FCC ID.: HWFA4SII

EXHIBIT 5

User's Manual

User's Manual

1200 LP User's Manual

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FCC Statement

This digital equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if it is not installed and used according to the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off or on, you are encouraged to try to correct the interference by one or more of the following measures:

- · Reorient the receiving antenna
- Increase the distance between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver
 is connected
- · Consult the dealer or an experienced radio/TV technician for help

NOTE

- 1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

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Installation

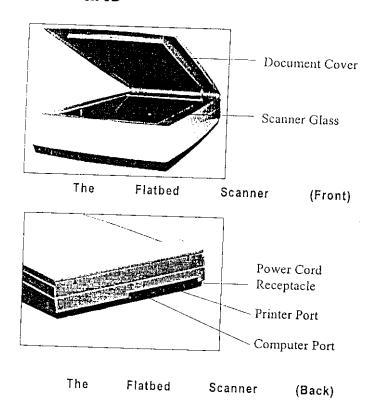
1

This chapter covers the scanner parts and describes how to connect the scanner to your computer and printer. You will also find information about the operation of the scanner.

Unpacking the Scanner Package

Carefully unpack the contents of the scanner package. Inspect the items closely and if you find any item damaged, please contact your dealer immediately. Also, save the box and packing material for future use in case you have to ship the unit.

The Scanner Parts

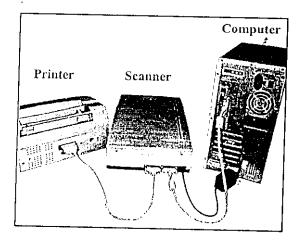


Installation

1-1

Connecting the Scanner to the PC and Printer

Refer to the following illustration and steps to install your scanner.



- 1. Power off the computer and any devices that are connected to it (e.g., monitor, printer, modem).
- 2. Disconnect the printer cable from the printer port in the back of your PC.
- 3. Take the disconnected end of the printer cable and attach it to the port in the back of the scanner marked Printer. Tighten the retaining screws.
- 4. Connect one end of the scanner cable to the printer port in the back of your PC and tighten the retaining screws.
- 5. Connect the other end of the scanner cable to the port in the back of the scanner marked Computer.
- 6. Connect the power adapter to the scanner and plug it into an appropriate power outlet.
- 7. Power on the computer and wait for the computer to finish booting.
- 8. Install the scanner driver and software by referring to the next section.

Windows 95/NT Route



Begin by inserting the Mustek 1200 LP CD.

Follow all on-screen instructions.

Note: If on-screen instructions do not appear, please refer to the following:



Click on "Start" and select "Run".

In the "Run" dialog box, type "drive (hun)" where drive is your CD-ROM drive and click "OK."



Follow all on-screen instructions.

Windows 3.1x Route

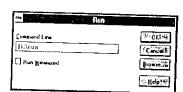


Begin by inserting the Mustek 1200 LP CD.



From Program Manager, click on the "File" menu and select "Run".

In the "Run" dialog box, type "drive:\run" where drive is your CD-ROM drive and click "OK."



Follow all on-screen instructions.

Note: Do not use the "add hardware" icon to install your scanner.

Installation

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There are two separate methods to scan an image: the Scan dialog box, which is ideal for quick and simple scans and the TWAIN dialog box, which offers more control over the output.

This chapter shows you how to:

- 1. Get (Acquire) and Use the Scan Dialog Box
- 2. Get (Acquire) and Use the TWAIN Dialog Box
- 3. Perform a Simple Scan
- 4. Position a Document
- 5. Scanning Tips

Get (Acquire) and Use the Scan Dialog Box

(For Windows 95 & Windows NT Only)
You can access the Scan dialog box in two ways.



- The Direct Scan Icon: Simply double click the left
 Mouse Button on the Direct Scan icon that is located in your
 Windows notification bar.
- 2. The Cover Sensor Dialog Box: This scanner is equipped with a Cover Sensor feature that takes you directly into scanner access mode. Simply lift the cover of your scanner and the Cover Sensor dialog box will appear. To proceed to the Scan dialog box, click "Continue".



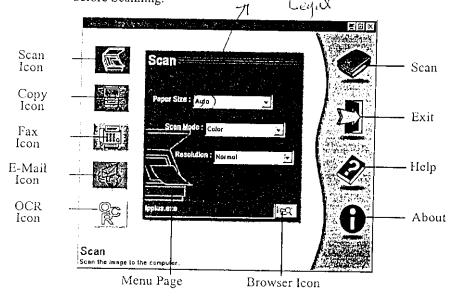
This Cover Sensor dialog box can be disabled by selecting the disable feature. By doing this the Cover Sensor takes you directly to the Scan dialog box, bypassing the Cover Sensor dialog box. To re-enable the Cover Sensor dialog box click the *right* mouse button while on the Direct Scan icon in your Windows Notification Bar. A pop-up menu appears allowing you to re-enable the Cover Sensor dialog box as well as disable or re-enable the Cover Sensor feature.



Scanning Tutorial

The Scan Dialog Box

The Scan dialog box allows you to perform several functions using your scanner (e.g. scan, copy, fax). Simply select the function that you wish to use by clicking on the appropriate icon and the corresponding menu page will appear. Be sure to make the proper adjustments in regards to Paper Size, Scan Mode, and/or Resolution before Scanning.





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Scan

Scans the image or document to the computer.



Copy:

Copies the image or document.



Fax:

Scans and faxes the image or document.



E-Mail:

Scans and sends the image or document to the Internet



OCR:

Converts the image document to a text file

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Scan:

Scans the image or document and allows for various features depending on the Scan Menu Page that you are currently in. Copies your image or document to your printer in Copy. Faxes your image or document in Fax.

E-mails your image or document to the internet in E-mail.

Scans the document for editing into your OCR software in OCR.



Exit:

Exits the program.



Help:

Offers available on-line help for all of the scanner and software functions.



About:

Shows product information.



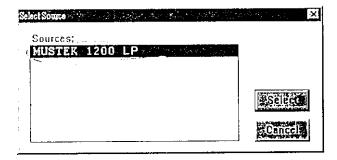
The Browser Icon: This icon allows you to select the software application you would like to open the scanned image into.

Get (Acquire) and Use the TWAIN Dialog Box

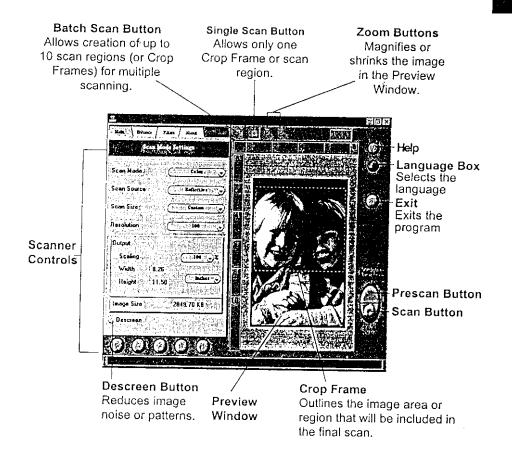
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You can call up the TWAIN dialog box from within any TWAIN-compliant software such as the application software bundled with the scanner. To get into the TWAIN dialog box, the steps are:

- 1. Launch Windows.
- 2. Launch the TWAIN-compliant program (e.g. Micrografx Picture Publisher).
- Under the File menu open the Acquire command and choose Select Source. The Select Source dialog box appears.
 Note: In some image editing software you may choose Select Source directly from the Select Source command rather than the Acquire command.



- 4. Choose your scanner in the Select Source dialog box. If there is only one source available, it is automatically selected.
- 5. Click the Select button. The Select Source dialog box closes.
- 6. Return to the File menu. Locate and click the Acquire command. The Acquire command is likely to be found beside the Select command.
 - The TWAIN dialog box appears.



The TWAIN dialog box consists of two sections - the left section where most of the TWAIN control settings are found and the right section, which is the Preview window.



Perform a Simple Scan

The steps to follow when scanning are:

- 1. Select-the scan-size.
- 2. Prescan the image.
- 23. Using the crop frame set the desired scan image size.
- 34. Select the desired scan mode.
- 4. Select the desired resolution.
- 6. Click on the Scan button.

These steps are explained in detail in the following sections.

Select the Scan Size

From the list of available paper sizes, select the size of the document you wish to scan. Custom will automatically be selected when you use the Crop Frame to change the image area to be scanned.



Prescan the Image

A Prescan is a quick low-resolution scan of the entire original image. From this low-resolution scan you can get a clearer idea of the image area you want to include when you click **Scan**. To prescan, the steps are:

-((|))-

- 1. Place the document face down on the scan window glass.
- 2. Click on the Prescan button. After the scanner has scanned the document, the scanned image will appear in the Preview Window. From the Prescan image, you can now set the exact image area you wish to include in your final scan.

Set the Image Size

Use the Crop Frame in the Preview Window to outline the image area you wish to scan. Click one of the sides or corners of the Crop Frame and drag it to the desired length and width. To move the entire Crop Frame, position the mouse cursor inside it and drag with the (left) mouse button. Only the area inside the Crop Frame will be included in the resulting scanned image when you click on the Scan button.



Using the Zoom Tools

The Zoom In tool doubles the magnification of the image area. In magnified view, you can then drag the Crop Frame to the exact area you want to scan. Use the Zoom Out tool to shrink the image.



Set the Scan Mode

The Scan Mode determines how the scanner will read the image. Select Color to capture images in color. Select Gray to capture images in shades of gray. When you wish to scan line art or text for OCR (Optical Character Recognition), select LineArt.

Set the Resolution

The Resolution, which is measured in dots per inch (dpi) determines the effect of the image as it is displayed or printed. Images scanned at a high resolution appear sharp since the scanner is capturing more information but take note that high resolution images also take up more disk space for storage.



Execute the Scan

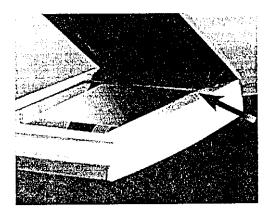
The scan button is used once you have completed the prescan and are finished with the control settings and have selected the final image adjustments that are to be used for this scan.

Note: To further adjust your image before scanning see Chapter 3 (The TWAIN Dialog Box) for enhancement and filter details.

Position a Document

For the best possible image scans, it is important that you position your documents correctly and carefully.

- 1. Lift the document cover.
- 2. Place the document face down on the scanner glass and in the upper right corner where the alignment marks are located:



- 3. Slowly lower the document cover, making sure the document remains in position.
- 4. In your scanning program, set up the scanning parameters such as scan mode and resolution.
- 5. Execute the scan command.
- 6. Remove the document after scanning is complete.

Scanning Tips

The following tables provide helpful information you can use when setting the scan mode and/or resolution. Recommended scanning resolutions for various output devices are listed as follows:

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		<i>*</i>			
PrinterType	Input Material	Suggested Scan Mode	Resolution		
600-dpi Laser or Inkjet Printer	Color Grayscale Line Art	Grayscale Grayscale Line Art	150 dpi 150 dpi 600 dpi		
300-dpi Laser or Inkjet Printer	Color Grayscale Line Art	Grayscale Grayscale Line Art	150 dpi 150 dpi 300 dpi		
Color Inkjet Printer	Color Grayscale Line Art	Color Grayscale Line Art	Check with manufacturer for recommended resolution		
Dye Sublimation or Color Laser Printer	Color Grayscale Line Art	Color Grayscale Line Art	Scan at maxi- num resolution of printer in all modes		

Space requirements for different scan modes:

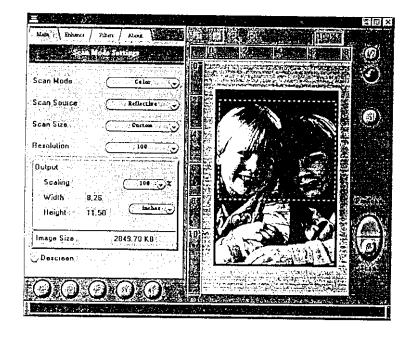
4" x 6" Image Scan	100 dpi	150 dp1	300 dpi	600 dpi
Grøy	234 Kb	527 Kb	2.06 Mb	8.24 Mb
Calor	703 Kb	1.54 Mb	6.18 Mb	24.7 Mb

Legal Size Document Scan	200 dp1	300 dp1	400 dpl
Line Ant/Text	570 Kb	1.25 Mb	2.22 Mb

The TWAIN Dialog Box

The TWAIN dialog box is part of the scanning module provided with your scanner. TWAIN is an industry standard that allows scanning directly into any TWAIN-compliant software. It eliminates most compatibility problems associated with software and input devices supplied by different vendors.

You can call up the TWIAN dialog box from within any TWAIN-compliant software such as the application software bundled with the scanner (e.g. Micrografx Picture Publisher). If you are not continuing from the Scanning Tutorial please refer to Chapter 2 (Pg. 2-4) "How to Get (Acquire) the Twain Dialog Box" before Proceeding.

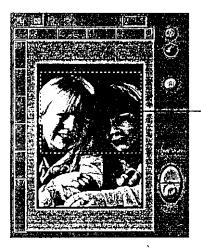


The TWAIN dialog box consists of two sections - the left section where most of the TWAIN control settings are found and the right section, which is the Preview window.

To Prescan an image, please refer to Chapter 2 (pg.2-6) "Performing a Simple Scan".

The Preview Window and Buttons

The Preview window is where you can view the prescan image. The first time you want to scan a document, it is better that you do a prescan. With the prescan image, you can then specify the final image area to be included in the actual scan and/or apply the TWAIN image-enhancement commands and filters.



Crop Frame

Outlines the scan area or region that will be included in the final scan.



Help

Provides on-line help for the scanner and software functions.



· Language Icon

Selects the language you would like to view the screen in.



• Exit Icon

Exits the program.



Prescan the Image

A Prescan is a quick low-resolution scan of the entire original image. From this low-resolution scan you can get a clearer idea of the image area you want to include when you click Scan. To prescan, the steps are:

- 1. Place the document face down on the scan window glass.
- 2. Click on the Prescan button. After the scanner has scanned the document, the scanned image will appear in the Preview Window. From the Prescan image, you can now set the exact image area you wish to include in your final scan.

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· Scan

When you click on the Scan button, the Scanner dialog box displays the progress of your image transfer. When scanning is over, the image will be displayed in the main screen of the host software behind the Scanner dialog box. This provides the option of doing additional scans without re-acquiring the Scanner dialog box each time.



· Single Scan Button

When this button is selected, you can only have one Crop Frame (or rectangle) in the Preview window. With the Crop Frame you can outline the image area you wish to scan. Click one of the sides or corners of the Crop Frame and drag it out or in to the desired length and width. To move the entire Crop Frame, position the mouse cursor inside it and drag with the left mouse button.



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Batch Scan Button

Clicking on this button allows you to have multiple scans on any part of your document using different control settings. A dialog box opens. Please refer to the section, *Using Batch Scan* found in this chapter (Pg.3-10) for more details.



· Using the Zoom Tools

The Zoom In tool doubles the magnification of the image area. In magnified view, you can then drag the Crop Frame to the exact area you want to scan. Use the Zoom Out tool to shrink the image.

The Image Setting Buttons

The Image Setting Buttons allow you to create scan settings for your own convenience. Saving image settings allows you to use the same settings again and again without the hassle of resetting all the image options.



Load Button

Loads previously saved settings.



Save Button

Saves current image settings to a file.

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Previous Button

Reloads the last saved image setting.



Reset Button

Returns the image settings to their default values.



Information Button

Simultaneously shows the current control settings from all the TWAIN folders.

TWAIN Control Settings

The Main Folder

The Main folder contains the control settings needed for specifying the scanning parameters such as scan mode, scan source, resolution, etc. These parameters will determine how the original image or document will be scanned, displayed or printed.



Scan Mode

The Scan Mode determines how the scanner reads the original image or document. When choosing a scan mode, it is wise to consider what purpose the resulting scanned image will be used for.



Color

Select Color to capture images in colors. Our Color mode generates 36-bit (68.7 billion colors) internal images and 24-bit (16.7 million colors) external images.

Gray

Select Gray to capture images in shades of gray. Our Gray mode generates 12-bit (4096 shades of gray) internal images and 8-bit (256 shades of gray) external images.

· LineArt

Use this mode to scan text documents for use in OCR (Optical Character Recognition) or when you wish to scan black-and-white drawings.

Note: Internal images refer to images that are originally captured by the scanner. External images refer to images that are transferred to the computer.



Scan Source

The Scan Source setting is used to select the type of document you will be scanning.

· Reflective

Use Reflective when you wish to scan a paper-based document such as photographs or text.

Select the Scan Size

From the list of available paper sizes, select the size of the document you wish to scan. Custom will automatically be selected when you use the Crop Frame to change the image area to be scanned.

Resolution

The Resolution, which is measured in dots per inch (dpi) determines the effect of the image as it is displayed or printed. Images scanned at a higher resolution appear sharp since the scanner is capturing more information but also take up more disk space for storage. You can select from a wide range of preset resolutions.



Output Scaling

Output scaling allows you to enlarge the size of the final output image. For example, setting the Output Scaling to 200% will enlarge the output image four times its original size.



Width and Height

The Width and Height values show the dimensions of the image area inside the Crop Frame in the Preview window. You can change the measurement unit to centimeters, inches or pixels.

Image Size

Image Size displays the amount of computer memory or disk space needed to display or save the image outlined by the Crop Frame in the Preview window. The Image Size information is automatically updated anytime you change any of the control settings or resize the Crop Frame.

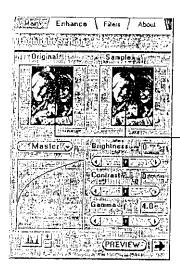


Descreen

Descreen is a useful tool for reducing moiré patterns in scanned images of originals that were created by a halftone process. Moiré patterns appear as unsightly interference patterns.

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The Enhancement folder contains preprocessing controls you can apply to the image before making your final scan. Using these preprocessing controls, you can alter the appearance of the final output image. To view the Enhancement folder, click the Enhance tab.



Thumbnails

The Enhancement folder contains two thumbnails of the prescan image, several control settings, and a histogram of the image. Changes you make to the control settings will appear in the sample thumbnail. If you wish to change the image that appears in the thumbnails, drag the Crop Frame in the Preview window.

If you wish to see the effects of your changes in the Preview window image, click on the Preview button.



Channel Selector

Channel refers to the red, green, and blue layers that make up a color image. You can choose to change the channels individually or choose Master to change all channels equally and simultaneously. An image in Gray Mode has one channel.



Brightness Control

The Brightness control allows you to adjust the overall amount of light in the image.



Contrast Control

The Contrast control allows you to adjust the overall amount of white and black in the image.



· Gamma Control

The Gamma control is used for adjusting the brightness level in the highlights, midtones, and shadows of the image. Values of 0.1 to 2.0 primarily affect the shadow areas of the image. Values of 2.1 to 6.0 primarily affect the midtone areas, and values of 6.1 to 7.9 primarily affect the highlight areas.



Histogram Button

The histogram shows the distribution of the brightness levels in the image. To adjust the display of the histogram, click on the Histogram button and then click on the + or - button.



Preview Button

Click the Preview button to see any changes made to the image. The changes will appear in the Preview window image.

The Filters Folder

The Filters folder contains preprocessing controls that allow you to apply special effects to the image before making your final scan. To view the Filters folder, click the Filters tab.



The Filters folder contains two thumbnails of a sample image. Any filter you choose will immediately show its effect in the sample thumbnail.

3

Blur

The Blur filter (controlled with the plus and minus buttons) smoothes the image by lightening the pixels that are in sharp contrast to their neighboring pixels.

Sharpen

The Sharpen filter (controlled with the plus and minus buttons) enhances the detail in blurry images by improving the focus and increasing the contrast in the image.

· Invert

The Invert filter reverses an image to its negative or compliment.

Flip

The Flip filter creates a mirror image of the original by flipping the image horizontally.

Emboss

The Emboss filter makes the elements in an image appear raised or sunken.

Unsharp Mask

The Unsharp Mask filter detects sharp edges and color boundaries and then emphasizes them.

About Folder

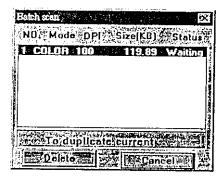
The About folder contains the current driver version number and the copyright notice. To view the About folder, click the About tab.

Using Batch Scan

Batch scanning is an easy way to multi-scan any part of your document using different scan modes and resolutions (however, certain application programs do not support this function). In batch scanning, you can specify up to a maximum of 10 scan regions or you can scan a single region several times using different combinations of scan modes and resolutions.

To do a batch scan, the steps are:

1. Click on the Batch Scan button. The Batch Scan dialog box appears.



- 2. Create a scan region:
 - (a) Move the cursor inside the preview window.
 - (b) Hold down the Shift key, press the left mouse button and drag the mouse to create a crop frame.
 - (c) Reposition or resize the crop frame if necessary.
- 3. Set the desired scan mode and resolution for the current scan region.
- 4. Repeat steps 2 and 3 if you wish to create more scan regions. You can have up to 10 scan regions.
- Click Scan. The scanner will begin to scan the scan regions one after the other.

Appendix A: Specifications*

Scanner Type

Flatbed

Scan Modes

True Color:

36bits (internal), 68.7 billion colors

24bits (external), 16.7 million colors

Gray Mode:

12bits (internal), 4096 shades of gray

8 bits (external), 256 shades of gray

Text/Line Art:

1 bit/pixel(2 levels)

Scan Method

1 scanning pass

Scan Area

216x356mm

(maximum)

8.5"x14"

Resolution

Optical: 600 dpi(H) x 1200 dpi(V)

Maximum: 9600 dpi x 9600 dpi (through software interpolation)

Resolution Control

72 - 9600 dots per inch (dpi) (controlled by software)

Scanning Data Buffer

128KB(maximum)

Gamma Correction

Downloadable by software

Brightness Control

255 adjustable steps (software controlled)

Contrast Control

255 adjustable steps (software controlled)

Interface

EPP

Light Source

Cold Cathode lamp

Dimensions

556 mm x 306 mm x 102 mm (L x W x H)(18.5 x 11.7 x 3.9 inches)

Weight

3.8 kg (8.36 lbs)

Voltage Requirements 100 Vac ~ 250 Vac, 47 ~ 63 Hz

Power Consumption

Linear Adapter 1.0A, 15W

Operating Temperature 10 to 40 degrees Centigrade (50 to 104 degrees Fahrenheit)

Operating Humidity

35% to 80% RH, noncondensing

Storage Temperature

-10 to 60 degrees Centigrade (14 to 140 degrees Fahrenheit)

Storage Humidity

20% to 80% RH, noncondensing

^{*} Product specifications are subject to change without notice.

Appendix B: Technical Support

Mustck, Inc. 121 Waterworks Way, Suite #100 Hellersbergstr. 2a

Irvine, CA 92618 USA 444

TEL: 1-744-788-3600 FAX: 1-714-788-3670 24-hour BBS-714-788-3630

http://www.mustek.com

Mustek Computer GMBH 41460 Neuss

Germany TEL: 49-2131-162840 FAX: 49-2131-103830

BBS:49-2131-167104 BBS:49-2131-130052

http://www.mustek-europe.com

Mustek Systems, Inc. No. 25 R&D Road 2 Science-Based Ind'l Park Hsinchu, Taiwan, R.O.C.

TEL: 886-3-5779373 FAX: 886-3-5784139 http://www.mustck.com.tw

To bring you the best possible service, please have the following information ready when you call:

- Which scanner model do you have?
- Which computer model are you using?
- What version of scanning software do you have?
- What other application programs are you using?
- What other components are in your system? (For example, FAX card, sound card, SCSI card and so on.)
- · What are the problems/symptoms you encounter?

Product Repairs

For Product repairs please follow these steps:

- 1. Call the technical support department for a Return Material Authorization (RMA) number and refer to this number in all future calls.
- 2. Consult your dealer regarding proper repair procedure.
- 3. For repairs being shipped to the manufacturer, please write the RMA number clearly on the outside of the package and send it postage paid, prepared and packaged appropriately for safe shipment.

Product Returns

· Users must return the products to their point of purchase for a refund or credit, according to the dealer's policy.