3) Thread the film to the take-up side as shown on the below illustration.

Figure 3-3 Loading a Roll Film

C) Using the Film Carrier back in. The upper platen glass should close down.
    1) On the Windows' Desktop, double click the ImageMouse PLUS icon.
    2) The ImageMouse PLUS main window appears on the PC monitor and displays a picture of the ImageMouse PLUS assembly during ImageMouse PLUS initialization.
    3) A pause occurs while ImageMouse PLUS initializes. Then the USB activity indicator blinks. Then, it enters Fast-Search mode and displays the portion of the microfiche image that is beneath the ImageMouse PLUS lenses.
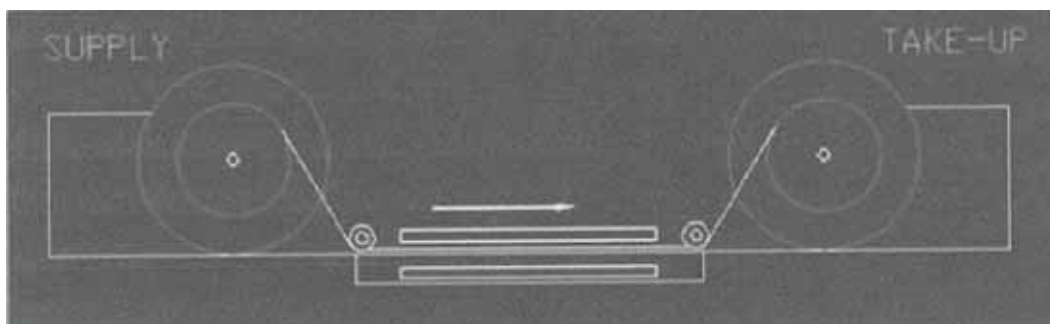
Figure 3-4 Film Path

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 on the microfiche or for adjusting exposure, background, and image focusing.

Search Options
Fast-Search mode opens using the Medium-Speed Full-Page option, which is one of three ways of searching for an image:
- Full-Page
- Zoom 2 X
- Zoom 3 X

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

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

Intensity Control	Description
Gray Level	Set the amount of gray portion of the image to convert to black so that it compresses more to increase its transmission rate. This control has seven levels of gray. The right-most gives less grays (positive film), and the left-most gives more grays (negative film).
Film Text	To select the film type, which enables the ImageMouse PLUS to compress data more efficiently; for a faster data-transmission rate and an optimal image-refresh rate.
Black	For viewing film with dark text on a clear background-positive film.
White	For viewing film with clear text on a dark background-negative film.
Exposure	To manually adjust the light intensity of the overall image.

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

Image Focus

To focus the image, slowly roll (in either direction) the Focus wheel, which is located at the front of the ImageMouse PLUS between its left and right buttons. **Notes**: Gray level and Exposure adjustments should be performed prior to focus adjustments.

- 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 an 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.
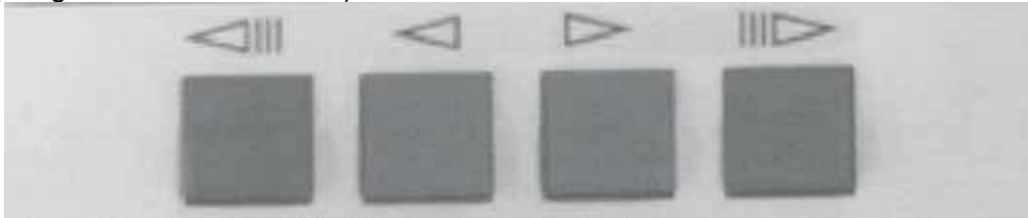
Reduction Ratio

To select one of the four reduction ratios, from the Reduction drop down list, click either 24X, 28X, 42X, or 48X. Only two of these are available for each ImageMouse PLUS imager.

Locating a Page

1) Fiche:
- Use the Film Carrier Handle to move the Film Carrier around to search for the image. (ImageMouse PLUS ONLY)

Figure 3-5 ImageMouse PLUS Motorized Roll Film Control Panel

2) Roll Film

- The film can be forwarded or reversed using the Forward Button, Fast Forward Button, Rewind Button, or Fast Rewind Button. These control buttons are located on the control panel of the ImageMouse PLUS.
- Users can also use the Manual Rotation Knob to manually move the film in the forward or reverse direction.

Note: Pressing the Fast Forward Button, or Fast Rewind Button while the Film Carrier is out all the way with the upper platen glass open will result in the fastest forwarding and rewinding speed.

16

Image Rotation

The display image can be rotated 90 degree clockwise or counter clockwise by physically rotating the ImageMouse PLUS as shown on the below illustration.
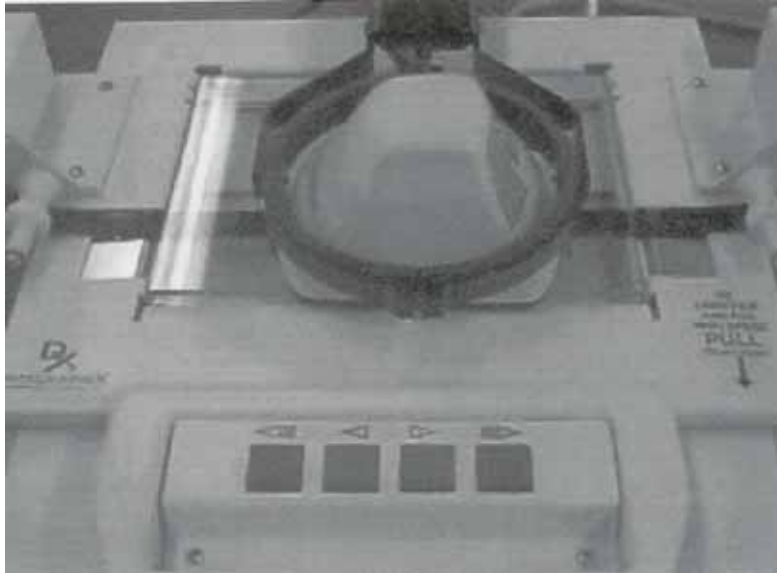
Figure 3-6 Rotating ImageMouse PLUS

Full-Resolution Mode

After the proper image is found and displayed using the Fast-Search mode, click the Full-Resolution mode, which gives the image a higher resolution (and slower image-refresh rate- for further processing, such as for viewing, zooming, panning, saving, and printing.

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.

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. **Note**: You can save and print and inverted image.

Cropping

You can now define the area you want to view, save, and print. To crop, you click the cropping icon, or click the set crop button. The cursor becomes a cross; you then drag a rectangle around the area you want to use. This eliminates the need for the 8.5 x 11 and 11 x 14 masking. To print a cropped area, you right click and a menu appears, you have the option of printing at 100% (actual size), 200%, 300% or Maximum size (formatted to fill the page). You can also save the image or copy to the clipboard.

Printing

To print a particular image:
1. In the Fast-Search mode, move the ImageMouse PLUS to find and display the image to print.
2. Either select the Auto check box or adjust the Background 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 button
7. In the Save as type field, click the appropriate format from a dropdown list of Five types, which are:
    - JPEG 8-bit (*.jpg)
    - BMP 8-bit (*.bmp)
    - TIF 8-bit (*.tif)
    - TIF G4 (*.tif)
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.

Auto Save
Auto Save allows you to save images quickly and in sequence.
To Auto Save:
1. Click the Set Auto Save button this brings up the Set Auto Save box, fill in the name of the first file (alpha characters only), file destination and file type.
2. When the Save as box appears the file name is automatically assigned for you with the increment. When you have the next image ready to save, click Auto Save and the file name plus the increment is automatically for you. Just click ok.

Power Saving Mode
After approximately 15 minutes of ImageMouse inactivity, the lamp automatically switches off to both conserve energy and protect the loaded microfiche from overexposure. An ImageMouse warning dialog box appears.

Figure 3-17 ImageMouse PLUS Warning Dialog Box

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

APPENDIX A
Controls
You can control the ImageMouse by using commands and controls with the:
- Menu Bar
- Toolbar
- ImageMouse PLUS Window
- Imager
- 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
Save	To save the image that is displayed in the ImageMouse PLUS window to a graphics file on the hard disk.
Auto-save	To save a series of images with something in common to files with the same prefix and incremental numerical suffixes. (ie. Newimage001.jpg; newimage002.jpg, etc.)
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 Print dialog box.
Exit	To exit and shut down the ImageMouse PLUS program.

Image Menu

The Image menu contains three options:

Option	Description
Copy	Copies the image on the ImageMouse PLUS window to the Windows clipboard from which you can paste it to other application programs.
Crop	Enables cropping (exact retrieval of a portion of the image rather than the entire viewing window) for saving and printing purposes.
De-speckle on Save	Enables an image enhancement process for images that typically leave speckles on the screen when saved. (Not recommended for saving TIFF images)

Help Menu (Do **NOT USE** for versions 3.5.1 and above)

The Help Menu contains three options:

Options	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 PLUS	Displays information about the development of the ImageMouse PLUS product.

Toolbar

The Toolbar contains five icon buttons, four of which invoke the same options as do their counterparts from the menu bar (from left to right):

- Save File (refer to the Save option under "File Menu")
- Copy File (refer to the Copy option under "Imager Menu")
- Print Image – performs the same function as the button on the left margin which alternately reads 'Set Crop' or 'Reset Crop' depending if the crop feature has been enabled or not.

ImageMouse PLUS Window

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

Tool	Description
Full Resolution	To display the image in full resolution (mutually exclusive with Fast Search)
Live Image	To update the image from the ImageMouse PLUS capture cycle (mutually exclusive with Freeze)
Freeze	To freeze the image display for printing or saving (mutually exclusive with Live Image)
Zoom	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
Fast-Search	To search for data that is on the microfiche under the ImageMouse PLUS. It has a faster image-refresh rate and a lower image resolution than does full-resolution mode with which it is mutually exclusive.
Full Page	Used in fast-search mode. Refreshes faster than full resolution mode. The image resolution is decimated by 50% where every other pixel is displayed, skipping the next one
Zoom 2X	To display the upper-left-one-fourth of the full-resolution image. Refreshes faster than does full resolution mode.
Zoom 3X	To display the upper-left-one-ninth of the full resolution image. Refreshes faster than does full resolution mode.
Gray Levels	To set the amount of gray portion of the image to convert to black so that it compresses more to increase its transmission rate. This control has seven levels of gray the right-most gives less grays (for positive film) and the left-most gives more grays (for negative film)
Film Text	To switch from to black or white text viewing.
Exposure	To manually adjust the light intensity of the image data. Dragging the scroll bar to the left decreases the light intensity.
Reduction	To select the reduction ratio of either 24X, 28X, 42X, or 48X depending upon both the ImageMouse PLUS magnification setting and the reduction ratio of the microfiche.
Cropping	To crop image see instructions on page

ImageMouse PLUS Focus Control
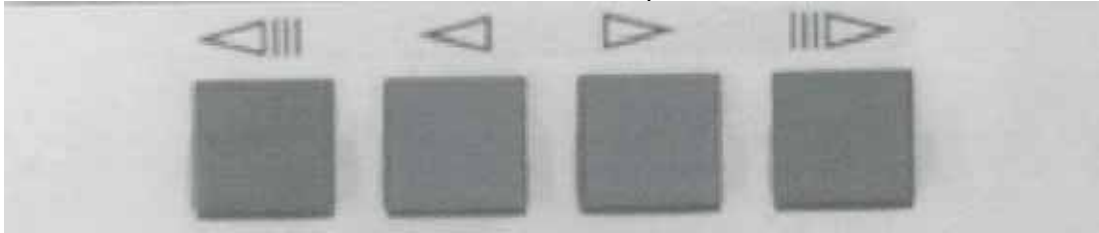
The focusing wheel is located on the imager itself (mouse)

Control	Description
Focusing Wheel	To focus the ImageMouse PLUS lens on the microfiche. (left and right mouse buttons have been disabled and are no longer used)

ImageMouse PLUS Motorized Roll Film Controls
The ImageMouse PLUS has four control buttons on its control panel.

Figure A-1 ImageMouse PLUS Control Panel

Control	Description
Fast Rewind Button	Moves the film in reverse direction with the medium speed.
Rewind Button	Moves the film in reverse direction with the slowest speed.
Forward Button	Moves the film in forward direction with the slowest of speed
Manual Rotation Knobs	Manually moves the film in reverse or forward direction with the medium speed.

Note: Pressing the Fast Forward Button, or Fast Rewind Button while the Film Carrier is out all the way with the upper platen glass open will result in the fastest forwarding or rewinding speed.

Hot Keys
When the ImageMouse PLUS program is active, some of the keys perform ImageMouse PLUS-specific commands.

Key	Description
Crtl – P	To print file
Crtl – S	To save file
Crtl – C	To edit/copy a file
Crtl – X	To edit/cut
Crtl – A	To AutoSave

Note: For help files; please refer to printed manual for assistance.

APPENDIX B
Frequently Asked Questions (Q&A)
Q: What other devices can I connect on the same USB hub?
A: Typically, any USB-compliant device can connect to the same USB hub, but it is recommended not   to run any other USB devices while running ImageMouse PLUS. Insufficient resources allocated to the ImageMouse PLUS may cause it to be unstable.
Q: What do I check or do if the mouse freezes?
A: Usually, the cause is an unstable power supply. A full-system reset should correct this problem.
1. If possible, close the ImageMouse PLUS program
2. Shut down PC
3. Unplug the power cord from the ImageMouse Base
4. Replug the power cord into the ImageMouse Base
5. Restart the PC
6. Restart the ImageMouse Software

Note: If the problem persists, contact Eye Communications Customer Service.
Q: How can I better focus my prints?
A: A poor image can be improved by:
- Adjusting display setting
- Adjusting gray level setting

- Adjusting exposure setting
- Adjusting focus adjustment

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

Display Settings

1. Right-click anywhere on the empty area of Windows Desktop
2. In the pop-up menu, click Properties.
3. Click the Settings tabs.
4. Ensure that High Color (16-bit) or higher setting appears in the Color field.
5. If it does not, click the field's down arrow and select High Color (16 bit or higher setting).
6. Slide the resolution control all the way to the right (highest resolution for selected monitor and computer graphics card)
7. Click Apply.

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, as 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.

Q: How do I copy a microfiche image to another program?

A:

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

Q: How can I copy or print just a section of the image?

A: See Cropping Instructions on page

APPENDIX C
Trouble Shooting

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 controller's line. Beneath should appear at least three lines – Eye Communications (ImageMouse) USB Device, USB Root Hub, and VIA Tech 038CI to USB Universal Host Controller. (Your PC's motherboard may have different chipset in which case the last line would be different.)

Figure C-1 System Properties Dialog Box

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

The Device Manger 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. Refer to "How to Enable USB".

The Device Manager page detects no ImageMouse PLUS, 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.

Other Troubleshooting

1. Check all cable connections: USB and Power Cords
2. Problem with ImageMouse connection check cable, check pins (bent or misformed), push straight in to insert DO NOT TWIST connector.

Note: If prompted to insert your Windows installation CD, do not do so. Instead, click OK and browse to file: C:\windows\inf.anacomp.inf (found on ImageMouse PLUS disc)

If you have any comments regarding the Eye Communication ImageMouse User's Guide (including its content, organization and format), please contact us directly. Your comments will be reviewed and appropriate action taken, as necessary.

<div align="right">

Eye Communication Systems, Inc.
455 Industrial Drive, P.O. Box 620
Hartland, WI 53029
(800) 558-2153
www.eyecom.com

</div>

Eye Com registered trademark of Eye Communication Systems, Inc./ ImageMouse PLUS is a trademark of Eye Com, Inc.

ImageMouse Survey

This survey can be used to qualify your customers to ensure they will have a successful ImageMouse experience by meeting the requirements of the ImageMouse.

1. What type of fiche or microfilm (i.e.16mm, 35mm, 3M Cartridge) are you using? The ImageMouse can handle 24X - 48X as well partial viewing of 35mm.
2. What is the clock speed of your computer? ImageMouse runs best on at least 800 MHz. To find out the speed go to My Computer, right click and select properties. It will display the system's specifications.
3. How much RAM is installed on your machine? (256 MB RAM or more is recommended). To find out the amount of RAM go to My Computer and right click, select properties and it will display the system's specs.
4. Are your USB connections integrated into your motherboard? (add on cards have not been tested). To find out if your computer has an add on card for it's USB connection, open the case and trace the USB port from the outside to it's connection to the motherboard.
5. Is your motherboard Intel®? (other chip sets are <u>not</u> compatible). A Pentium III is the minimum requirement. To verify right click on My Computer and select properties and it will display the type of motherboard used.
6. Is your USB host controller Intel®? (these manufacturers' chipsets are not recommended to be used, OPTI, AMD, ALI, and CMD). To verify your host controller, right click My Computer and select properties and click on the Device Manager tab, click the USB icon and it will list the host controller.
7. Do you have newer video card? (A video card with at least 64 MB of video RAM is recommended, 128 MB preferred). To check the video RAM you can right click on the desktop, select properties, then settings. Click the Advanced button and select adapter. This should display the RAM (all video cards have a slightly different interface).
8. Are other USB devices attached to the computer? (the ImageMouse needs 80% of the USB bandwidth).
9. Is your computer a Compaq? (Compaq has proprietary protocols that prevent ImageMouse from running on them).
10. Are you using a laser printer? (ink jet printers leave a haze over the print and do not have enough memory to handle the demands of the print job, 1MB is adequate.

Revised November 2004

ImageMouse Quick Reference Operating Instructions

ImageMouse Control Panel Descriptions:

Viewing and working with film using the ImageMouse PLUS or the ImageMouse Tablet is easy and rewarding. Please refer to the illustration showing what the display screen will look like. This will outline in detail the important control features:

The ImageMouse hed has on Focus wheel. Focus the film image that is displayed on the PC monitor Screen using the wheel on the ImageMouse lens see photo of lens assembly. It continuously rotates going in and out of focus by turning the wheel in either direction.

Note: The blue buttons on the left and right of the ImageMouse Imager are not connected to anything. They have been disconnected. Clicking them does nothing.

Item numbers refer to the illustration showing the ImageMouse display screen:
View number descriptions and instructions on next page.

Item Number

1.) Once the ImageMouse is completely connected to the computer the small **USB** connection indicator in the upper left side will no longer flash. The special lamp under the film or fiche will illuminate. The image of the film is shown in the "View Box". The ImageMouse will immediately enter into the "**Fast Search**" mode. This allows a low resolution image to appear in the view window for image identification purposes. A "real time, live" image is displayed.

2.) The image shown in "**Fast Search**" mode can be seen in the VIEWING AREA BOX.

3.) The Image can be viewed in "Full Page" or enlarged 2X or 3X times for viewing purposes only. It cannot print and cannot be saved in this mode. This mode is for viewing only.

4.) "**Full Resolution**" – Just slightly to the right of the USB indicator connection is the "**Full Resolution**" selection box. When selected the image in the view window is immediately set to a high resolution mode. Here there is another 2 choices while in this mode.

    4A.) LIVE mode- with this mode box checked the film or fiche can be viewed on the screen and when the film is moved the image also will move, slightly slower than actual real time. The image can be cropped, saved to PC, printed or copied to the hard drive as a JPEG, TIFF or other format of image. Adjustments to contrast or brightness along with several other features are available in the LIVE mode.

    4B.) FROZEN mode – With this mode box checked the image cannot be adjusted from gray level or exposure and it cannot be cropped. When the Imager head is moved off this image the image does not shift – it is "frozen". The USB indicator turns from a blue ball to a red thermometer symbol, indicating the image is frozen. A zoom bar (not shown in the Screen of the Control Panel) for the image appears on the lower right side of the ImageMouse control panel. In the "**FROZEN**" mode the image can be enlarged then printed saved in either full page 0% zoom or an enlarged sectional view of the image. Other image controls – are not accessible in the FULL RESOLUTION – frozen mode.

Intensity Controls

5.) "**Gray Level**" will adjust the contrast of the image. Start with this set full to the left setting.

6.) "Film Text" refers to the writing on the image. – set to black for positive film (film that is with black letters on the clear or white background) and white for negative film (film that is with white or clear letters on the black background)

7.) **Exposure** is set according to see the image easily and to print it without it being too dark or light. Start the adjustment at the left side. **HINT**: Adjust 4, 5, 6, in to get a good appearing image with little or no background and sharp black letters and numbers. What you see on the monitor will usually be the result in printing, saving, or sending the image electronically by email as an attachment. You can make these adjustments in the "Fast Search" or "Full Resolution – LIVE " Modes not in the Full Resolution – FREEZE" mode. **Mode and Image position adjustments - make adjustments in Fast Search of Full Resolution – Live image mode ONLY**.

8.) MODE- "**NORMAL**" is checked for film that is clear or white with black letters. "**INVERT**" is checked for film that is black with white letters.

9.) Flip feature lets you easily adjust for film that is placed in the viewing area without having to remove the film and place it back into the machine. "FLIP Horizontal" is for adjusting for film that is mirror backwards. "FLIP Vertical is for adjusting for film that is put in upside down.

Other Features

10.) **AUTO SAVE** – Automatically saves the image from a full resolution setting condition. See the operating manual for instructions on how to use the AUTO SAVE.

11.) **REDUCTION RATIO** – If a 24X lens is used, the 28X selection will increase the magnification slightly to 28X for viewing, saving and printing (Do not use the 42X or 48X selection if you have a 24X lens head). If the 42X lens head is used for viewing the 48X selection will increase the magnification slightly to 48X (Do not use the 24X or 28X lens selection if you have a 48X lens head).

12.) The **SET CROP** tool enables the capture of an operator selectable area to be captured for viewing saving or printing. Such as; a single page or a selection of a page can be selected for viewing or saving. Select the crop tool to use and draw a line around the area desired. Then select print and save.

13.) **ZOOM** Bar only appears when "FREEZE" mode.

14.) **HELP** button- **DO NOT USE, APPLICABLE FOR OLD SOFTWARE ONLY.**