

Trust Imagery Series

User's Manual

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Introduction

This manual is a guide to the installation and use of the Trust Imagery Series.

Chapter 1 gives some general information about the Trust Imagery Series.

Chapter 2 explains how to set up the Trust Imagery Series.

Chapter 3 explains how to launch the Scan Driver Image Source and how to use the Image Source.

Appendix A lists some common problems that you may encounter when running the diagnostic program and gives solutions.

Safety precautions

When setting up your scanner, pay special attention to the following safety/standard regulations.

1. Read this manual and all warnings and instructions marked on the product carefully.
2. Please check the power source requirements indicated on the marking label on the cabinet.
3. Unplug this device before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
4. Do not place this device on an unstable cart, stand or table. It may fall causing serious injury to a child or adult and serious damage to the appliance.
5. To prevent fire or shock hazards, do not expose this device to rain or moisture or use it near water. Never spill liquid of any kind on the device.
6. This device is equipped with a 3-wire grounding type plug with a third (grounding) pin. The plug will fit only into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.
7. Nothing should rest on the power cord. Do not locate this product where persons will walk on the cord.
8. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
9. Never push objects of any kind into the device through cabinet slots as they may contact dangerous voltage points or short out parts that could lead to fire or electric shock.
10. All servicing should be referred to qualified service personnel.

Chapter 1 - General information

1.1 Contents of Scanner Package

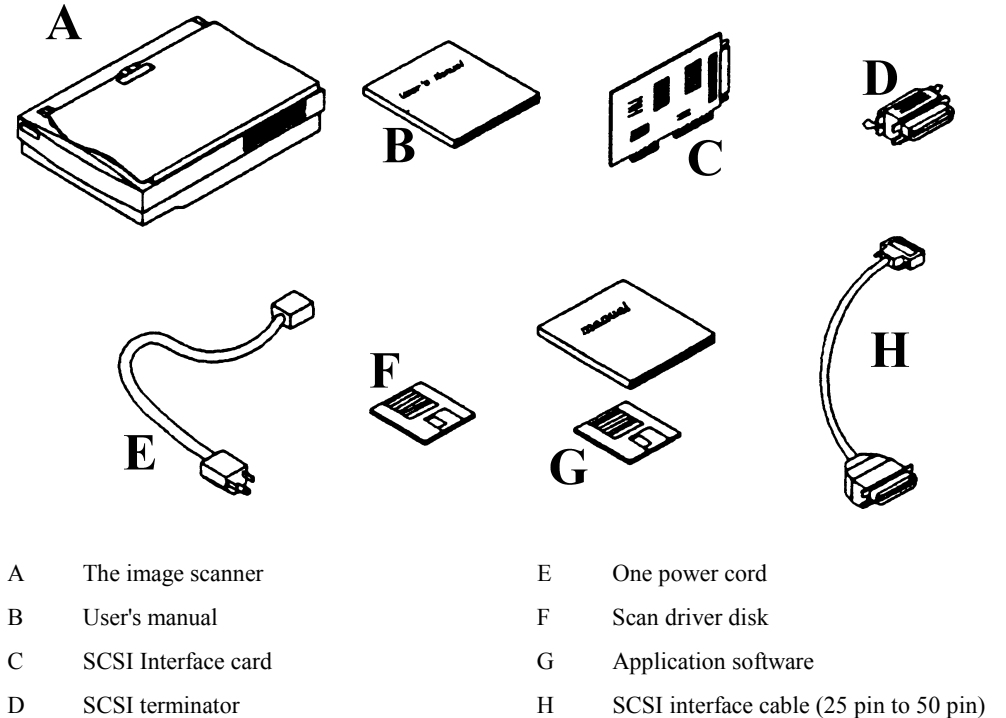


Figure 1 Contents of Scanner Package

Note

If you do not find all of the listed items in your scanner package or/and find any obvious physical damage, notify your shipping carrier or contact your dealer immediately.

1.2 Minimum System Requirements

- Microsoft Windows 3.1 or later for PCs, System 7.0 or later for Macintosh
- 4 megabytes RAM (8 megabytes recommended)
- Hard disk with at least 8 megabytes free space is recommended

- VGA monitor with a display card of at least 256 colours
- Microsoft Windows compatible mouse for PCs, Apple compatible mouse for Macintosh
- One available expansion slot for SCSI card

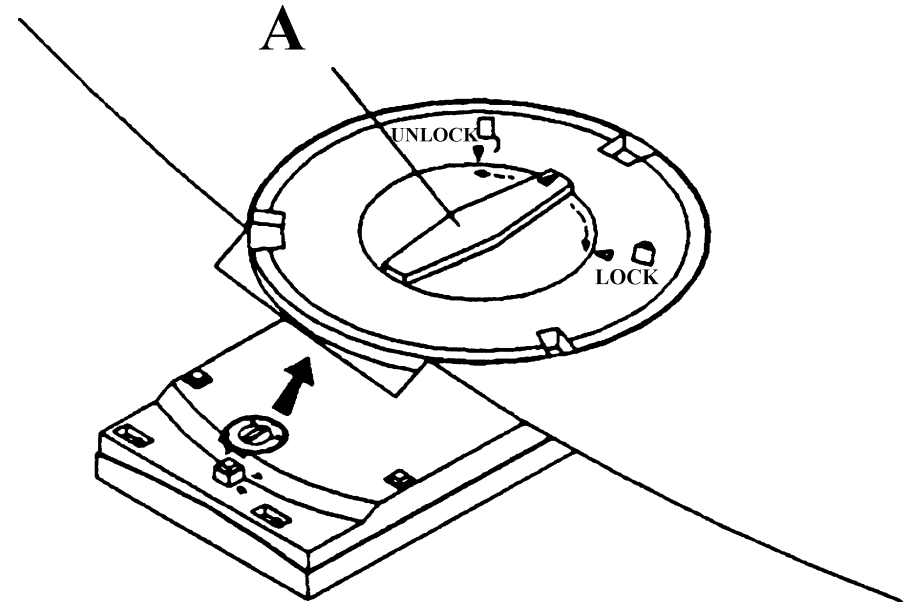
Chapter 2 - Setting up the Trust Imagery Series

2.1 Unlocking the scanner

The scanner is locked with a locking mechanism at the underside of the scanner. It locks the movable main element inside the scanner so that it will not be damaged during transport. To unlock the scanner, turn the knob from the position indicated "LOCK" to the position indicated "UNLOCK" (see Figure 2).

Note

1. Your scanner will not function if the knob is at "LOCK" position.
2. Do not transport the scanner without locking the knob.



A Knob

Figure 2 The scanner's knob position

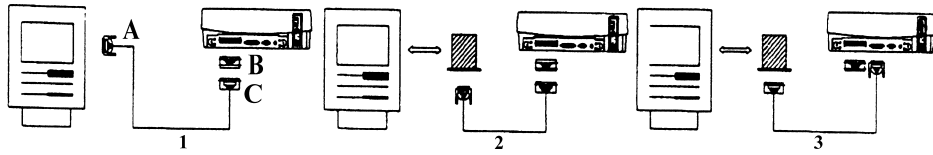
2.2 Connecting the scanner to your computer

2.2.1 Connecting the scanner to your Macintosh

The scanner can be connected to your Macintosh through the attached SCSI cable and SCSI terminator. You therefore do not need an interface card.

Note

The scanner is not equipped with an internal terminator!



A 25 pin
 B terminator
 C 50 pin
 Figure 3

The three possible configurations:

- 1: The scanner is connected to the Macintosh without other SCSI peripherals.
- 2: The scanner is connected to the Macintosh through a 25-pin SCSI peripheral.
- 3: The scanner is connected to the Macintosh through a 50-pin SCSI peripheral.

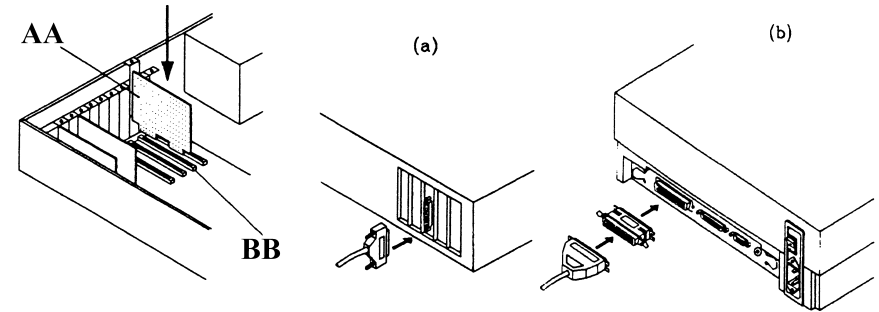
2.2.2 Connecting the scanner to your PC

To connect the scanner to your PC, you need to install your SCSI card before setting up the scanner. However, if you already have a SCSI card in your computer (e.g. the Adaptec™ 1542), you can use that card. The scanner will work with many third party ASPI compatible SCSI cards.

To install the attached SCSI card, follow the procedures below.

1. Installing the interface card:
 - a. Turn off the computer and remove its cover.
 - b. Insert the interface card firmly into an available slot (see Figure 4).
2. Connecting the scanner to the interface card:
 - a. Attach the small end of the interface cable to the interface card that you have installed (see Figure 5 (a)).
 - b. Attach the large end of the interface cable to the large 50-pin connector on the rear of the scanner (see Figure 5 (b)).

Note
 The scanner is not equipped with an internal terminator!



AA Interface card
 BB Slot
 Figure 4 Installing the Interface Card

Figure 5 Connecting the Scanner to the Interface Card

2.3 SCSI ID Setting

The scanner has a SCSI ID switch located at the rear of the scanner (see Figure 6). Each device on an SCSI chain must have a unique SCSI ID number so that the computer can identify and access each device. Internal SCSI hard drivers are usually set to SCSI ID number 0 and the computer (or the SCSI Interface Card) uses SCSI ID number 7. The scanner is preset to SCSI ID number 4. If another device is also set to SCSI ID number 4, you will need to change the ID on one of the devices to resolve this conflict.

Follow the steps below to change the SCSI ID number:

1. Turn off the scanner and the computer.
2. Use a small flat-blade screwdriver to turn the arrow on the SCSI ID switch to select the SCSI ID numbers 1 to 6 (see Figure 7).
3. Turn on the scanner and the computer.

Note

1. The SCSI ID number is dependent upon a number of variables such as the other devices that are connected to your computer, as well as the applications you are running.
2. ID numbers 8-F are reserved.

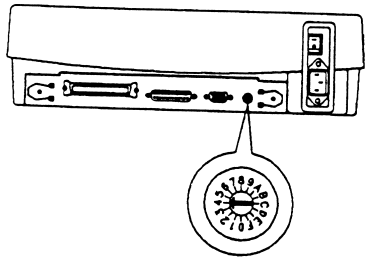
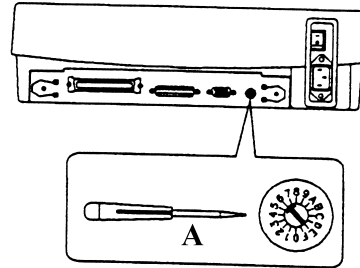


Figure 6 SCSI ID Factory Default Setting



A Flat-blade screwdriver
Figure 7 Changing the SCSI ID Number

2.4 Installing the Scan Driver

The Scan Driver is an interface that connects your scanner and many different applications which are compliant with the driver protocol. For PCs, the Scan Driver is designed to comply with the TWAIN protocol and is therefore called "TWAIN-compliant Scan Driver". For Macintosh systems, the Scan Driver follows another protocol developed by the Apple company and is then called "Apple-compliant Scan Driver". Before installing the Scan Driver, install your image application software first. Refer to its installation guide, then follow the steps below.

2.4.1 Installing the TWAIN-compliant Scan Driver for PCs (Windows)

1. Turn on the computer, start Microsoft Windows.
2. Insert the TWAIN driver disk into the floppy drive.
3. Select the Windows Program Manager, select the File menu and choose Run.
4. Type A:\WINSETUP and press Enter (if the disk is in drive B type B:\WINSETUP).
5. Follow the instructions shown in the dialogue box.
6. Reboot the computer.

2.4.2 Installing the Apple-compliant Scan Driver for Macintosh

The Plug-In Module (PIM) driver installed on the Macintosh is a standard which enables you to use a common software component with many applications.

1. Insert the Apple Driver disk into the floppy drive.
2. Double click the driver installer icon, then follow the instructions shown in the dialogue box.
3. Click on Extract and uncompress the driver software into the destination folder (see Figure 8).

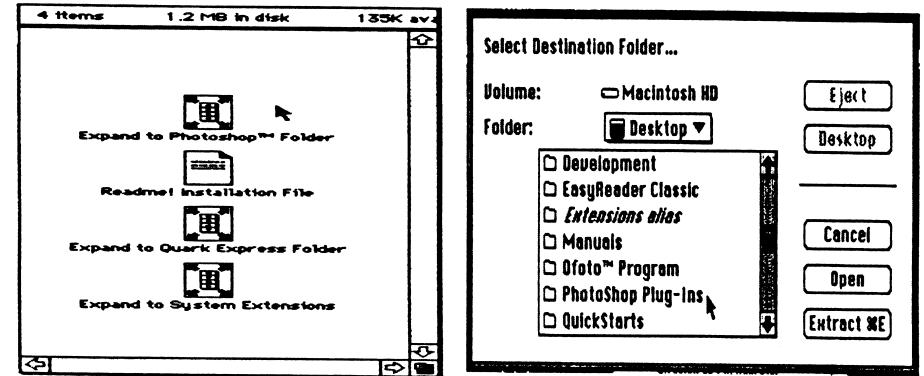


Figure 8

2.5 SCSI Diagnostic

After completing the installation, you can test to see whether the Scan Driver has been properly installed or not.

1. Select the Windows Program Manager, activate the scanner folder (see Figure 9).

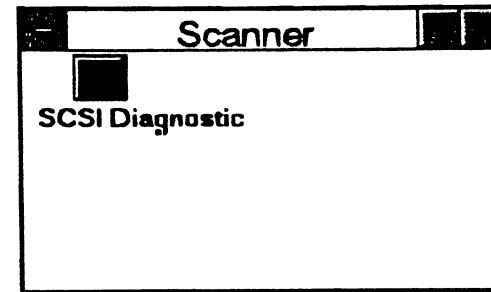


Figure 9

2. Double click the SCSI diagnostic icon. The SCSI diagnostic screen as shown in Figure 10 will appear.

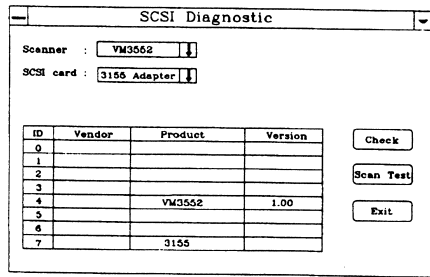


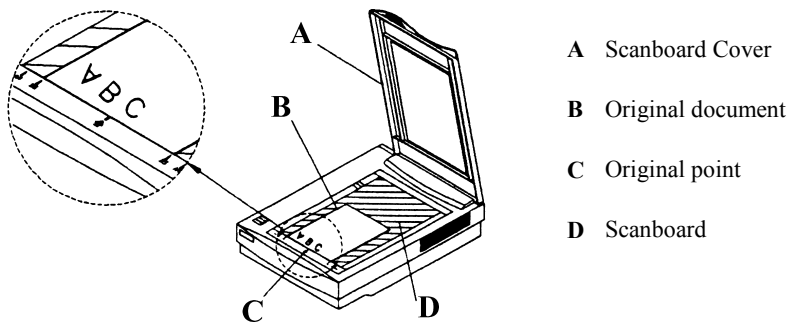
Figure 10 The SCSI Diagnostic Screen

3. First select the correct scanner model, then the type of card you are using.
4. Click Check button to see the display of the SCSI ID number status.
5. If no trouble occurs, click Scan Test button to do a preset scanning task to test the scanner.
6. If everything is OK, click Exit button to quit the SCSI diagnostic program. All settings on the diagnostic screen can be saved.
7. If any trouble occurs during the diagnostic procedure, please refer to Appendix A for troubleshooting.

2.6 Using the Scanner

To position a document for scanning:

1. Lift the scanboard cover.
2. Place the original document face down on the scanboard (see Figure 11).



- A Scanboard Cover
- B Original document
- C Original point
- D Scanboard

Figure 11 Positioning a document

3. Lower the scanboard cover.

Now you can start scanning.

Chapter 3 - Scan Driver Image Source

3.1 Launching the Scan Driver Image Source

3.1.1 Launching the Image Source for Adobe Photoshop on PCs (Windows)

1. Start Adobe Photoshop from Windows.
2. Go to the **File** menu, choose **Acquire**, then **Select Source**.
3. Click on **EDSCANDR** and click on **Select**.
4. Go to the **File** menu again, choose **Acquire**, then **TWAIN**.

3.1.2 Launching the Image Source for Adobe Photoshop on a Macintosh

1. Start Adobe Photoshop from the system software.
2. Go to the **File** menu, choose **Acquire**.

Highlight the correct driver module. The image source main window will come up (Figure 12).

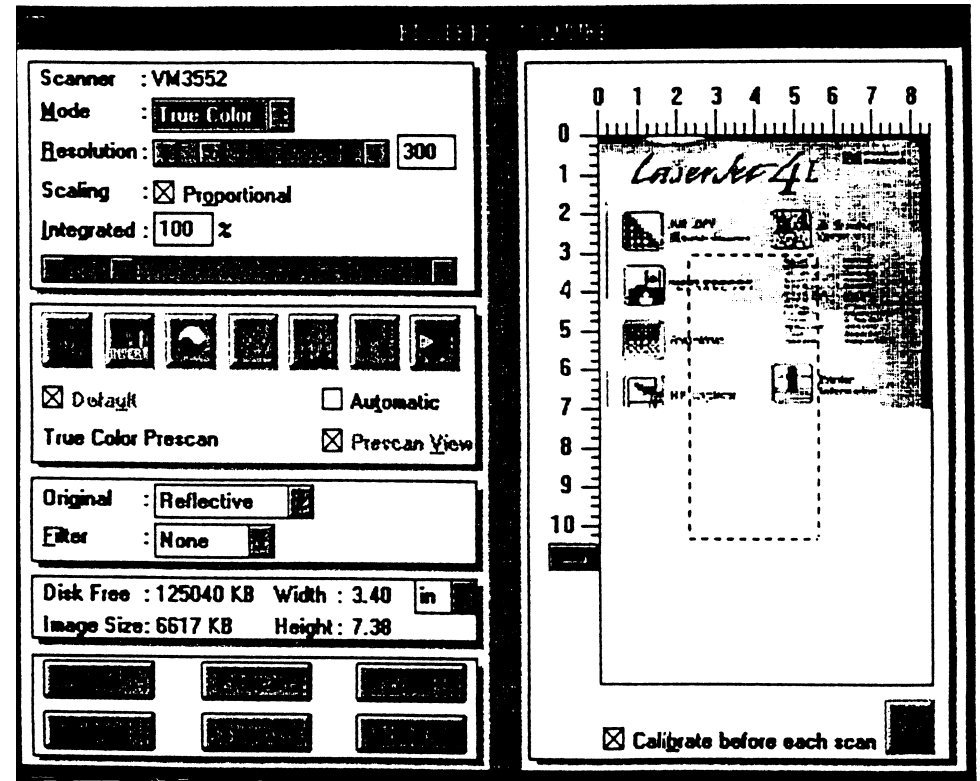


Figure 12 The Image Source Main Window

3.2 Using the Image Source

The image source allows you to control many different aspects of the image you want to scan.

You can see a dotted line in the image area; this is called the Cropping Tool (see Figure 12). You can frame the area of the image you wish to scan.



Monitor Gamma

The Monitor Gamma button in the lower right allows you to adjust the brightness of the midtones of the image while keeping the shadow and highlight areas unchanged. The available monitor gamma value ranges from 0.75 to 3.0 (see Figure 13).

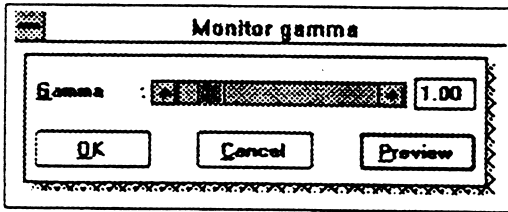
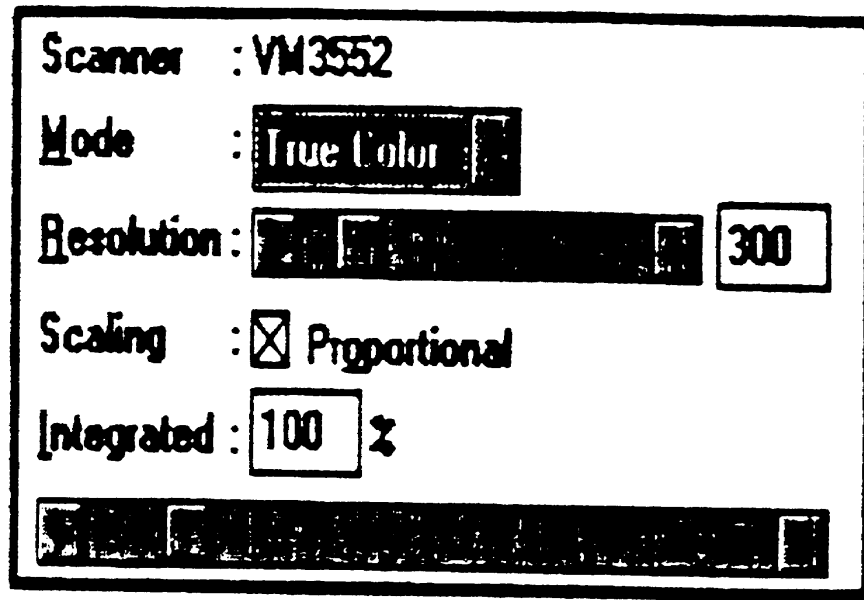


Figure 13 Monitor gamma

Calibrate before each scan Click this function to calibrate before each scan.

3.2.1 Scan Settings Section

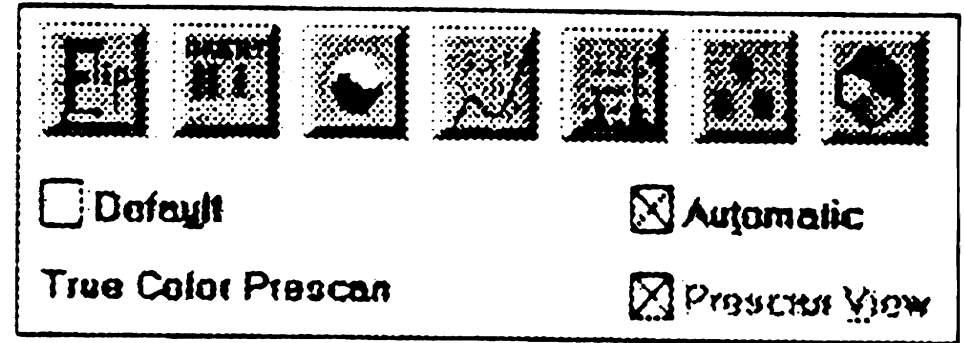


Mode Scans the image in True Color, Grayscale, or Bi-Tone.

Resolution Adjusts the scanning resolution (in DPI). You can change the vertical and horizontal resolution together or separately by adjusting the scaling.

Scaling Controls the image size. Click the Scaling function to toggle between integrated and proportional scaling.

3.2.2 Colour Enhancements Section



Flip

Creates a mirror image.



Invert

Converts all black pixels to white and vice versa.



Brightness/Contrast

When you click on this button the Brightness/Contrast dialogue box will pop up (see Figure 14).



Curves

When you click on this button the Curves dialogue box will pop up (see Figure 15). The diagonal line shows a Gamma function of input to output pixel values. The default is a straight line, which makes no adjustments to the pixels. All pixels that fall below the default line are darkened and all pixels above the default line are brightened.

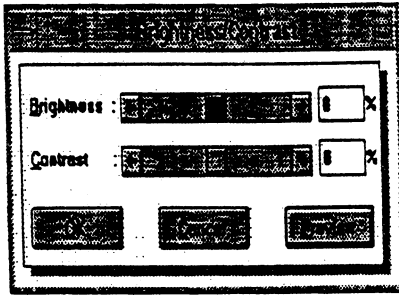


Figure 14 Brightness/Contrast dialog box

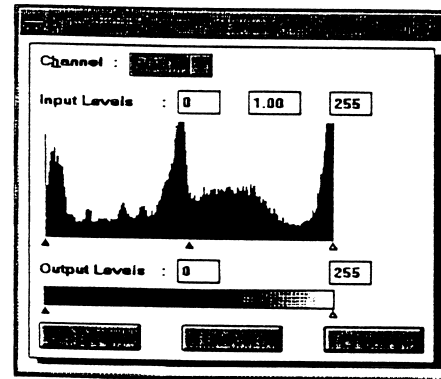


Figure 16 Levels histogram

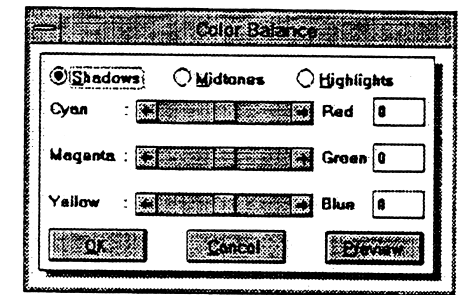


Figure 17 Color balance

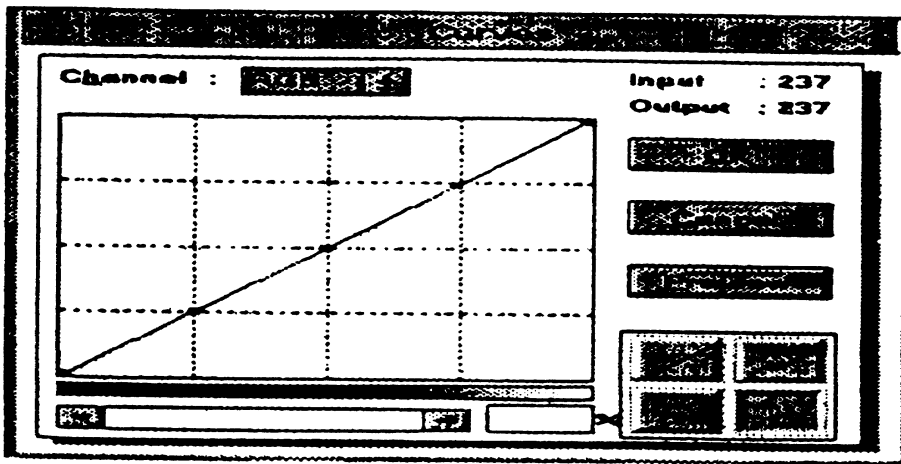


Figure 15 Curves dialog box



Hue/Saturation

Hue/Saturation allows you to alter the hue and saturation of an image. Hue distinguishes one colour from another, saturation refers to the purity of a colour (see Figure 18).

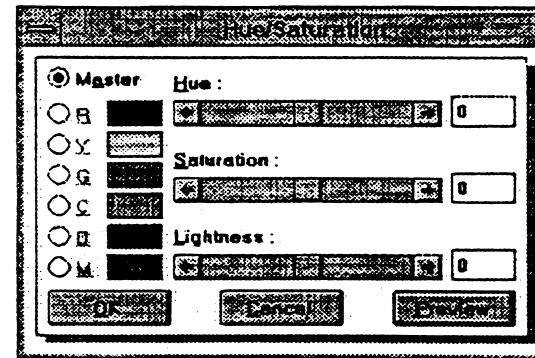


Figure 18



Levels

The levels function displays a histogram (see Figure 16) of the number of pixels in the image: the left side represents black and the right side white or a solid colour, e.g. red, green or blue.



Color balance

Color balance (see Figure 17) allows you to improve the look of your image while retaining detail, as you adjust the colour levels in the shadows, midtones and highlights.

Default

Click on default to restore the colour enhancement settings to their default values.

Automatic

Click on Automatic to stretch the image levels to fill the entire range of values.

Prescan View

Click on Prescan View to return the prescan image to its normal appearance after zooming a scan.

3.2.3 Scan Media Selection Section

prescan image.



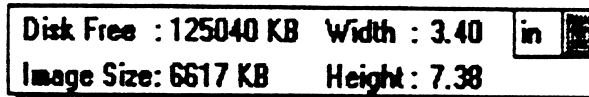
Original Clicking the arrow allows you to switch between the scanning media (Reflective, Transparency and Feeder).

Filter You can choose between None and Destreak. Destreak removes the streaks on your images.

Speed You can choose between Fast and Fine.

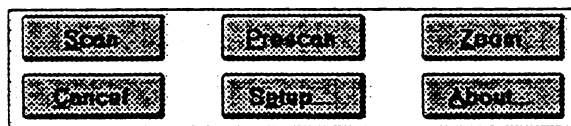
Note
The Speed function is only available on 400 dpi and 600 dpi scanner series.

3.2.4 Image Information Section



The Image Information Section displays the image size, available disk storage space and dimensions of the image.

3.2.5 Control Buttons Section



Prescan This button allows you to see the image displayed at low resolution.

Scan This button allows you to scan in images.

Zoom This button allows you to enlarge or shrink a selected area of the

Appendix A - Troubleshooting

This appendix lists some common problems that you may encounter while running the diagnostic program. It also gives possible solutions.

Most problems can be solved with a few examinations. However, if you experience any problem that you cannot correct, contact your dealer.

Problem	Troubleshooting
Unable to launch the diagnostic screen after clicking the SCSI Diagnostic icon.	Incomplete driver installation. Check your driver disk, floppy drive, then install the driver again.
System shut down. The display of the SCSI ID number status halts on ID number 4 (scanner default setting) when you launch the SCSI Diagnostic screen.	Check that there is no ID conflict on the other SCSI-chained devices with your scanner.
Nothing is shown in the SCSI ID number status box after you click the Check button.	<ul style="list-style-type: none">• You may have selected the wrong SCSI card.• SCSI card has not been recognized.• Make sure your SCSI card is installed properly.• Incomplete SCSI card driver installation. Check the CONFIG.SYS file in your system.• The address settings for your SCSI card conflict with any other card in your computer.
The ID number status box only displays the SCSI card you selected at ID number 7 and no scanner model is shown in the box.	<ul style="list-style-type: none">• Scanner has not been recognized.• Make sure your system is terminated properly with both internal and external devices.• Check your SCSI cable, terminator and every connector for bad connection and if necessary fasten the connections again.
The scanner model is shown in the status box, but still an error message appears.	Reselect correct scanner model.
Any error message occurs during Scan Test.	Check the error message and relink all connections. Reboot your system and test again.