



# User Manual

For MAC

# **A3 Scanner**

with

The TWAIN Driver (For Macintosh)

**English**

**User Manual**

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# Setting Up the Scanner

This chapter covers the scanner installation and has the following topics:

- System Requirements
- Unpacking the scanner
- Package contents
- The scanner parts
- Unlocking and locking the scanner
- Installing the scanner
- Installing TWAIN

# System Requirements

The scanner and the bundled software comply with the TWAIN protocol for the Macintosh platform. For the scanner and scanner software to perform suitably to task, you should at least have:

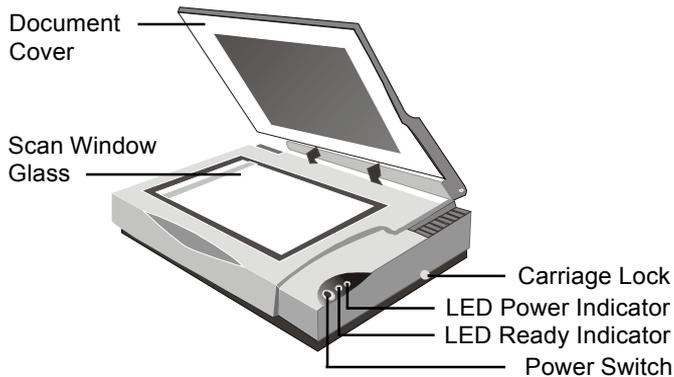
- MAC OS X 10.4 to 10.6
- Available USB port
- 24-bit video card or higher
- CD-ROM or DVD-ROM driver
- At least 64 MB RAM
- 32 MB available hard disk space for software installation

# Unpacking the Scanner

Carefully unpack the contents of the scanner package.

Inspect the items closely and if you find any item damaged or missing, please contact your Service Center. Also, save the box and packing material for in case you have to ship the scanner later.

## The Scanner Parts



- **Document Cover**

The document cover holds the document in place during scanning. It can be raised when scanning objects such as books.

- **Scan Window Glass**

The scan window glass is where you lay down and position documents for scanning. Alignment marks and rulers are printed on the borders to help you position documents.

- **Carriage Lock**

The carriage lock prevents the scanner's internal mechanism from moving during shipment. Unlock the scanner before using and re-lock it when shipping the scanner.

- **LED Power Indicator**

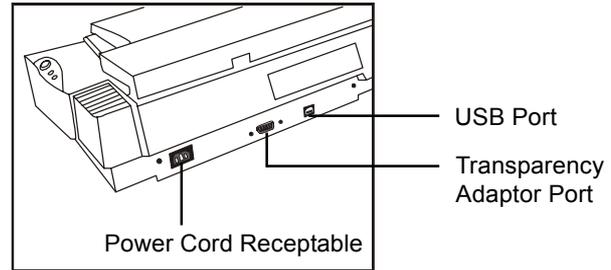
When you turn on the scanner, the LED power indicator flashes momentarily and then remains lit.

- **LED Ready Indicator**

When scanning or warming up, the LED ready indicator will keep flashing. When the scanner is available for scanning, the LED ready indicator will remain lit.

- **Power Switch**

Powers ON/OFF electrical power.



- **USB Port**

The Universal Serial Bus Port on the rear panel are true plug-and-play serial ports for attaching your scanner to your computer.

- **Transparency Adapter Port**

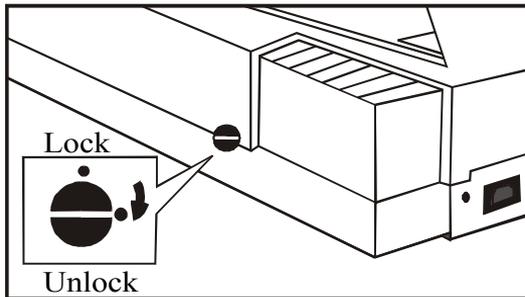
This port is for connecting an optional transparency adapter.

- **Power Cord Receptable**

Connect the scanner Power Cord to the Receptable. This is used for your scanner's power supply.

## Unlocking the Scanner

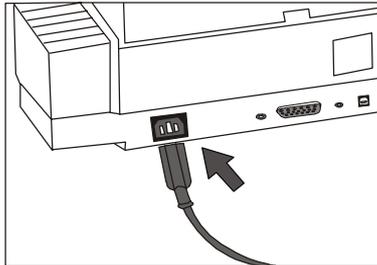
In the rear of the scanner is a carriage lock that protects the scanning mechanism during shipping. To prevent causing damage to the scanner, you should unlock the carriage before operating the unit. As shown in the illustration, push the carriage lock down to release the carriage.



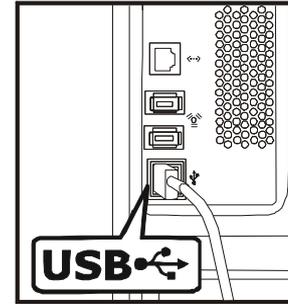
# Installing the Scanner to a Macintosh

Refer to the following illustration and steps to connect your scanner:

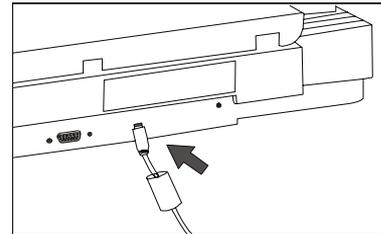
1. Connect the power adapter to the scanner and plug it into an appropriate power outlet.



2. With the power to your computer on, connect the scanner's USB cable to the USB port of your computer.



3. Connect the other end of the scanner's USB cable to the scanner's USB port.



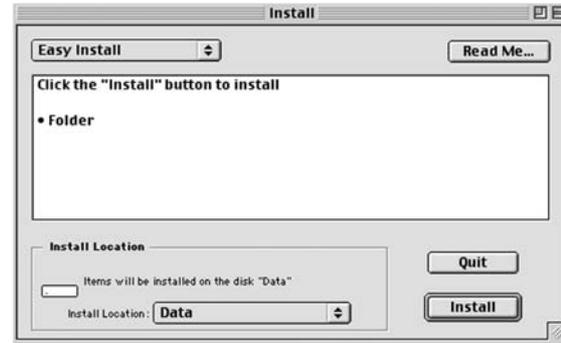
Upon connecting the USB cable, the system would automatically detect your scanner and update your system configuration.

### Installing the Scanner Driver

1. Turn on your Macintosh.
2. Insert the A3 Scanner CD into your CD-ROM drive.
3. Click on the A3 Scanner CD icon on the desktop window.
4. Click on the Install icon.



5. A dialog box appears asking you to install TWAIN by clicking the Install button. Note: you can specify the location of the installation.



6. After installation is completed, click Quit to exit installation.



# Scanning Tutorial

## Power Up the Scanner

1. First, power up the scanner by pushing the power button.



The LED power indicator on the front panel of the scanner lights up and flashes for about a minute and then remains lit, signifying that the scanner is ready.

2. Power up the computer and wait until the computer finishes booting.

## Position the Document

For the best possible image scans, it is important that you position your documents correctly and carefully. For this tutorial, use a paper-based document such as a color photograph. Procedures for document positioning are as follows:



1. Lift the scanner document cover.
2. Place the document face down on the glass and in the upper center corner.
3. Slowly lower the scanner document cover, making sure the document remains in position.

## Acquire the TWAIN Driver

The TWAIN driver is the scanning module provided with your scanner. It is easily accessed from within the bundled scanner software or from within any TWAIN-compliant program. Before you start with the steps below, be sure you have installed and configured the bundled scanner software. Refer to *Chapter 1* for details.

1. Turn on your Macintosh computer.
2. Run the host TWAIN-compliant software (e.g. Photoshop)
3. Call up the TWAIN Data Source by selecting **Acquire** from the **File** menu. (In some programs, the **Acquire** command will appear in a submenu under the **Import** command.) The TWAIN dialog box will appear in a submenu under the **Import** command.



The TWAIN dialog box contains control settings, which you must set prior to scanning a document. The basic steps to scan a document are:

1. Prescan the document.
2. Set the desired image area to be scanned.
3. Select the scan source.
4. Select the desired scan mode.
5. Select the desired resolution.
6. Click on the **Scan** button.

## The TWAIN Dialog Box

The TWAIN dialog box is divided into two sections: the left section where most of the control settings are located, and the right section, which is the Preview Window.

### Folders

Contains different control settings.



**Preview Window**  
Used for viewing the prescan image and selecting the final scan area

## The Main Folder

The main folder contains the control settings needed for specifying the scanning parameters such as scan mode, resolution, etc.

### Scan Mode

Sets the scanner to read color, grayscale, linear, etc.

### Scan Source

Sets the media type of the document to be scanned,

### Output Scaling

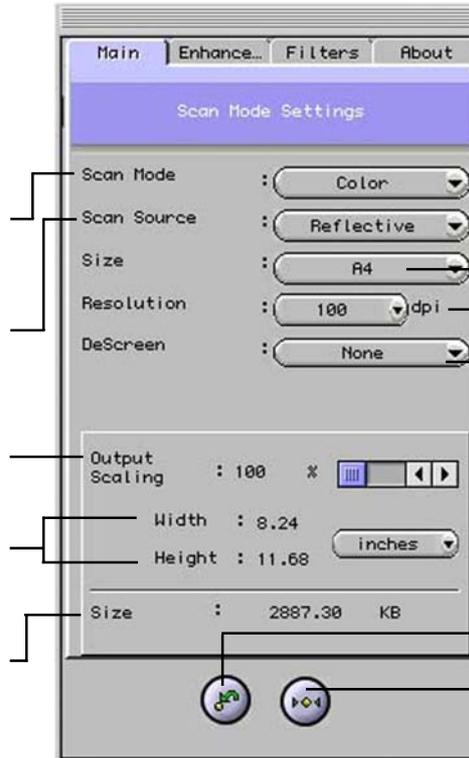
Changes the dimensions of the final output

### Width and Length

Show the dimensions of the image area inside the Crop Frame.

### Image Size

Displays the amount of computer space needed to display or save the selected image area.



### Scan Size

Refers to the size of the image or document that you are about to scan.

### Resolution

Sets the resolution in dots per inch (dpi).

### Descreen

Sets the media type of the document to be scanned to reduce image noise.

### Previous Button

Sets settings to previous values.

### Reset Button

Returns settings to their default values.

## The Enhancement Folder

The Enhancement folder contains preprocessing controls you can apply to the image before making your final scan.

### Thumbnails

Are used to see the effects of any changes in the control settings.

### Histogram

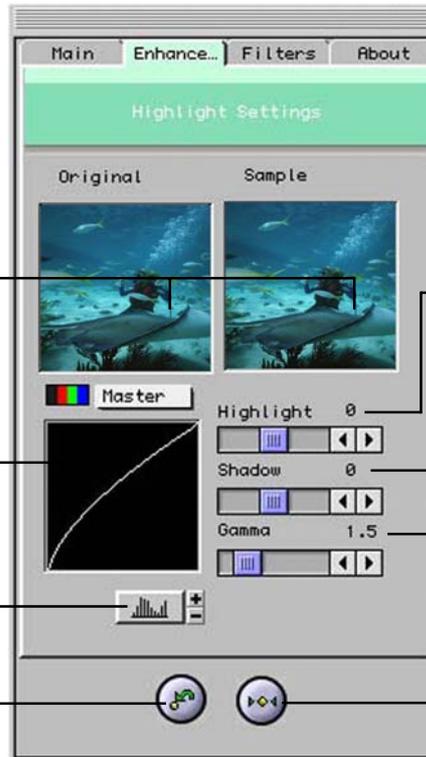
Shows the distribution of the brightness levels in the image.

### Histogram Button

Adjusts the histogram.

### Previous Button

Sets settings to previous values.



### Highlight Control

Adjusts the overall amount of brightness in the image.

### Shadow Control

Adjusts the overall amount of shadows in the image.

### Gamma Control

Adjusts the brightness level in the highlights, midtones, and shadows of the image.

### Reset Button

Returns settings to their default values.

## The Filters Folder

The Filters folder contains pre-processing controls that allow you to apply special effects to the image before making your final scan.

### None

No filter is applied.

### Blur or Blur More

Smooths or softens the image.

### Sharpen or Sharpen More

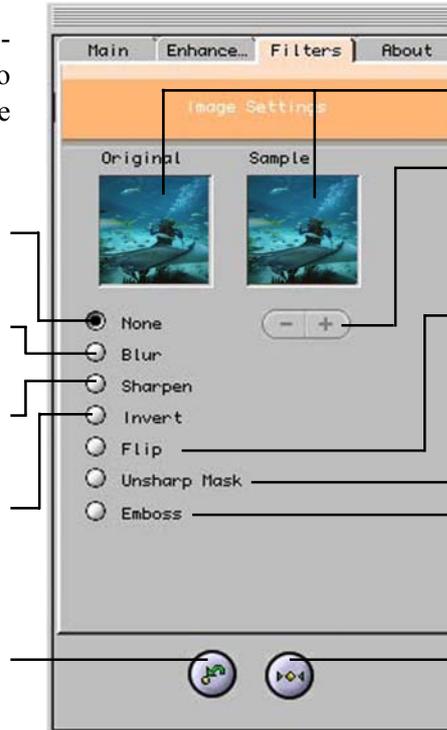
Enhances the detail in the image.

### Invert

Reverses an image to its negative or compliment.

### Previous Button

Sets settings to previous values.



### Thumbnails

Are used to see the effects of the selected filter.

### Filter Control Buttons

Use these buttons to add/subtract a degree of the Blur or Sharpen filter.

### Flip

Creates a mirror image of the original.

### Unsharp Mask

Emphasizes shape edges and color boundaries.

### Emboss

Makes the elements in the image appear raised or sunken.

### Reset Button

Returns settings to their default values.

## The Preview Window

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 precan.

### Batch Scan Button

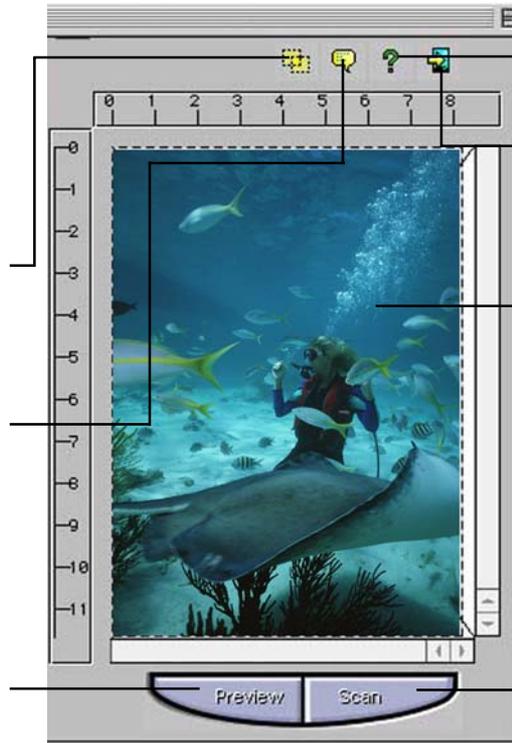
Allows creation of up to 10 scan regions for Crop Frames for multiple scanning.

### Language Setting

Allows you to select the desired language that the dialog box will be displayed in.

### Preview Button

Allows you to see the effect of any changes made to the image prior to scanning.



### Help Button

Provides On-line Help.

### Exit Button

Click to exit (or close) the TWAIN or Batch Scan Dialog boxes.

### Crop Frame

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

### Scan Button

processes the pre-scanned image, and displays it in the host software (where you opened up the TWAIN dialog box).

### Prescan the Image

A Preview 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 Preview, the steps are:



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

### Set Up the Scan Parameters

#### 1. Set the desired image area to be scanned.

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 out or in to the desired length and width.

**Crop frame** —



Only the area inside the Crop Frame will be included in the resulting scanned image when you click Scan. The size information at the bottom of the dialog box is automatically updated when the Crop Frame is resized.

#### 2. Select the scan source.

Since we are going to scan a color photograph, choose Reflective.

#### **Reflective:**

when scanning paper-based documents such as photographs or text (magazines, books, or images).

### **Negative/Positive:**

when scanning positive film or transparencies, or Negative as a source for scanning negative film.(usually works with transparency adapter)

### **3. Select the desired scan mode.**

The Scan Mode determines how the scanner will read the image.

- 24-Bit Color captures images in 16.7 million colors
- Gray captures images in grayscale
- Text/Line Art is used for text documents or black-and-white images

### **4. Select the desired resolution.**

Resolution is a measure of how much image detail information the scanner is to capture in a scan. A higher resolution results to a sharper image but requires more disk space for file saving. For this session, set the resolution to 300 dpi.

## **Execute the Scan Command**

When you are finished with the control settings, click on the Scan button. The scanner



begins to scan the document and a message box appears on the screen displaying the progress of the scan. When the scan is finished, the image will be displayed in the main screen of the host software.

## **Scanner Features**

The A3 scanner is especially designed for professional electronic publishers, graphic arts designers, multimedia developers, or anyone else who demands only the best scanning results. The A3 scanner recognizes over 68 billion colors and can capture subtle changes in color and depth rendering images that are more vibrant, clearer, and sharper.



With a true optical resolution of 1800 x 3600 dpi and a maximum resolution of 19200 x 19200 dpi (through interpolation), the A3 scanner offers a wide range of resolution to complement a variety of printers from black-and-white inkjet and laser printers to color inkjet, laser, and dye sublimation printers.

### Scan Modes

The A3 scanner incorporates multiple scan modes and high resolutions. The A3 scanner's multiple scan modes can reproduce your documents into three types of images: 24-bit color images, grayscale images, and line-art images. The choice of scan mode and image type depends on your output requirements and system configuration.

### 24-Bit Color

This scan mode captures 24 bits of color image information for every pixel in the screen image. Reproduce over 16.7 million colors. Impressive

images for multimedia presentations, printed output, or autodemos can be obtained using this scan mode. When disk space is limited, use 24-bit color scan mode to capture color images.

### Gray

This scan mode is for capturing fine details and shading in continuous-tone originals such as photographs.

### Line Art

Images scanned in Text/Line Art have absolutely no shading, only black and white. This scan mode is best used with text images for OCR and graphics with only black and white areas.

## Using Batch Scan

Batch Scanning is an easy way to multi-scan any part of your document using different scan modes and resolutions. 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 activate batch scanning, click on the **Batch Scan** button. This will bring up the Batch Scan dialog box.

### The Batch Scan Dialog Box

The Batch Scan dialog box contains several controls that make batch scanning simple and easy to use. It will also display the number of batch jobs that you make when you create the scan regions.



#### New Batch Button

Click on this button to create a new scan region on the image in the Preview Window.



#### Duplicate Batch Button

Click on this button to duplicate a batch job. You can then specify different control settings for this particular batch job.



### Trash Batch Button

Click on this button to delete the selected or highlighted batch job.



### Cancel Batch Button

Click on this button to cancel batch scan and exit the Batch Scan dialog box.

To do a batch scan, the steps are:

1. Click the **Batch Scan** button. The Batch Scan dialog box appears.
2. Create a scan region:
  - (a) Move the cursor inside the Preview Window.
  - (b) 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. If you want to duplicate the current scan region, simply click on the **Duplicate Batch** Button.
5. Click **Scan**. The scanner will begin to scan the scan regions one after the other.

For scanning multiple documents or images, Batch Scan is equipped with an auto crop function that is not available in the regular scanning mode. Batch Scan auto-detects the borders of the images or paper edges of the documents, allowing you the option of scanning any or all of these images/documents without having manually select, and scan them individually (as required in the regular mode.)

# Appendix A: Specifications\*

**A**

Scanner Type: Color CCD Flatbed

Interface: USB 2.0

Light Source: Cold Cathode lamp

Dimensions: 27.0" (L) x 17.3" (W) x 6.4" (H)

Color Mode: true 24-bit/pixel

Power  
Consumption: 26.6W

Gray Mode: true 8-bit/pixel

Weight: 15.5 kg (34.21bs)

Text/Line Art: 1-bit/pixel (2 levels)

Support OS: MAC OS X 10.4 to 10.6

**Resolution**

Optical: 1800 dpi (H) x 3600 dpi (V)

**Option****Software**

Enhanced: 19200 dpi x 19200 dpi

TA/scan area: 11.7" x 17" (297 mm x 431.8 mm)

Scan Area: 11.7" x 17" (297 mm x 431.8 mm)



## Appendix B: Maintenance

# B

Ensure that your flatbed scanner operates at optimum performance by observing the following:

- Cover the scanner when it's not in use to avoid dust contamination
- Avoid environments where the scanner would be exposed to direct sunlight (or any other source of excessive heat) for long periods of time
- Protect the scanner from potential liquid spills such as soda, coffee, tea, etc.
- Operate the scanner on a level, well-grounded work surface, free of excessive vibration
- Be careful to avoid scratching the glass when placing multi-page documents (bound by sharp staples or paper clips) on the scan window glass.

Scratches on the glass will show up as unwanted marks in scanned images.

- Don't open the scanner case because there is danger of electrical shock and there are no customer-serviceable parts inside. For servicing needs, call your scanner dealer for assistance.

## **Cleaning Procedures**

1. Power off the scanner and disconnect the power cord.
2. Gently wipe the scan window glass with a soft lint-free cloth and mild liquid detergent to remove fingerprints, smudges, or loose particles. Do not use a spray detergent as this may get inside the case and damage the unit's internal components.
3. Wipe off the detergent with a soft cloth damp with water.
4. Finally, dry the surface by wiping it with a clean soft cloth.



# Appendix C: Troubleshooting

## Determining Error Messages

When the scanner is turned on, it will automatically perform a series of self-diagnostic tests. The LED power indicator located on the scanner's front panel should tell you if there is something wrong with the unit. Upon power up, the LED ready indicator lights up and flashes for about a minute and then remains lit. The scanner lamp will also be on and will remain on until you power off the scanner.

## LED Ready Indicator Messages

1. If the LED ready indicator light continues to flash beyond one minute, call Technical Support.
2. If the LED ready indicator remains lit, but the scanner lamp is dim, call Technical Support.

## Other Troubleshooting

1. Check to make sure all cable connections are correct:
  - The USB cable is firmly plugged into the scanner and the computer.
  - The power cord is firmly connected to the scanner, plugged into an appropriate power outlet, and the power switch is turned on.



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