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Safety Instructions

Important Safety Instructions

Read all these instructions, and follow all warnings and instructions marked on the scanner.

- ❑ In this document, warnings, cautions, and notes indicate the following:

**Warnings**

must be followed carefully to avoid bodily injury.

**Cautions**

must be observed to avoid damage to your equipment.

Notes

contain important information and useful tips on the operation of this product.

- ❑ Place the scanner close enough to the computer for the interface cable to reach it easily. Do not place or store the scanner or the AC adapter outdoors, near excessive dirt or dust, water, heat sources, or in locations subject to shocks, vibrations, high temperature or humidity, direct sunlight, strong light sources, or rapid changes in temperature or humidity. Do not use with wet hands.
- ❑ Place the scanner and the AC adapter near an electrical outlet where the adapter can be easily unplugged.

**Caution:**

Be sure the AC power cord meets the relevant local safety standards.

- ❑ The AC power cord should be placed to avoid abrasions, cuts, fraying, crimping, and kinking. Do not place objects on top of the AC power cord and do not allow the AC adapter or the power cord to be stepped on or run over. Be particularly careful to keep the AC power cords straight at the end and the point where it enters the AC adapter.
- ❑ Use only the AC adapter that comes with your scanner. Using any other adapter could cause fire, electrical shock, or injury.
- ❑ The AC adapter is designed for use with the scanner with which it was included. Do not attempt to use it with other electronic devices unless specified.

- ❑ Use only the type of power source indicated on the AC adapter's label, and always supply power directly from a standard domestic electrical outlet with the AC adapter that meets the relevant local safety standards.
- ❑ When connecting this product to a computer or other device with a cable, ensure the correct orientation of the connectors. Each connector has only one correct orientation. Inserting a connector in the wrong orientation may damage both devices connected by the cable.
- ❑ Avoid using outlets on the same circuit as photocopiers or air control systems that regularly switch on and off.
- ❑ If you use an extension cord with the scanner, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- ❑ Never disassemble, modify, or attempt to repair the AC adapter, scanner, or scanner option by yourself except as specifically explained in the scanner's guides.
- ❑ Do not insert objects into any opening as they may touch dangerous voltage points or short out parts. Beware of electrical shock hazards.
- ❑ If damage occurs to the plug, replace the cord set or consult a qualified electrician. If there are fuses in the plug, make sure you replace them with fuses of the correct size and rating.
- ❑ Unplug the scanner and the AC adapter, and refer servicing to qualified service personnel under the following conditions: The AC adapter or plug is damaged; liquid has entered the scanner or the AC adapter; the scanner or the AC adapter has been dropped or the case has been damaged; the scanner or the AC adapter does not operate normally or exhibits a distinct change in performance. (Do not adjust controls that are not covered by the operating instructions.)
- ❑ Unplug the scanner and the AC adapter before cleaning. Clean with a damp cloth only. Do not use liquid or aerosol cleaners.
- ❑ If you are not going to use the scanner for a long period, be sure to unplug the AC adapter from the electrical outlet.

Restrictions on Copying

Observe the following restrictions to ensure responsible and legal use of your scanner.

Copying of the following items is prohibited by law:

- ☐ Bank bills, coins, government-issued marketable securities, government bond securities, and municipal securities
- ☐ Unused postage stamps, pre-stamped postcards, and other official postal items bearing valid postage
- ☐ Government-issued revenue stamps, and securities issued according to legal procedure

Exercise caution when copying the following items:

- ☐ Private marketable securities (stock certificates, negotiable notes, checks, etc.), monthly passes, concession tickets, etc.
- ☐ Passports, driver's licenses, warrants of fitness, road passes, food stamps, tickets, etc.

Note:

Copying these items may also be prohibited by law.

Responsible use of copyrighted materials

Scanners can be misused by improperly copying copyrighted materials. Unless acting on the advice of a knowledgeable attorney, be responsible and respectful by obtaining the permission of the copyright holder before copying published material.

Chapter 1

Overview of Your Scanner Features

Color Restoration



Using the **Color Restoration** feature in Epson Scan, you can transform an old, faded, or badly exposed photo into one with true-to-life color and sharpness.

Original image	Color Restoration applied
	

For instructions on using this feature, see “Restoring Color” on page 76.

Dust Removal

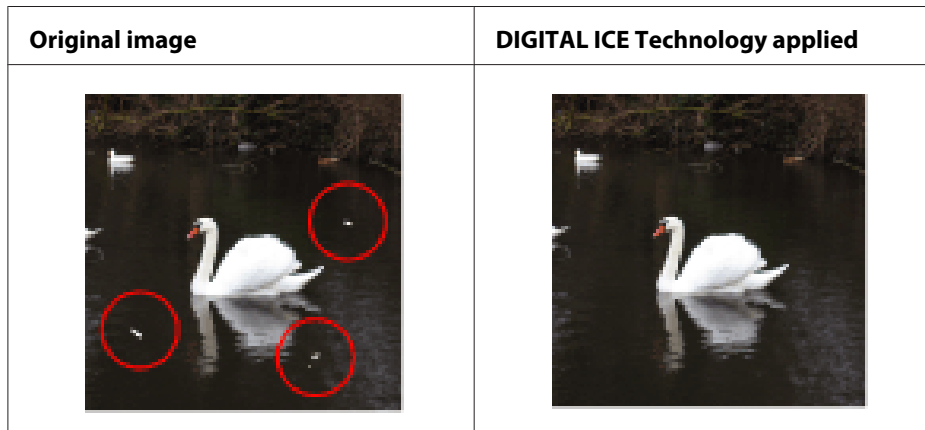
Using the **Dust Removal** feature in Epson Scan, you can virtually “clean” the dust marks from your originals as you scan them.

Original image	Dust Removal applied
	

For instructions on using this feature, see “Removing Dust Marks with the Dust Removal Feature” on page 83.

DIGITAL ICE Technology

Your scanner and its Epson Scan software are equipped with the **DIGITAL ICE Technology** feature that removes dust or scratch marks from your originals.

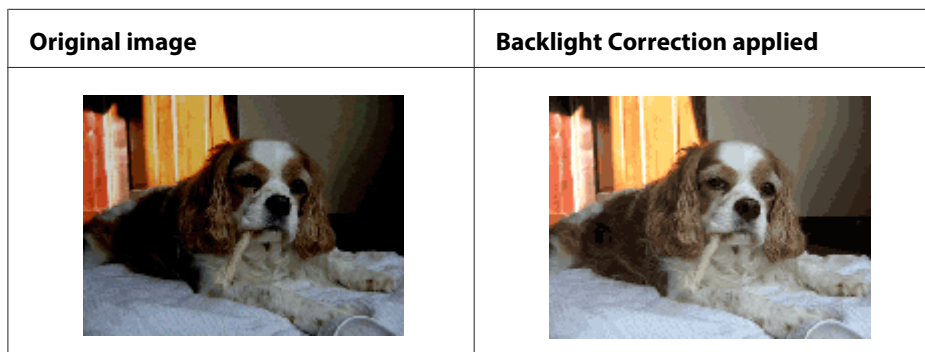


DIGITAL ICE Technology can remove dust marks that the Dust Removal feature cannot. However, it takes longer to scan using DIGITAL ICE Technology and also uses more of your system resources. It is best to try removing dust marks using Dust Removal before using DIGITAL ICE Technology.

For instructions on using this feature, see “Removing Dust and Scratch Marks from Originals Using DIGITAL ICE Technology” on page 87 for instructions.

Backlight Correction




Using the **Backlight Correction** feature in your scanning software, you can remove shadows from photos that have too much background light.



For instructions on using this feature, see “Fixing Backlit Photos” on page 93.

Text Enhancement

When you scan documents, you can sharpen the text and increase accuracy by using the **Text Enhancement** feature in Epson Scan.

Original	Text Enhancement: Off	Text Enhancement: On
		

For instructions on using this feature, see “Text Enhancement” on page 96.

Easy Photo Scan

This software allows you to perform various tasks immediately after scanning images such as editing the images, saving them to your computer, sending them by e-mail, or transferring them to cloud services.

For more details on using Easy Photo Scan, see the Easy Photo Scan Help.

Starting the software

Windows:

Double-click the **Easy Photo Scan** icon on the desktop.

Or select the start button icon or click **Start > All Programs** or **Programs > EPSON Software > Easy Photo Scan**.

Mac OS X:

Select **Applications > EPSON Software > Easy Photo Scan**.

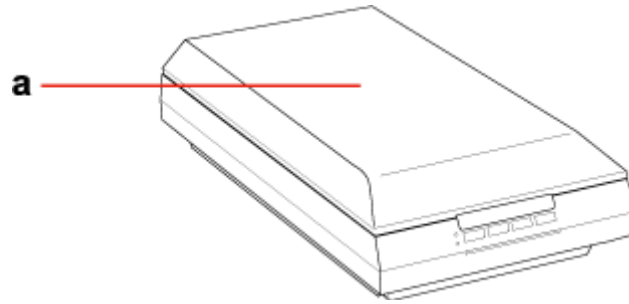
Accessing the Help

Select **Help** from the menu at the top of the main window, and then click **Easy Photo Scan Help**.

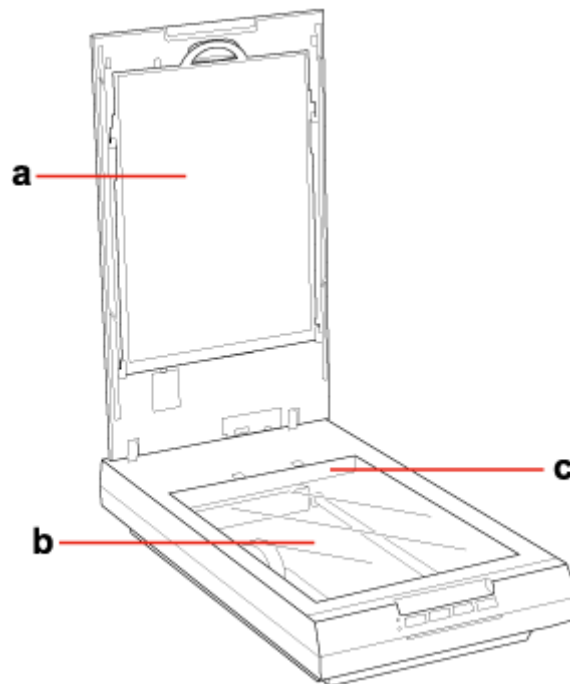
Chapter 2

Guide to the Scanner Parts

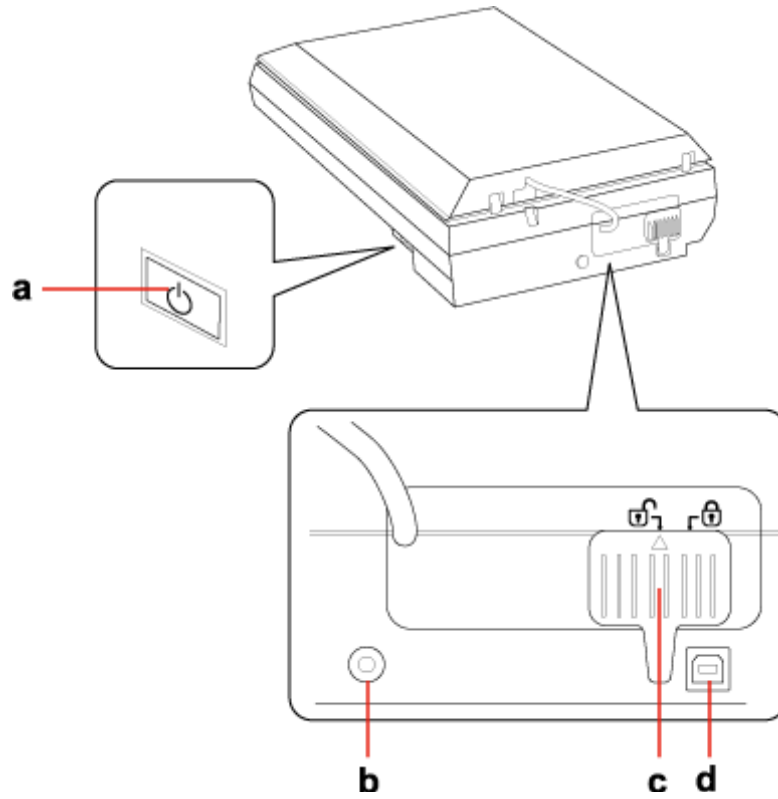
Scanner Parts



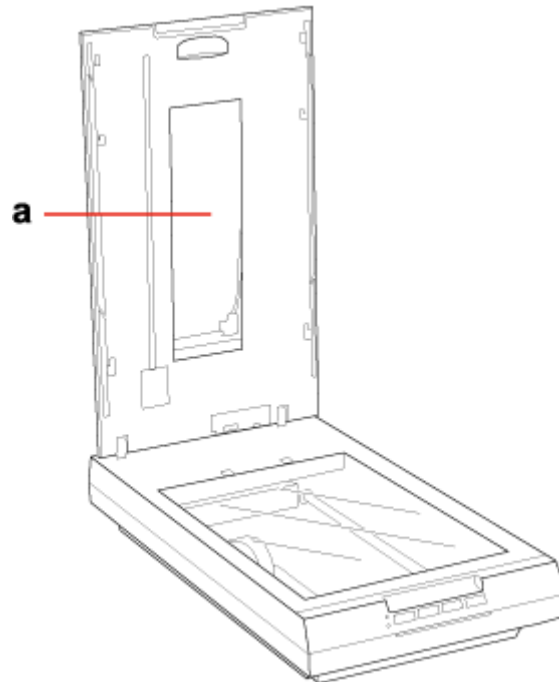
a. scanner cover



- a. document mat
- b. document table
- c. carriage (in the document table)



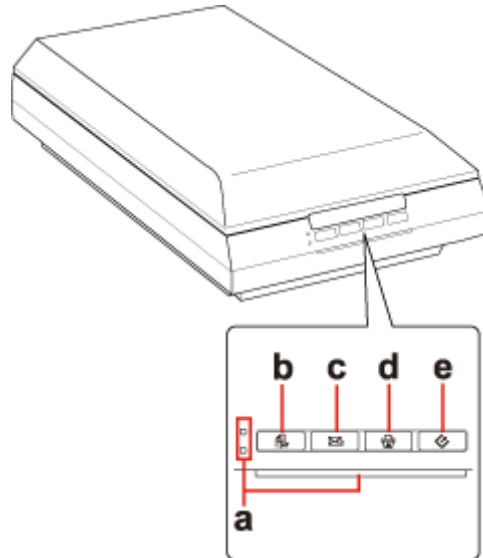
- a. Power switch
- b. DC inlet
- c. transportation lock
- d. USB interface connector



- a. transparency unit window

Light and Buttons

The scanner has four buttons for scanning operations. The Status lights indicate whether the scanner is operating normally.





- a. Status lights
- b. PDF button
- c. E-mail button
- d. Copy button
- e. Start button

Light





The green and orange status lights are on the left of the PDF button and the blue status light is on the bottom of the four buttons.

Color	Indicator Status	Meaning
Green	On	Power is on.
	Flashing	Entering power saving mode.
Orange	Flashing	An error has occurred. See "The Status Light Is Flashing" on page 135 for more information.

Blue	 Flashing	Initializing or scanning.
(None)	 Off	The scanner is off.

Buttons

Before using the scanner buttons, make sure you have installed Epson Scan and Epson Event Manager.

Button	Function
 Start	Epson Scan starts.
 Copy	Copy Utility starts.
 E-mail	Epson Scan automatically scans, then the Send File Via E-mail window appears.
 PDF	The Scan to PDF window appears.

See “Using the Scanner Buttons” on page 34.

Note for Mac OS X 10.5.8 users:

Copy Utility is not supported for Mac OS X 10.5.8.

Chapter 3

Placing Originals on the Scanner

Placing Documents or Photos

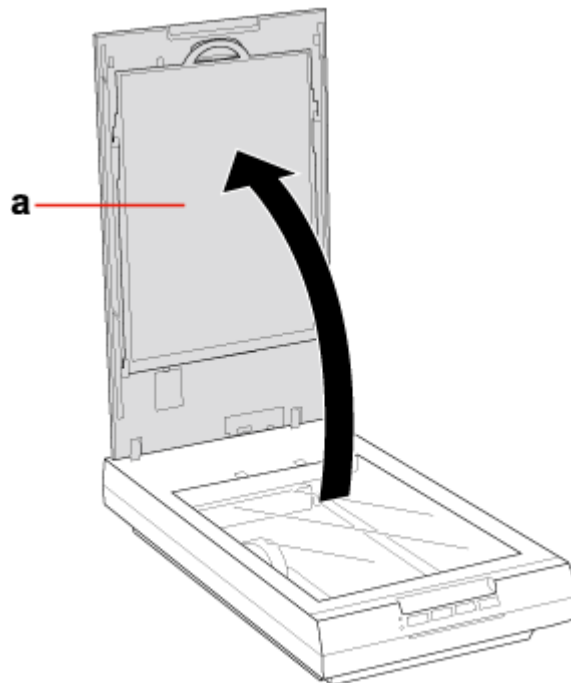
**Caution:**

Do not place heavy objects on the document table glass and do not press the glass with too much force.

Placing Documents or Photos on the Document Table

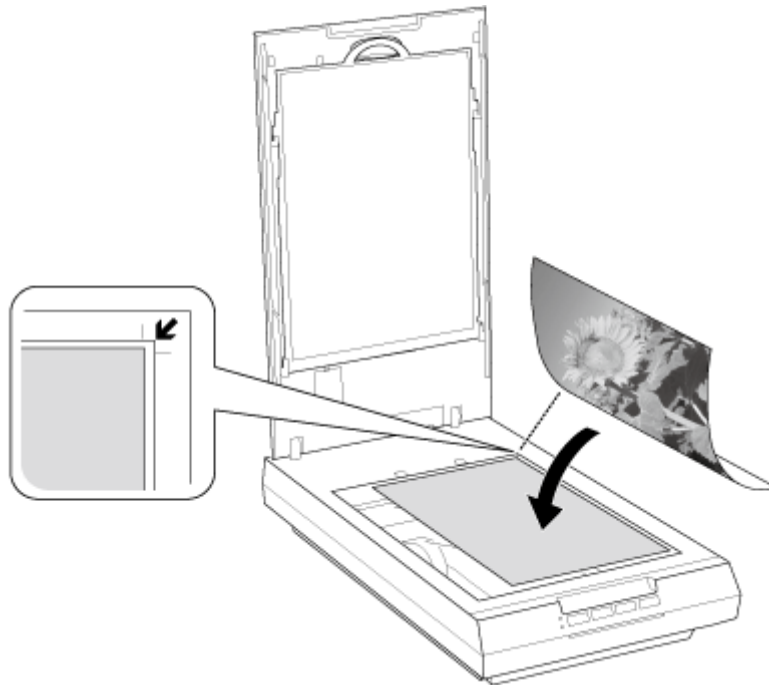
1. Open the scanner cover.

Make sure the document mat is installed inside the cover. If it is not installed, see “Replacing the Document Mat” on page 33 for instructions.



a. document mat

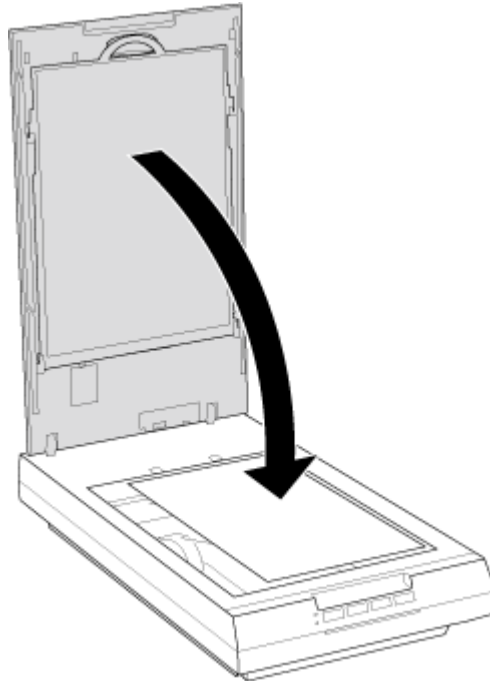
2. Place your document or photo face down on the document table. Make sure the upper right corner of the document or photo is against the corner of the scanner, next to the arrow mark.



Note:

If you are scanning multiple photos at once, position each photo at least 20 mm (0.8 inch) apart from the others.

3. Close the scanner cover gently so that your original does not move.



Note:

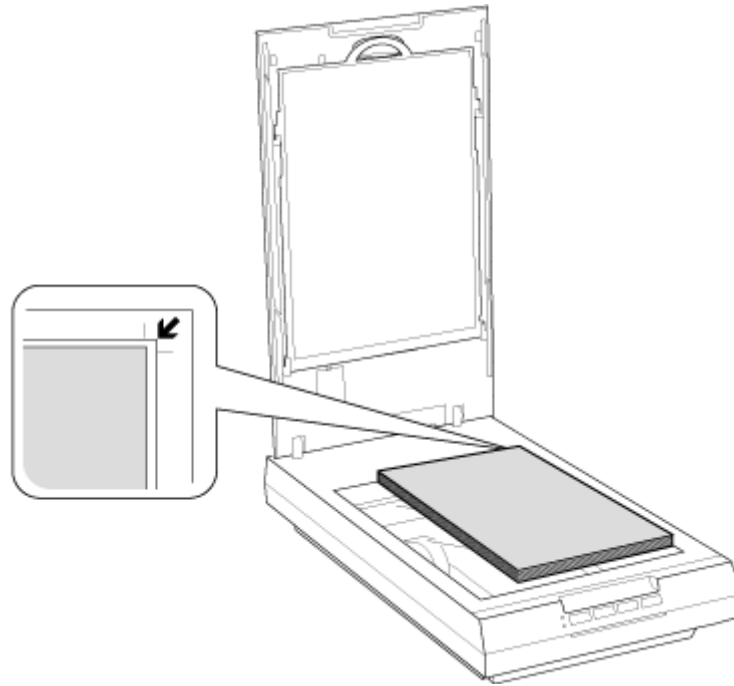
- ❑ *Always keep the document table clean.*
- ❑ *Do not leave photos on the document table for an extended period of time as they may stick to the glass.*

To start scanning, see “Starting Epson Scan” on page 34 for instructions.

Placing Large or Thick Documents

When you scan a large or thick document, you can pull the scanner cover straight up.

1. Place a large or thick document on the document table.



2. Close the document cover and hold it down firmly as you scan.

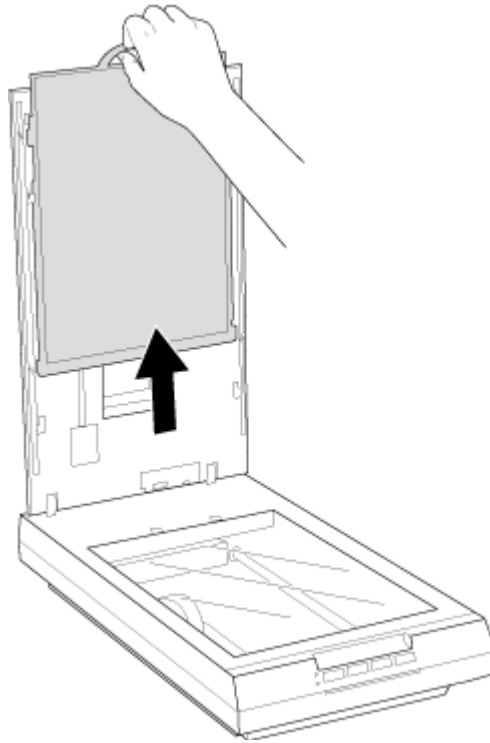


Placing Film or Slides

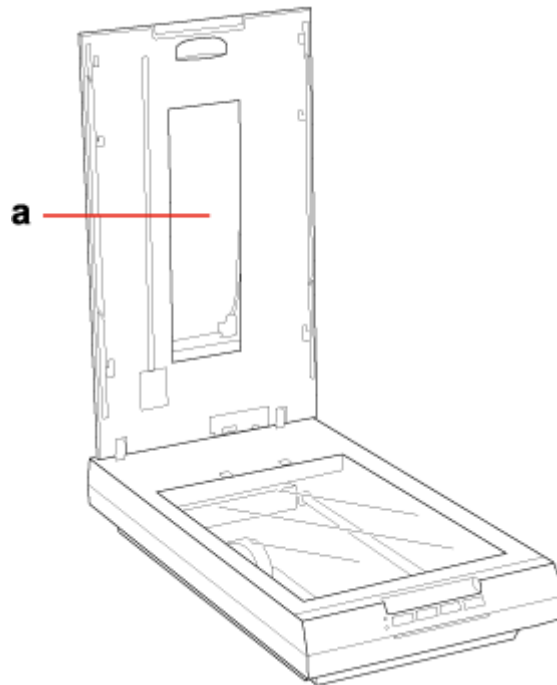
Removing the Document Mat

To scan film strips or slides, you need to remove the document mat from the scanner cover. This uncovers the transparency unit window so your scanner can use it to scan your film or slides.

1. Open the scanner cover and gently slide up the document mat to remove it.



2. Use a soft cloth to wipe the transparency unit window and the document table before placing your film or slides.



a. transparency unit window

To place film for scanning, see “Placing Film in the Holder” on page 25.

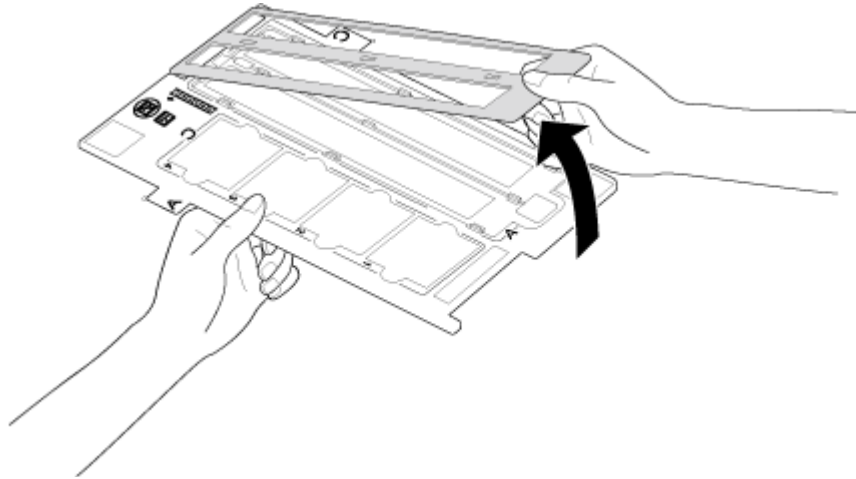
To place slides for scanning, see “Placing Slides in the Holder” on page 31.

To replace the document mat, see “Replacing the Document Mat” on page 33.

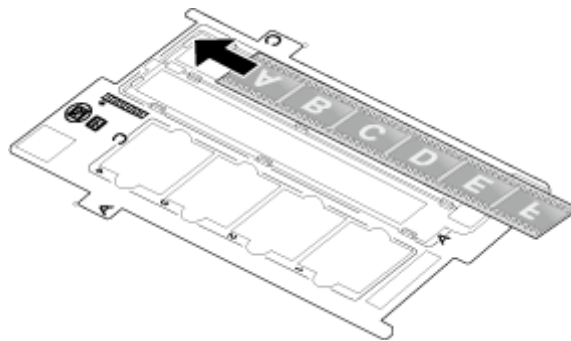
Placing Film in the Holder

Placing 35 mm Film Strips

1. Open the cover of the 35 mm film strip holder.



2. Slide one or two film strips all the way into the film holder with the shiny base side facing down. Your images and any wording on the film strips should appear backwards on the side that faces up.

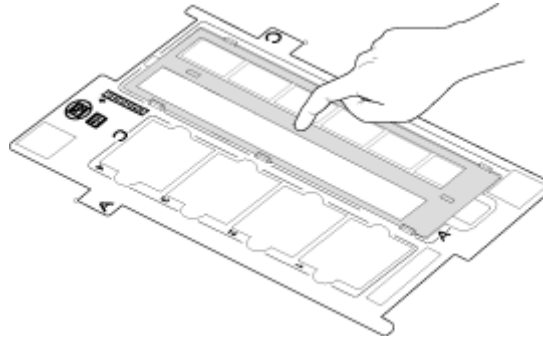


Note:

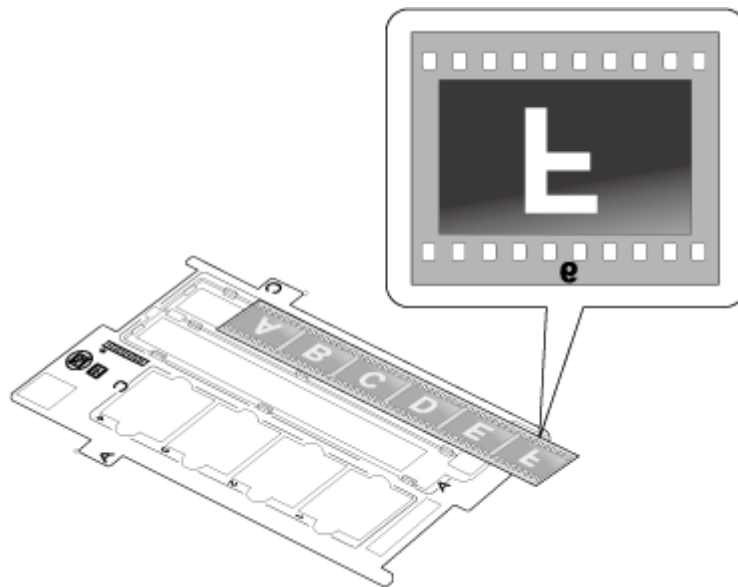
- ❑ *Hold the edge of the film gently or use gloves to touch the film; otherwise you may damage the film.*
- ❑ *Make sure the white stickers on the back of the film holder and the areas around them are not scratched, dusty, or covered in any way. If the areas are obscured, the scanner may have trouble recognizing your film in Full Auto Mode.*

❑ *Do not cover the small holes in the film holder.*

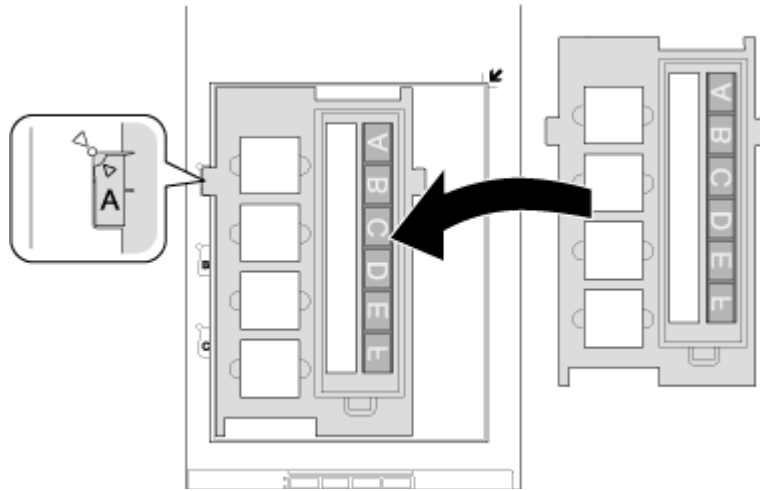
3. Close the cover and press it down until you hear a click. Then press down on all the edges of the covers to secure them.



4. Make sure the film strip is placed as shown.



5. Place the film holder on the document table so that it is aligned as shown. Make sure the tab labelled "A" on the film holder fits into the area labelled "A" on the scanner.



6. Make sure you removed the document mat. See "Removing the Document Mat" on page 22.
7. Close the scanner cover.

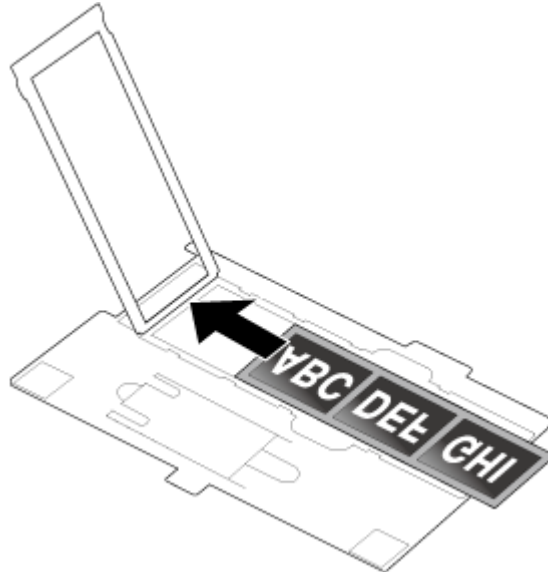
To scan your film, see "Starting Epson Scan" on page 34.

When you are finished scanning film, be sure to replace the document mat before scanning documents or photos. See "Replacing the Document Mat" on page 33.

Placing Medium Format Film

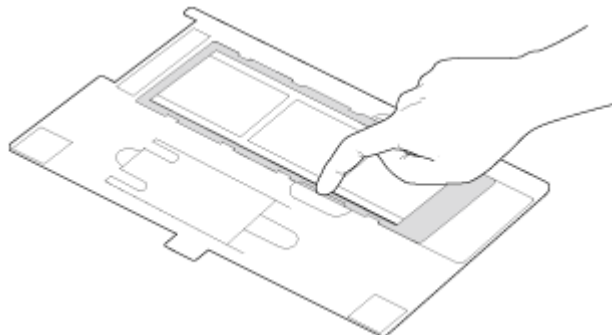
1. Open the cover on the medium format film holder.

2. Slide one medium format film image into the film holder with the shiny base side facing down. Your image and any wording on the film should appear backwards on the side that faces up. Make sure the entire image frame is positioned in the film holder opening.

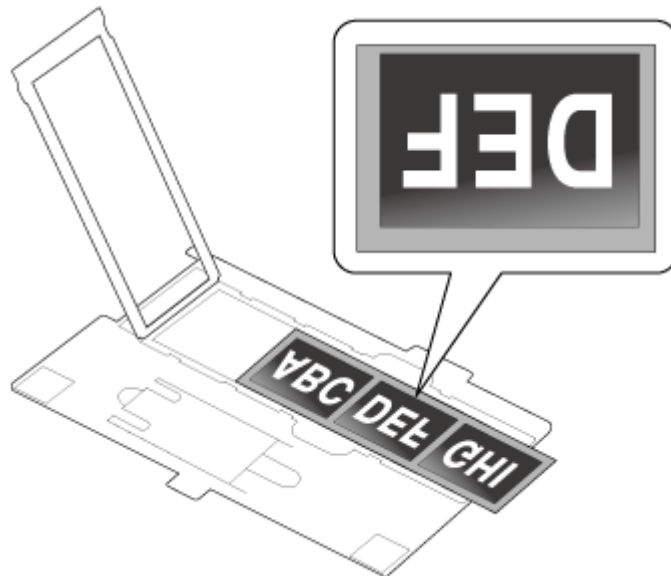


Note:

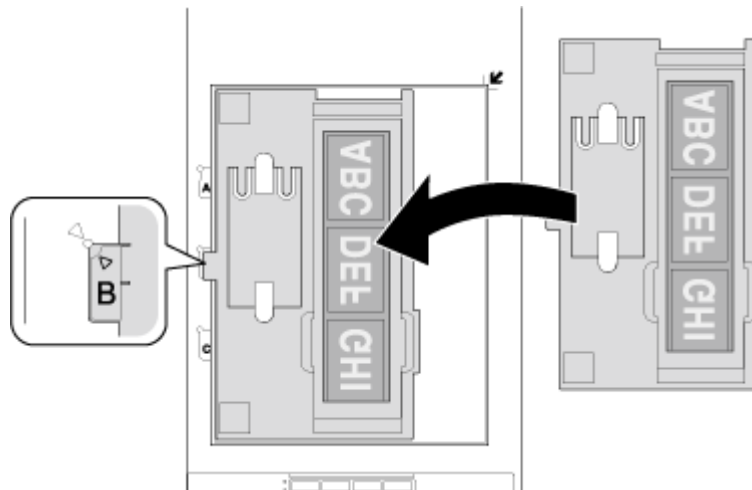
- ☐ *Hold the edge of the film gently or use gloves to touch the film; otherwise you may damage the film.*
 - ☐ *Do not cover any of the tiny holes in the film holder or the scanner may have trouble recognizing which film holder you are using.*
3. Close the cover over the film and press it down until it clicks. Then press down on all the edges of the cover to secure it.



4. Make sure the film strip is placed as shown.



5. Place the film holder on the document table so that it is aligned with the upper left corner. Make sure the tab labelled "B" on the film holder fits into the area labelled "B" on the scanner.



6. Make sure you removed the document mat. See "Removing the Document Mat" on page 22.
7. Close the scanner cover.

Note:

You cannot use Full Auto Mode to scan medium format film.

When you are finished scanning film, be sure to replace the document mat before scanning documents or photos. See “Replacing the Document Mat” on page 33.

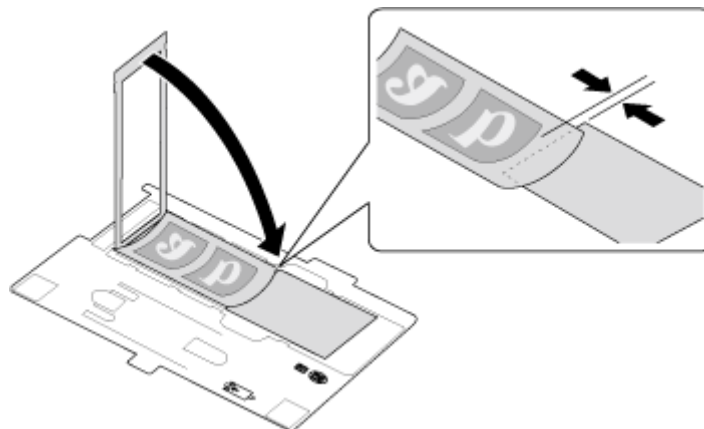
Using the scanning support sheet

When the film is curled, flatten the film using the scanning support sheet that came with the medium format film holder.



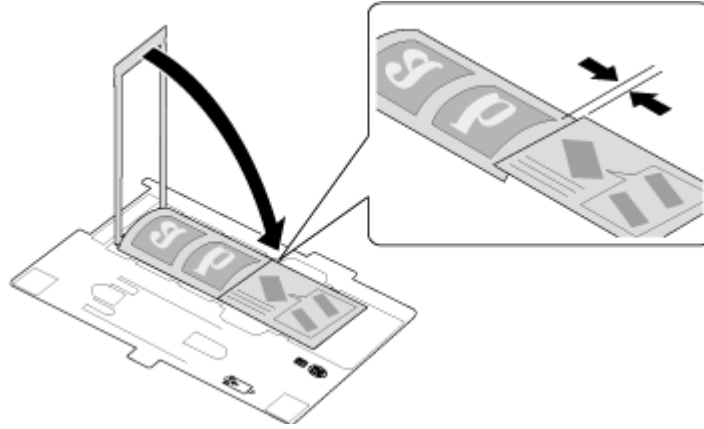
Caution:

- ☐ *Keep at least 2 mm space between the image frame and scanning support sheet.*
- ☐ *Make sure that the glossy side contacts with the film surface. When you set the scanning support sheet upside down, it may damage the film.*
- ☐ **When the film is curled downwards:**
Place the scanning support sheet under the film with glossy surface facing up. Then, close the holder cover.



❑ **When the film is curled upwards:**

Place the scanning support sheet on the film with glossy surface facing down. Then, close the holder cover.



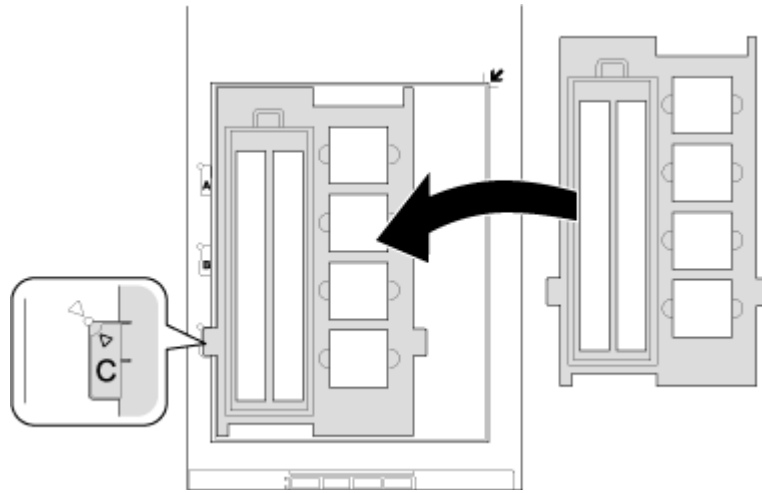
Placing Slides in the Holder

You can scan up to four 35 mm slides at a time using the slide portion of the film holder.

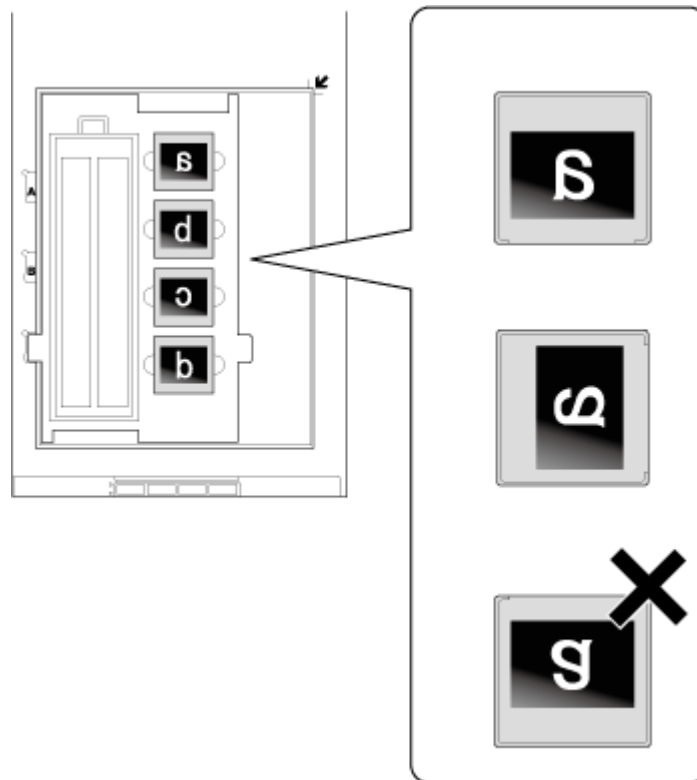
Note:

- ❑ *Make sure the white stickers on the back of the film holder and the areas around them are not scratched, dusty, or covered in any way. If the areas are obscured, the scanner may have trouble recognizing your slides in Full Auto Mode.*
- ❑ *Do not cover the small holes on the film holder.*

1. Place the film holder on the document table so that it is aligned as shown. Make sure the tab labelled "C" on the film holder fits into the area labelled "C" on the scanner.



2. Place up to four slides in the film holder with the shiny base side facing down. Your images should appear backwards on the side that faces up. Your images should be oriented as shown.



Note:

Make sure you place the long edge of the slide in the film holder as shown above.

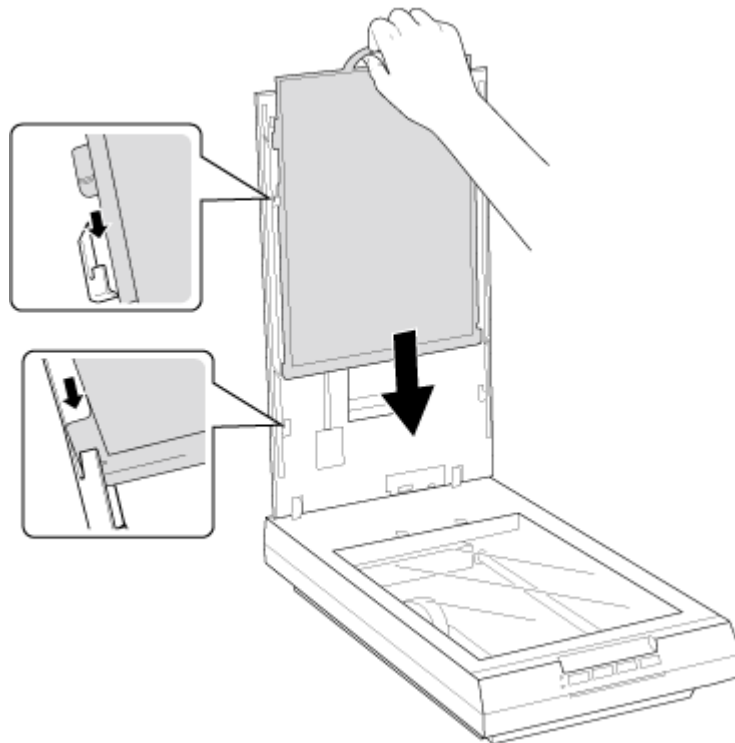
3. Make sure you removed the document mat. See “Removing the Document Mat” on page 22.
4. Close the scanner cover.

To scan your slides, see “Starting Epson Scan” on page 34.

When you are finished scanning slides, be sure to replace the document mat before scanning documents or photos. See “Replacing the Document Mat” on page 33.

Replacing the Document Mat

Replace the document mat by sliding it into the notches in the scanner cover. Make sure the white surface faces outwards.

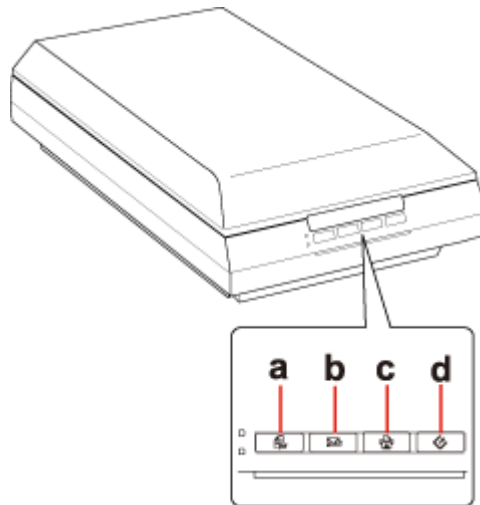






Chapter 4


Scanning Your Originals

Starting Epson Scan



Using the Scanner Buttons




- a.  PDF button
- b.  E-mail button
- c.  Copy button
- d.  Start button

You can start Epson Scan just by pressing the  Start button on the scanner. The Epson Scan window automatically opens. See “Selecting an Epson Scan Mode” on page 35 for instructions on selecting an Epson Scan mode.

You can also start scanning by pressing the following buttons on the scanner.

- ☐  PDF button lets you scan multiple originals and save them as one PDF file on your computer. See “Scanning to a PDF File” on page 101 for instructions.
- ☐  E-mail button lets you scan and attach the image file to an e-mail message. See “Scanning Directly to an E-mail” on page 127 for instructions.

- ❑  **Copy** button lets you use your scanner along with a printer connected to your computer just like you would use a copy machine. See “Using the Scanner as a Copier” on page 99 for instructions.

Note for Mac OS X 10.5.8 users:

Copy Utility is not supported for Mac OS X 10.5.8.

Using the EPSON Scan Icon

You can start Epson Scan by double-clicking the **EPSON Scan** icon.

Windows:

Double-click the **EPSON Scan** icon on the desktop.

Or, select the start button icon or **Start > All Programs** or **Programs > EPSON > EPSON Scan > EPSON Scan**.

Mac OS X:

Select **Applications > EPSON Software > EPSON Scan**.

The Epson Scan window automatically opens. See “Selecting an Epson Scan Mode” on page 35 for instructions on selecting an Epson Scan mode.

Note:

*You can use any TWAIN-compliant scanning program to scan with your scanner. You open the program, select **Epson Scan**, and **scan**. When you are finished scanning, the scanned image opens in your scanning program so you can modify, print, and save it.*

Selecting an Epson Scan Mode

Epson Scan offers several scanning modes to choose from.

- ❑ **Full Auto Mode** lets you scan quickly and easily, without selecting any settings or previewing your image. Full Auto Mode is best when you need to scan your originals at 100% size and you do not need to preview the images before scanning. You can restore faded colors or remove dust marks in Full Auto Mode. This is the default mode in Epson Scan.

See “Changing the Scan Mode” on page 36 for instructions on switching to Full Auto Mode.

See “Scanning in Full Auto Mode” on page 38 for instructions on making settings in Full Auto Mode.

- ❑ **Office Mode** lets you quickly select settings for scanning text documents and check their effects with a preview image.

See “Changing the Scan Mode” on page 36 for instructions on switching to Office Mode.

See “Scanning in Office Mode” on page 42 for instructions on making settings in Office Mode.

- ❑ **Home Mode** lets you customize some scanning settings and check their effects with a preview image.

Home Mode is best when you want to preview images of your originals before scanning them. You can size the image as you scan, adjust the scan area, and adjust many image settings, including color restoration, dust removal, and backlight correction.

See “Changing the Scan Mode” on page 36 for instructions on switching to Home Mode.

See “Scanning in Home Mode” on page 44 for instructions on making settings in Home Mode.

- ❑ **Professional Mode** gives you total control of your scanning settings and lets you check their effects with a preview image.

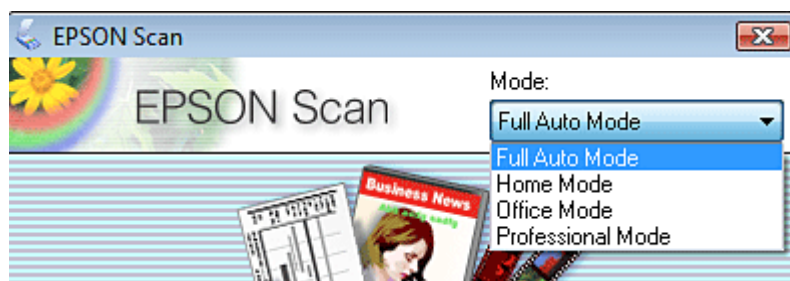
Professional Mode is best when you want to preview your image and make extensive, detailed corrections to it before scanning. You can sharpen, color correct, and enhance your image with a full array of tools, including color restoration, dust removal, and backlight correction.

See “Changing the Scan Mode” on page 36 for instructions on switching to Professional Mode.

See “Scanning in Professional Mode” on page 46 for instructions on making settings in Professional Mode.

Changing the Scan Mode

To change the scan mode, click the arrow in the Mode box in the upper right corner of the Epson Scan window. Then, select the mode you want to use from the list that appears.



Note:

The mode you select remains in effect when you start Epson Scan next time.

For instructions on scanning using these modes, see one of these sections.

Full Auto Mode: “Scanning in Full Auto Mode” on page 38

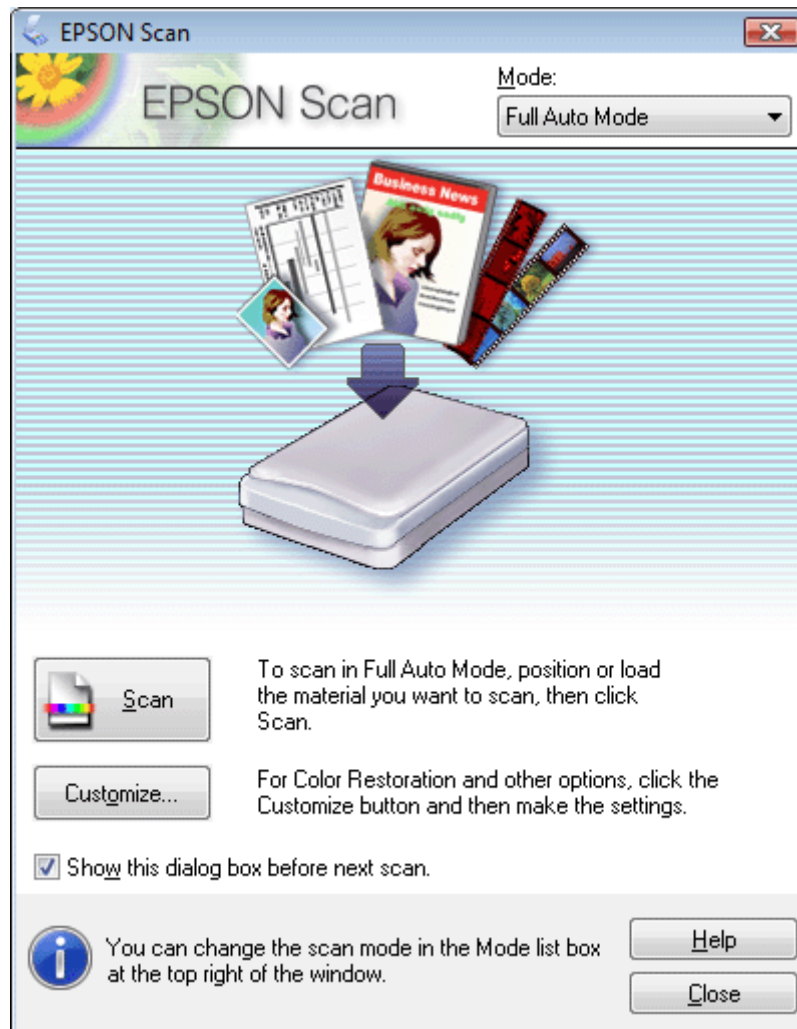
Office Mode: “Scanning in Office Mode” on page 42

Home Mode: “Scanning in Home Mode” on page 44

Professional Mode: “Scanning in Professional Mode” on page 46

Scanning in Full Auto Mode

When you start Epson Scan for the first time, it runs in Full Auto Mode and displays the Epson Scan Full Auto Mode window.



Note for film or slides:

In Full Auto Mode, you can scan only 35 mm color film strip or color positive slides. To scan other types of film, use Home Mode or Professional Mode. To change the scan mode, see “Changing the Scan Mode” on page 36.

Note:

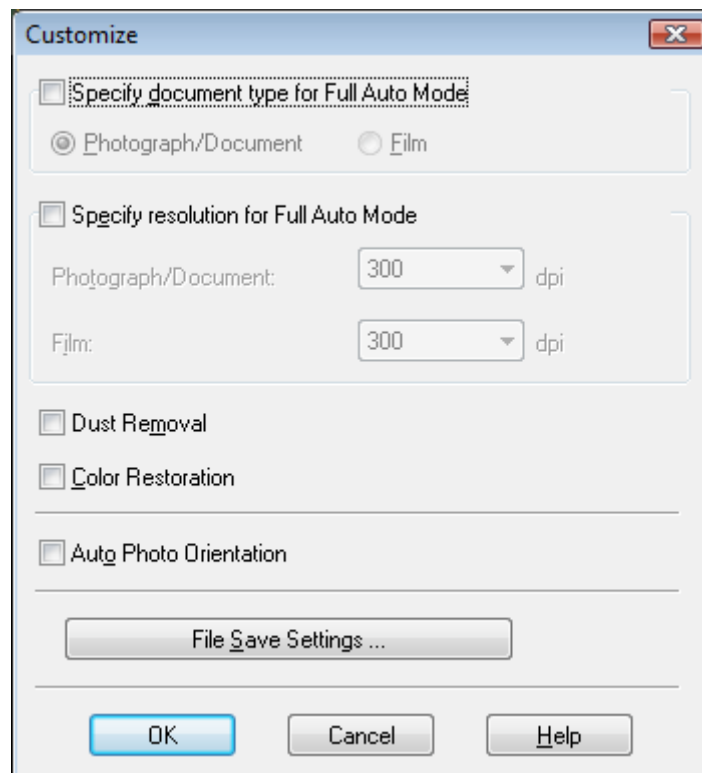
If the **Show this dialog box before next scan** check box is cleared, the Epson Scan starts scanning immediately without displaying this screen. To return to this screen, click **Cancel** in the Scanning dialog box during scanning.

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

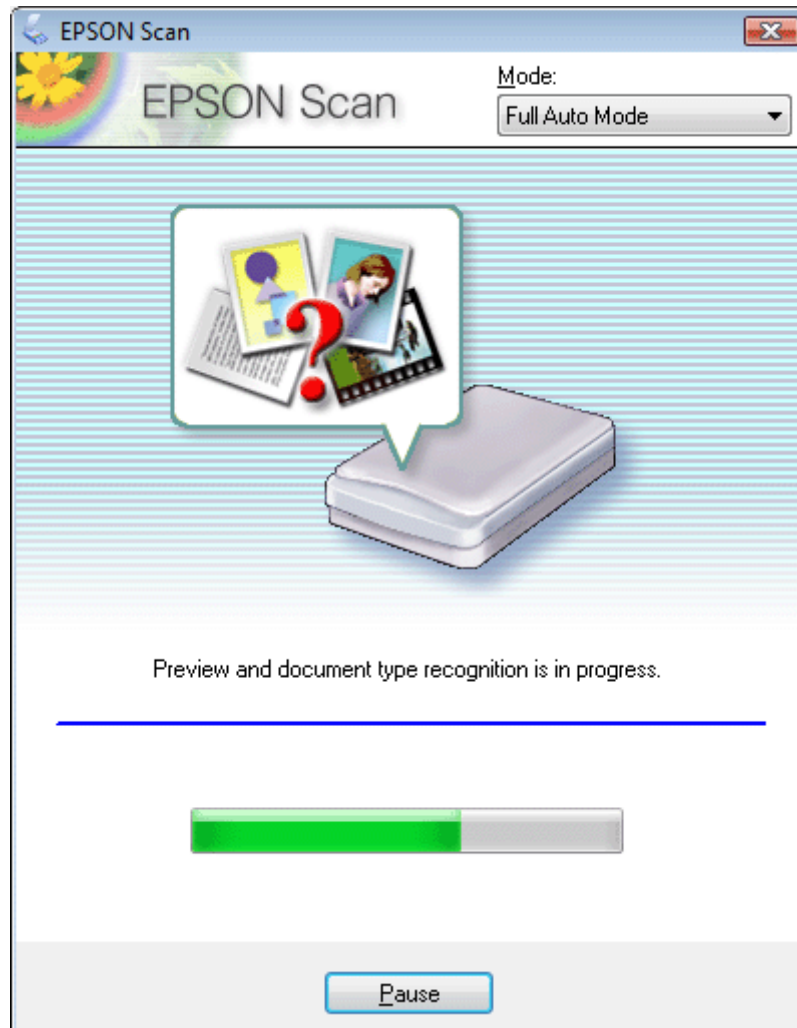
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. Select **Full Auto Mode** from the Mode list. See “Changing the Scan Mode” on page 36 for instructions.
4. If you want to select a custom resolution, restore faded colors, or remove dust marks, click **Customize**. You see the Customize window.



Note:

If you started scanning from a TWAIN-compliant program, the File Save Settings button does not appear.

5. Select your settings and click **OK**. For details on selecting the settings in the Customize window, see Epson Scan Help.
6. Click **Scan**. Epson Scan starts scanning in Full Auto Mode.



Epson Scan previews each image, detects which type of original it is, and selects the scan settings automatically. After a moment, you see a small preview of each image in the Epson Scan window.

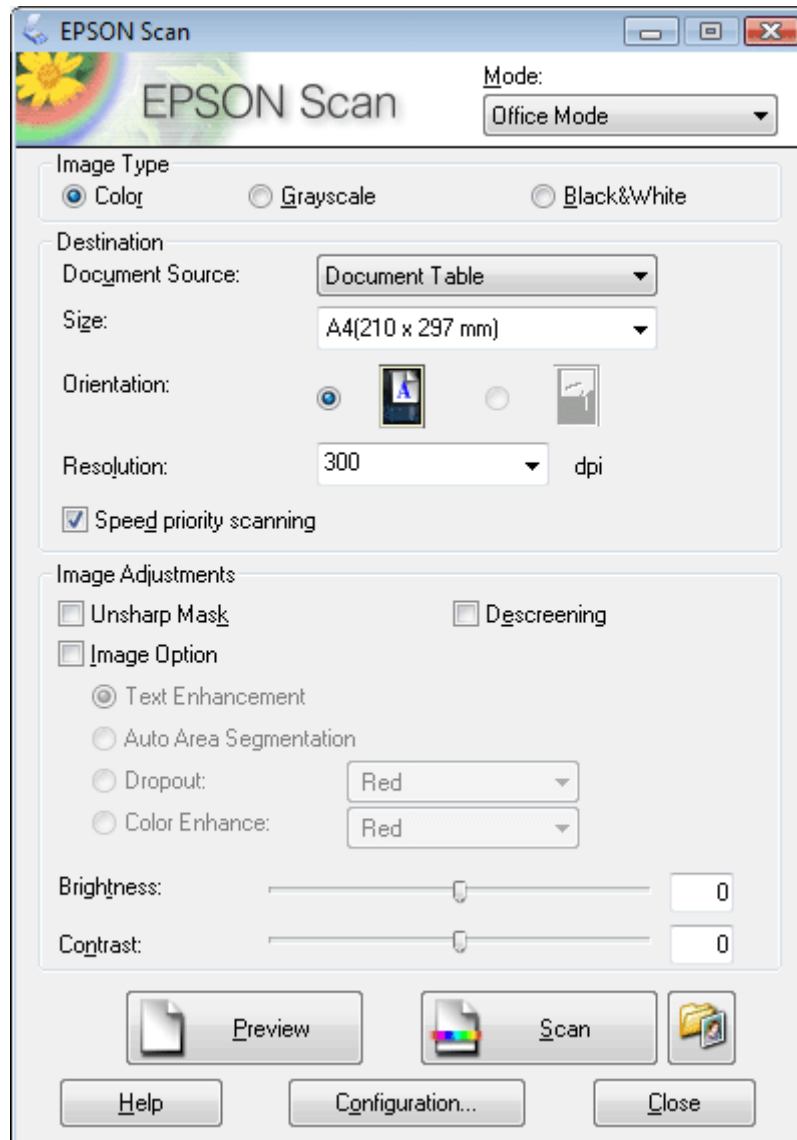
Note:

- ❑ *It takes a few minutes to scan a full film strip.*
- ❑ *If you need to change any settings, click **Pause**. You will return to the Epson Scan Full Auto Mode window.*
- ❑ *If you need to cancel scanning, click **Cancel** when it appears.*

What happens next depends on how you started your scan. See “Finishing the Scan” on page 75 for instructions.

Scanning in Office Mode

When you select Office Mode, you see the Epson Scan Office Mode window.



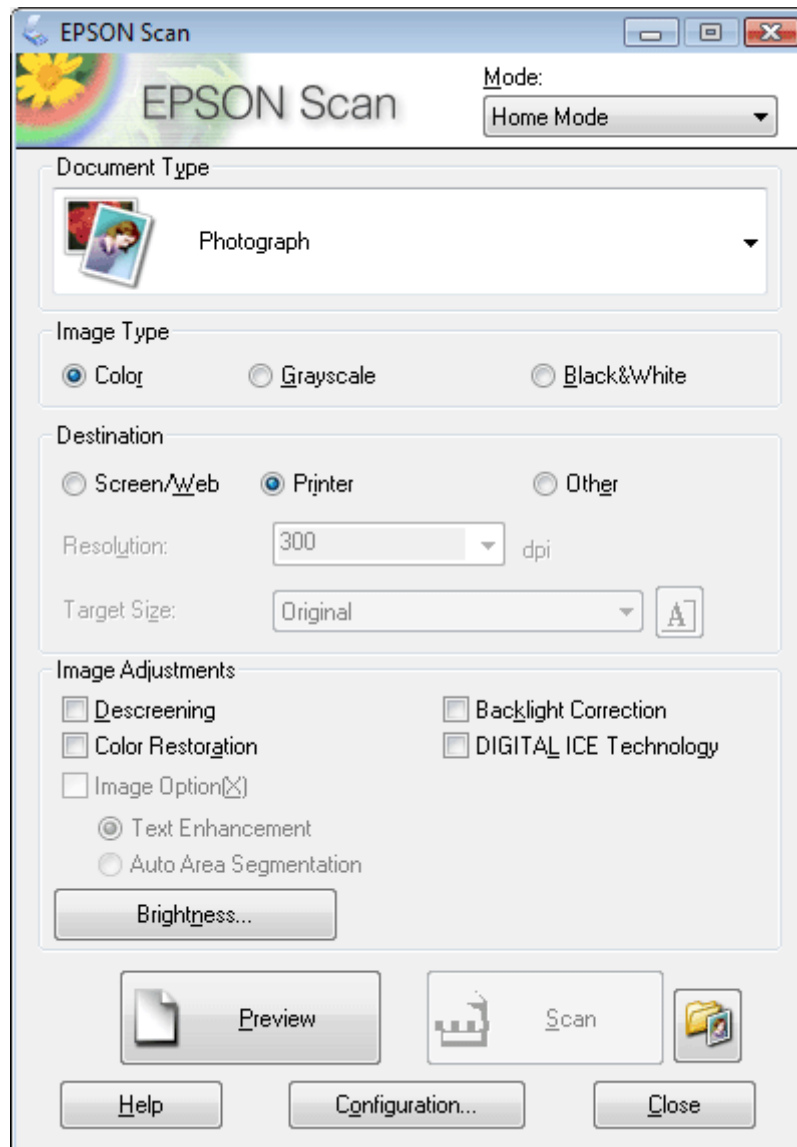
1. Place the original(s) on the document table. See “Placing Documents or Photos” on page 19 for instructions.
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. Select **Office Mode** in the Mode list. See “Changing the Scan Mode” on page 36 for instructions.

4. Select **Color**, **Grayscale**, or **Black&White** as the Image Type setting.
5. Select **Document Table** as the Document Source setting.
6. Select the size of your original document as the Size setting.
7. Click the arrow to open the **Resolution** list and select an appropriate resolution for your original. See “Selecting the Scan Resolution” on page 51 for instructions.
8. Click **Preview** to preview your image(s). The Preview window appears and displays your image. See “Previewing and Adjusting the Scan Area” on page 54 for instructions.
9. Modify the image quality if necessary. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
10. Click **Scan**.

What happens next depends on how you started your scan. See “Finishing the Scan” on page 75 for instructions.

Scanning in Home Mode

When you select **Home Mode**, you see the Epson Scan Home Mode window.



1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

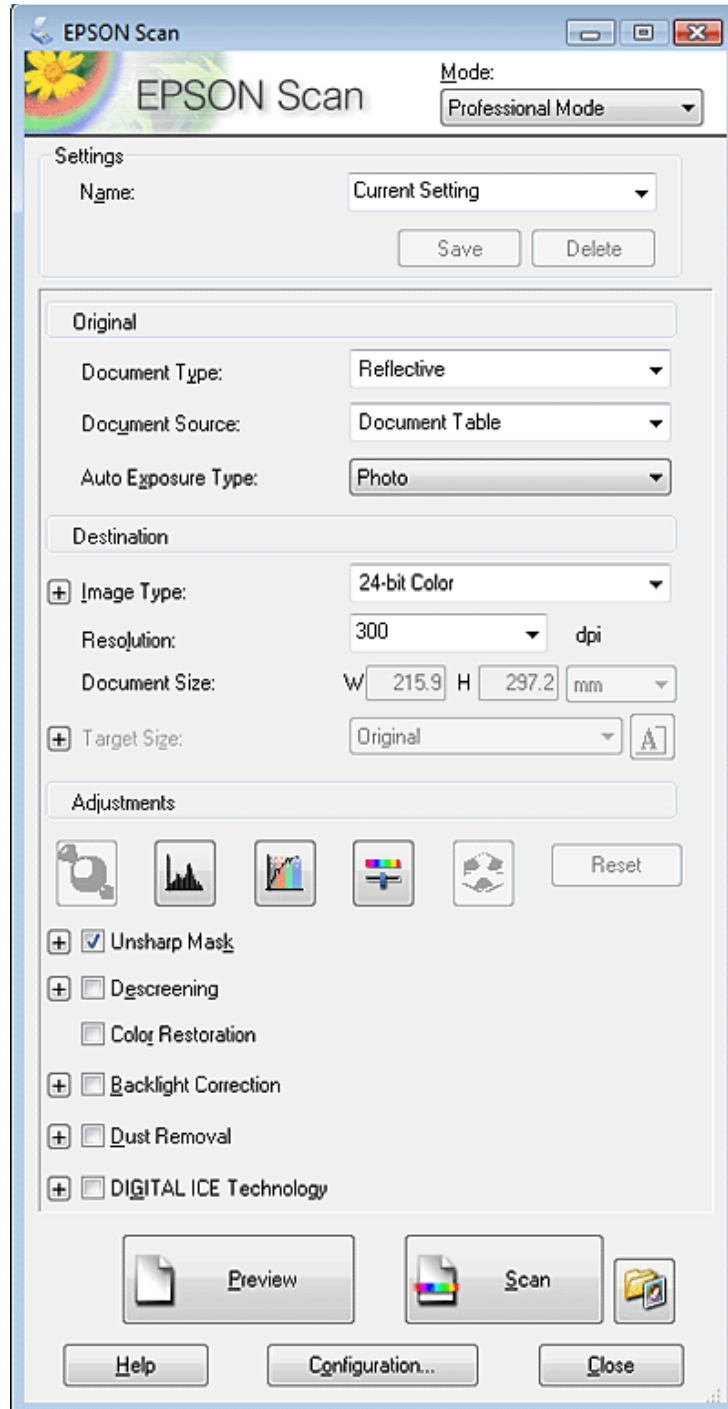
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. Select **Home Mode** in the Mode list. See “Changing the Scan Mode” on page 36 for instructions.
4. Click the arrow to open the **Document Type** list, and select the type of your original(s) you are scanning.
5. Select **Color**, **Grayscale**, or **Black&White** as the Image Type setting.
6. In the Destination box, click the button for the way you plan to use the scanned image(s).
 - ☐ **Screen/Web** for images you will view only on a computer screen or post on the web.
 - ☐ **Printer** for image(s) you will be printing or converting to editable text with an OCR (Optical Character Recognition) program.
 - ☐ **Other** if you want to select a specific resolution for other purposes.

Epson Scan selects a default resolution setting based on the Destination setting you select. If you selected **Other** as the Destination setting to select a specific resolution, see “Selecting the Scan Resolution” on page 51 for instructions.
7. Click **Preview** to preview your image(s). The Preview window appears and displays your image(s). See “Previewing and Adjusting the Scan Area” on page 54 for instructions.
8. Modify the image quality, if necessary. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
9. Click the arrow to open the **Target Size** list to select the size of the scanned image(s), if necessary. You can scan your images at their original size, or you can reduce or enlarge their size by selecting Target Size. See “Selecting the Scan Size” on page 70 for instructions.
10. Click **Scan**.

What happens next depends on how you started your scan. See “Finishing the Scan” on page 75 for instructions.

Scanning in Professional Mode

When you select **Professional Mode**, you see the Epson Scan Professional Mode window.



1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. Select **Professional Mode** in the Mode list. See “Changing the Scan Mode” on page 36 for instructions.
4. Click the arrow to open the **Document Type** list and select **Reflective** (for scanning documents or photos) or **Film** (for scanning film or slides).
5. If you selected **Reflective** (for scanning documents or photos) as the Document Type setting, click the arrow in the **Auto Exposure Type** list and select **Photo** or **Document**.

If you selected **Film** (for scanning film or slides) as the Document Type, click the arrow in the **Film Type** list and select **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.

6. Click the arrow to open the **Image Type** list and select the detailed image type you are scanning.

Image Type setting	Type of image you are scanning
48-bit Color	Color photos that you may want to modify in a 48-bit image-editing program
24-bit Color	Color photos
Color Smoothing	Color graphics, such as a chart or graph
16-bit Grayscale	Black-and-white photos with many shades of gray
8-bit Grayscale	Black-and-white photos with just a few shades of gray
Black & White	Documents with black text and/or line art

Note:

If you select **8-bit Grayscale** or **Black & White**, you can also select an **Image Option** setting, as described below.

Image Option Setting	Description
None	No Image Option setting is applied.
Dropout: Red	Drops out red from the scan.

Dropout: Green	Drops out green from the scan.
Dropout: Blue	Drops out blue from the scan.
Color Enhance: Red	Enhances red in the scan.
Color Enhance: Green	Enhances green in the scan.
Color Enhance: Blue	Enhances blue in the scan.

7. Click the arrow to open the **Resolution** list and select an appropriate resolution for your original(s). See “Selecting the Scan Resolution” on page 51 for instructions.
8. Click **Preview** to preview your image(s). The Preview window appears and displays your image(s). See “Previewing and Adjusting the Scan Area” on page 54 for instructions on settings in the Preview window.
9. Click the arrow to open the **Target Size** list to select the size you want of the scanned image(s), if necessary. You can scan your images at their original size, or you can reduce or enlarge their size by selecting Target Size. See “Selecting the Scan Size” on page 70 for instructions.
10. Modify the image quality, if necessary. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
11. Click **Scan**.

What happens next depends on how you started your scan. See “Finishing the Scan” on page 75 for instructions.

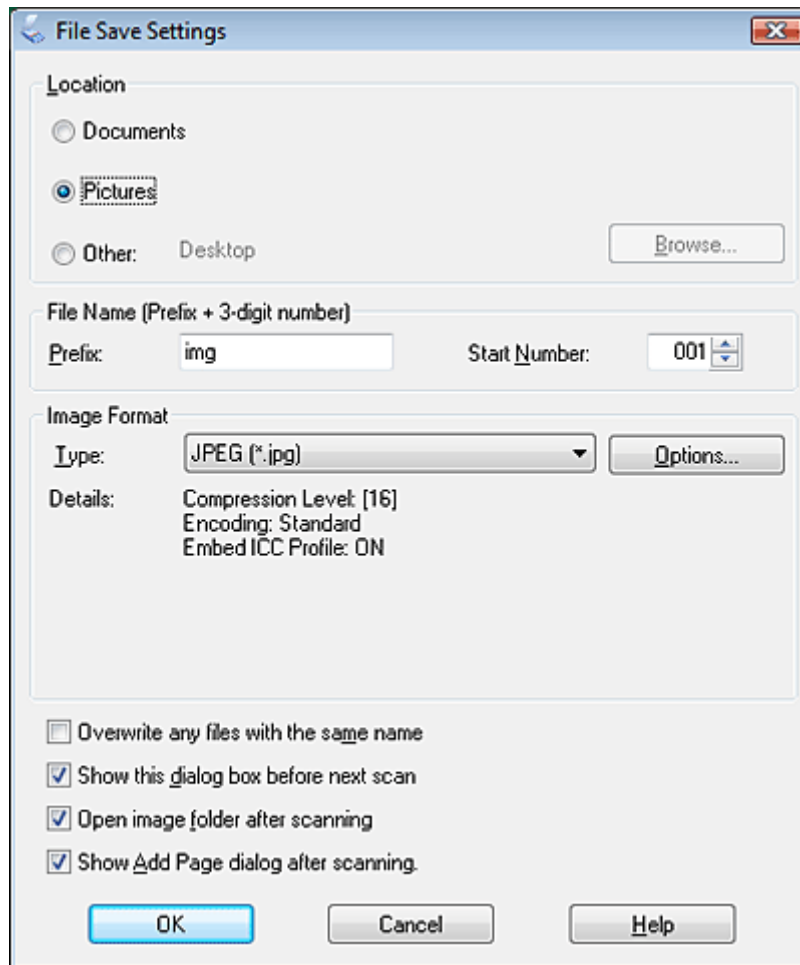
Selecting File Save Settings

When you see the File Save Settings window, you can select the location, name, and format of the scanned image file.

1. **Full Auto Mode:** Click **Customize**, then click **File Save Settings**.

Office Mode, Home Mode, or Professional Mode: Click the  **File Save Settings** icon to the right of the Scan button.

The File Save Settings window appears.



Note:

If you start Epson Scan from a TWAIN-compliant program, the File Save Settings button or



File Save Settings icon does not appear.

2. In the File Save Settings window, specify the file folder in which you want to save your scanned image.
Click the **Documents** or **Pictures** radio button, or the **My Documents** or **My Pictures** radio button.
If you want to select another folder, click the **Other** radio button, then click **Browse** (Windows) or **Choose** (Mac OS X) and select the folder.
If you want to save your image on the desktop, simply click the **Other** radio button.

- Specify a file name prefix with an alphanumeric character string. A 3-digit number is automatically added to the file name, but you can change the Start Number if you like. If you are scanning multiple images at once, each image will receive a different 3-digit number.

Note:

The following characters cannot be used in the prefix.

*Windows: \, /, :, _ *, ?, ", <, >, |*

Mac OS X: :

- Click the arrow to open the **Type** list and select a file format as described in the following table. Depending on the format, the Options button may be available for making detailed settings.


Format (File Extension)	Description
BITMAP (*.bmp) (Windows only)	A standard image file format for Windows. Most Windows programs, including word processing programs, can read and prepare images in this format.
JPEG (*.jpg)	A compressed file format in which the Compression Level can be selected. The JPEG format lets you highly compress image data. However, the higher the compression, the lower the image quality. Any lost image quality data cannot be restored, and the quality deteriorates each time the data is saved. The TIFF format is recommended when modification and retouching are required.
Multi-TIFF (*.tif)	A TIFF format where multiple pages are saved to the same file. You can also edit the scanned images before saving them. See Epson Scan Help for details. To open Multi-TIFF files, you need a program that supports it.
PDF (*.pdf)	A document format that can be read on both Windows and Macintosh systems (platform independent). To use PDF documents in Windows, you need Adobe Reader or Acrobat. Multi-page documents can be saved as one PDF file. When you save color or grayscale images in PDF, you can select a Compression Level.
PICT (*.pct) (Macintosh only)	A standard image file format for Macintosh. Most Macintosh programs, including word processing programs, can read and prepare images in this format.
PRINT Image Matching II JPEG (*.jpg) or TIFF (*.tif)	A file format that includes PRINT Image Matching II data for enhanced quality and a wider color range. Print Image Matching II compatible printers can then print this data for brilliant, true-to-life results. (PRINT Image Matching data does not affect the way the image displays on the screen.) Available in JPEG or TIFF format.
TIFF (*.tif)	A file format created for exchanging data between many programs, such as graphic and DTP software. When scanning black & white images, you can specify the Compression type.

- The check boxes at the bottom of the window give you these options.

☐ **Overwrite any files with the same name**

Select this option if you want to reuse the selected file name and location and overwrite previous files with the same names.

☐ **Show this dialog box before next scan** (Office Mode, Home Mode, or Professional Mode only)

Select this option if you want the File Save Settings window to appear automatically before you scan. If you deselect it, you must click the  **File Save Settings** icon to open the window before clicking the **Scan** button.

☐ **Open image folder after scanning**

Select this option if you want Windows Explorer or the Macintosh Finder to automatically open the folder where your scanned image file is saved when Epson Scan finishes scanning.

☐ **Show Add Page dialog after scanning**

Select this option if you want the Add Page Confirmation window to appear automatically after each scan in PDF or multi-Tiff. The Add Page Confirmation window includes the **Add page**, **Edit page**, and **Save File** buttons.

6. Click **OK**.

Detailed Setting Instructions

Selecting the Scan Resolution

You can select a specific Resolution setting for your images. Keep in mind that higher resolution settings increase scanning time, so do not select a higher resolution than you need. See the following table to reference the appropriate resolution setting to use so that you do not have to take more time than necessary.

What you will do with the scanned image	Suggested scan resolution
Send via e-mail, upload to web, or view only on the screen	96 to 150 dpi
Convert to editable text (OCR)	400 dpi
Searchable PDF	200 to 400 dpi
Print using ink jet printer with normal quality	150 dpi (Color or Grayscale) 360 dpi (Black & White)

Print using ink jet printer with high quality	300 dpi (Color or Grayscale) 720 dpi (Black & White)
Print using page printer	200 dpi (Color or Grayscale) 600 dpi (Black & White)
Fax	200 dpi
Enlarge after scanning at 100%	Increase Resolution setting by same amount you will increase image size after scanning.

To select the resolution setting, see one of these sections.

Full Auto Mode: “Selecting the Resolution in Full Auto Mode” on page 52

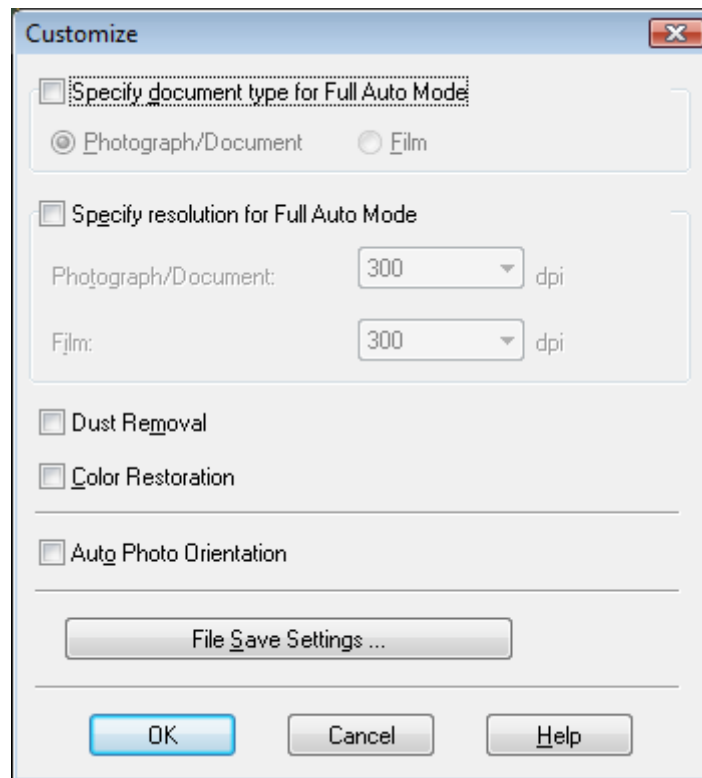
Home Mode: “Selecting the Resolution in Home Mode” on page 53

Office Mode or **Professional Mode:** “Selecting the Resolution in Office Mode or Professional Mode” on page 54

Selecting the Resolution in Full Auto Mode

You can change the resolution you want at any time. Follow these steps to select the resolution setting.

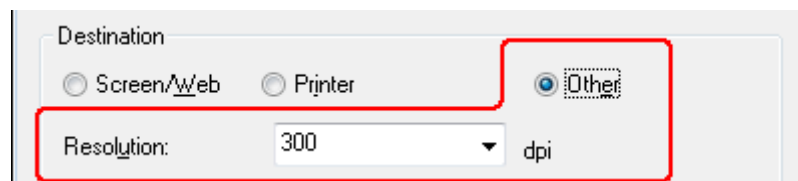
1. In the Full Auto Mode window, click **Customize**. The Customize window appears.



2. Click the **Specify resolution for Full Auto Mode** check box and select the number of dpi (dots per inch) at which you want to scan.

Selecting the Resolution in Home Mode

To change the resolution, first select **Other** as the Destination setting.

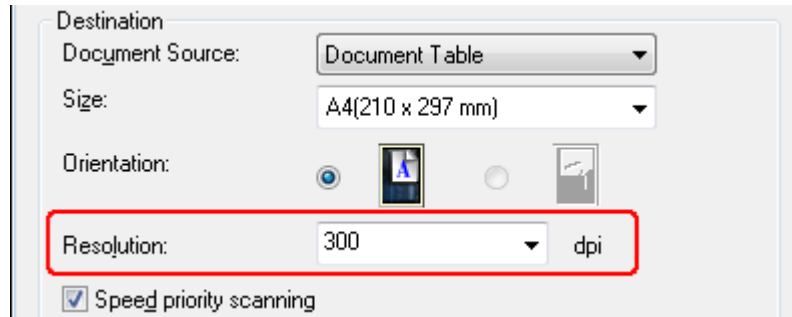


Click the arrow next to the **Resolution** list and select the number of dpi (dots per inch) at which you want to scan.

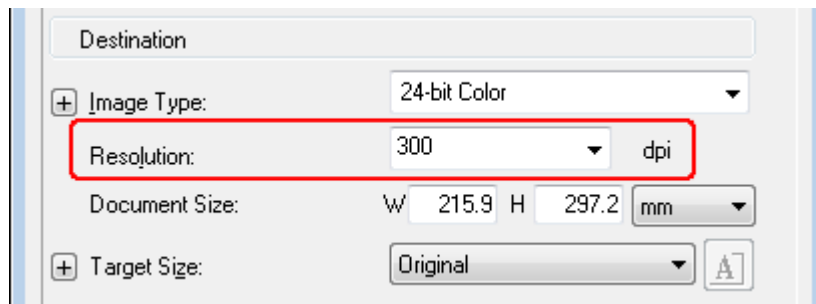
Selecting the Resolution in Office Mode or Professional Mode

You can select the resolution you want at any time.

Office Mode



Professional Mode



Click the arrow next to the **Resolution** list and select the number of dpi (dots per inch) at which you want to scan.

Previewing and Adjusting the Scan Area

Once you have selected your basic settings and resolution, you can preview your image and select or adjust the image area of the image(s) in a Preview window on your screen. There are two types of preview.

- ☐ Normal preview displays your previewed image(s) in their entirety. You must select the scan area and make any image quality adjustments manually.

- ❑ Thumbnail preview displays your previewed image(s) as thumbnail(s). Epson Scan automatically locates the edges of your scan area, applies automatic exposure settings to the image(s), and rotates the image(s) if necessary.

To preview your image, follow the steps below.

Note:

If you are using Full Auto Mode or Office Mode, the thumbnail preview is not available.

1. Click **Preview**. If you want to change the preview mode, select the **Normal** or **Thumbnail** tab on Preview window if it is available.

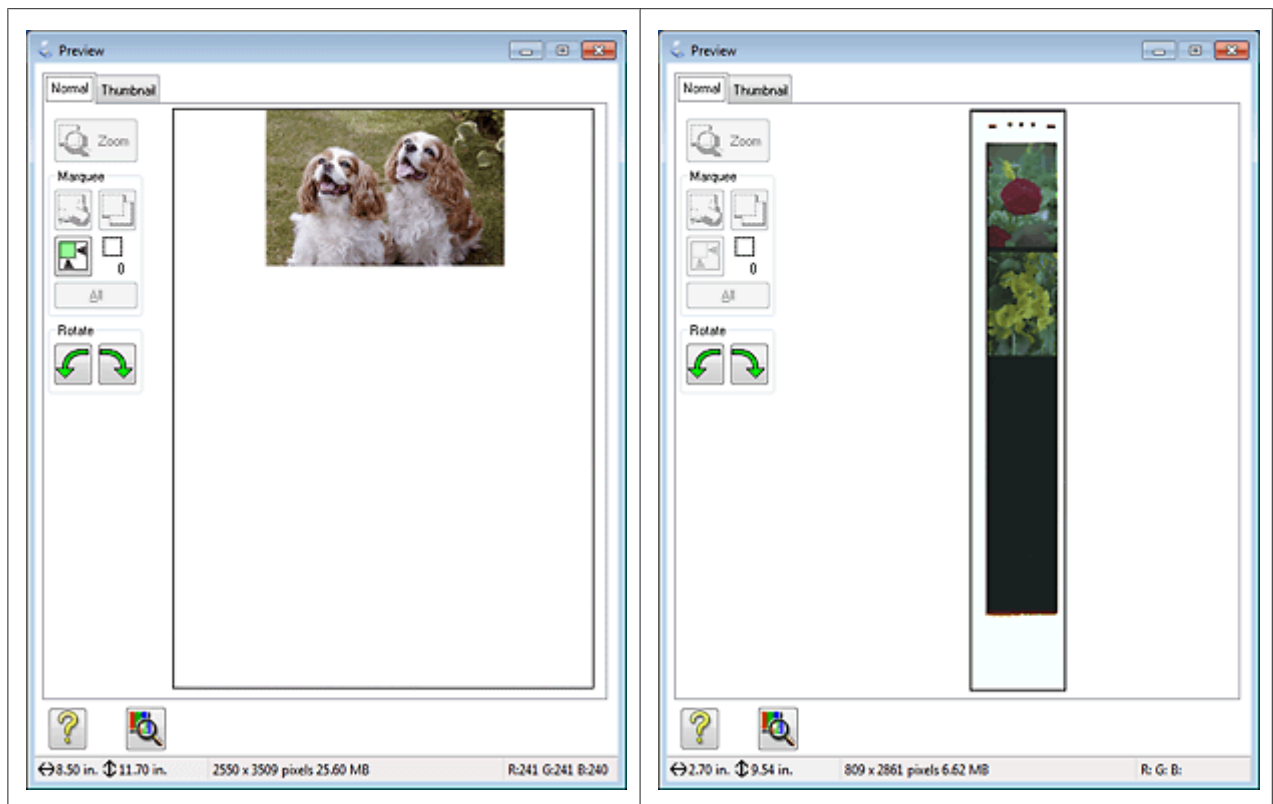
Note:

- ❑ *Depending on your document type and other settings, you may not be able to change the preview type.*
- ❑ *You can resize the Preview window. To resize the Preview window, click and drag the corner of the Preview window.*
- ❑ *If you preview with the Preview dialog not displayed, image(s) will be displayed in the default preview mode. If you preview with the Preview dialog displayed, image(s) will be displayed in the preview mode that was displayed just before previewing.*
- ❑ *Some of the settings that you change after preview will be initialized if you change the Preview mode.*

Epson Scan prescans your image(s) and displays them in one of the following Preview windows.

Normal preview

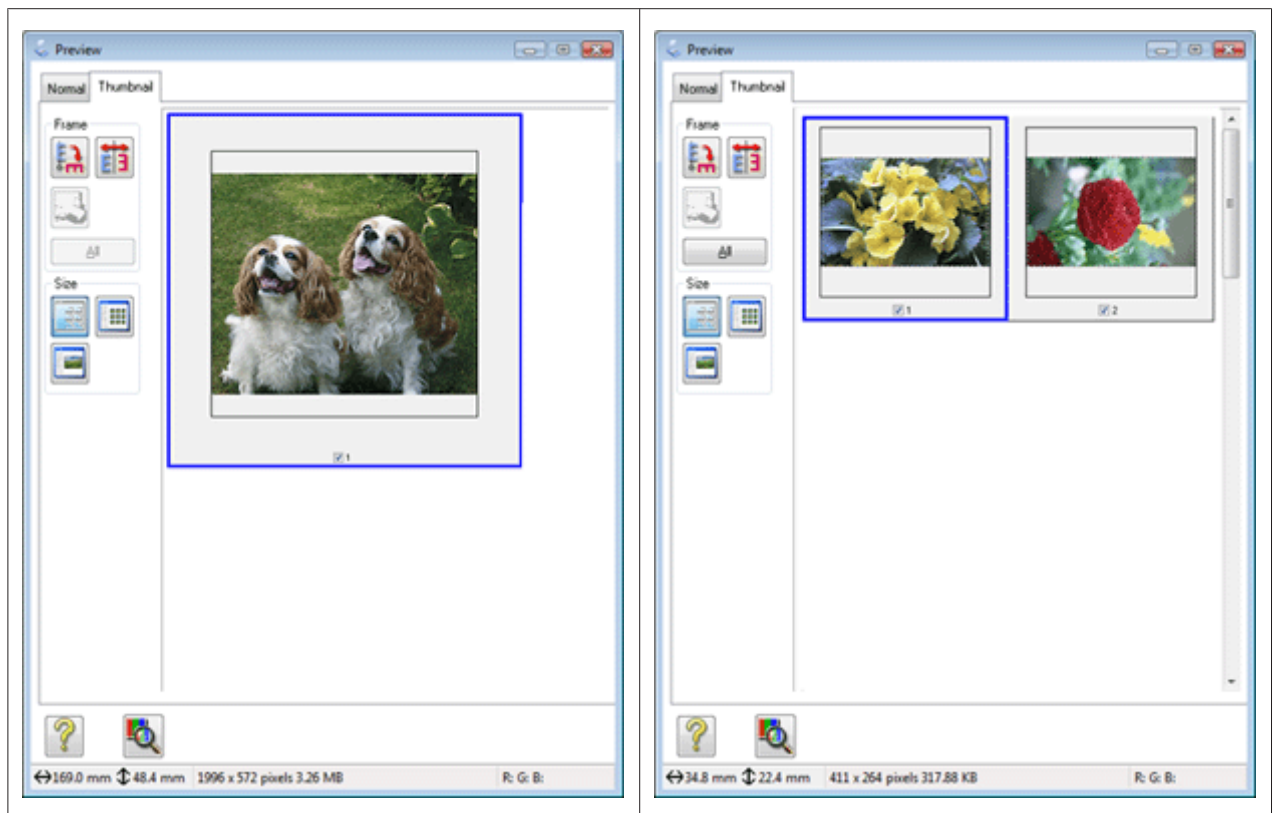
Document	Film
-----------------	-------------




Thumbnail preview

Document

Film



2. If you are viewing the normal preview, you can do the following to adjust the image(s).

- ☐ To select your scan area, click the  auto locate icon to create a marquee that marks the edges of your image area. You can move the marquee to change the scan area. See “Creating a Marquee on a Preview Image” on page 58 for instructions.



Note:

*If you are going to scan at a different size than your original, you must first select your **Target Size** and automatically create a marquee that is proportioned to that size. See “Selecting the Scan Size” on page 70 for instructions. You can then copy the marquee and place it on each image you will scan at that size.*






- ☐ To enlarge or reduce the preview image in the Normal preview, resize the Preview window. The image size changes corresponding to the Preview window size.
- ☐ To zoom in on an image in the Normal preview, click inside the scan area and click the **Zoom** button.

Note:

- ☐ **Zoom** button changes into **Full** button on Zoom display.

- ❑ **Full** button changes into **Zoom** button on Full display.
- ❑ To rotate an image, click the  left or  right rotate icon.
- ❑ To adjust the image quality, click the scan area(s) you want to modify and make the adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.

If you are viewing the thumbnail preview, you can do the following to adjust the image(s).

- ❑ To zoom in on an image in the Thumbnail preview, double-click the thumbnail to zoom in.
- ❑ You can change the size of thumbnail by using either the  Thumbnail <Large>,  Thumbnail <Small>, or  Full size of 1 frame buttons.
- ❑ To rotate an image or flip it horizontally (like a mirror image), click its thumbnail and then click the  rotation icon or  mirroring icon.

Note:

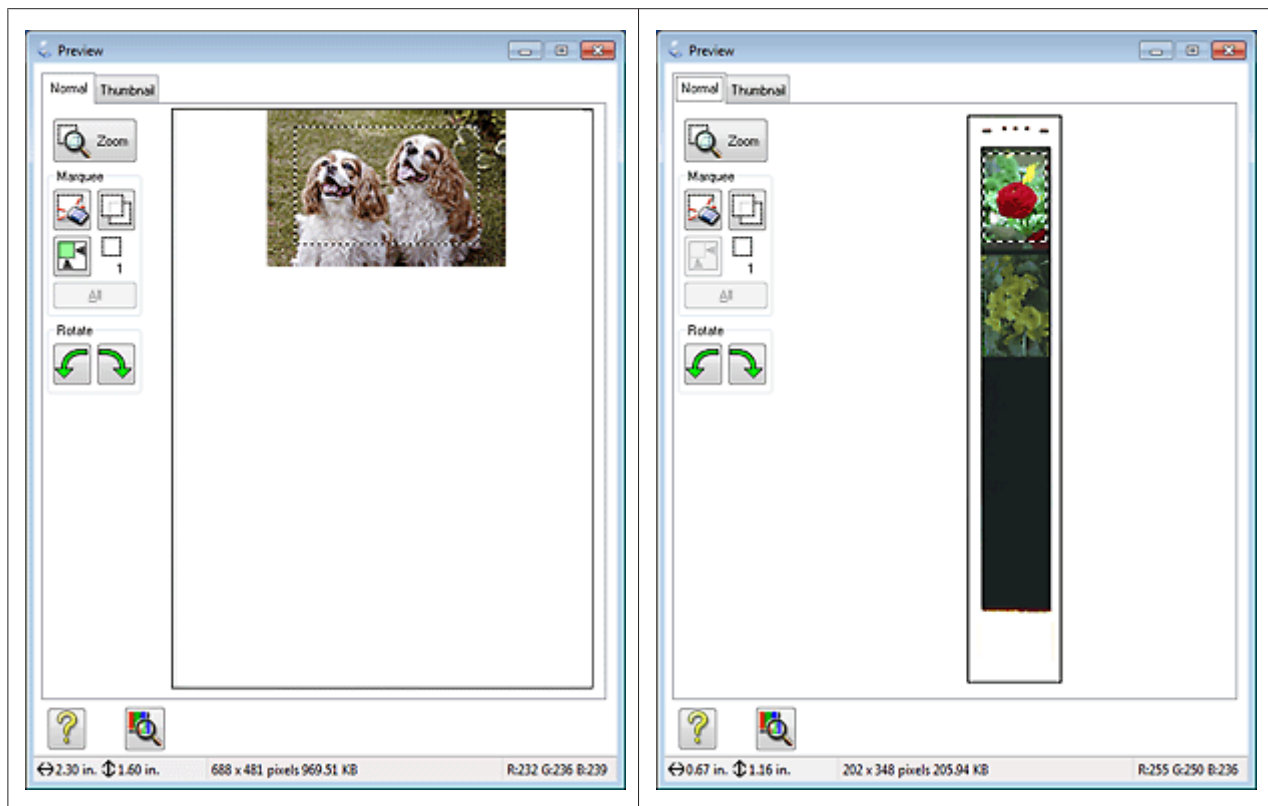
If your image is not rotated correctly, see “Images are Rotated Incorrectly” on page 145.

- ❑ To adjust the scan area to crop your image differently, you can create and move a marquee that marks the edges of your scan. See “Creating a Marquee on a Preview Image” on page 58 for instructions.
- ❑ To adjust the image quality, click the image(s) or scan area(s) you want to modify and make the adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for instructions. If you want to apply the adjustments you have made to all of your images, click **All**.

Creating a Marquee on a Preview Image


A marquee is a moving dotted line that appears on the edges of your preview image to indicate the scan area.

Documents or photos	Film or Slides
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You can move the marquee and adjust its size. If you are viewing the normal preview, you can create multiple marquees (up to 50) on each image to scan different image areas in separate scan files.

Note for film or slides:

When you use the Thumbnail preview, Epson Scan automatically creates marquees around your image(s) for you. If you need to adjust a marquee, click inside it and click the  delete marquee icon before completing the steps in this section. If you do not need to adjust any marquees, skip to “Adjusting the Color and Other Image Settings” on page 61.

1. To draw a marquee, move your cursor over a preview image. The pointer becomes a set of cross-hairs.

Note:

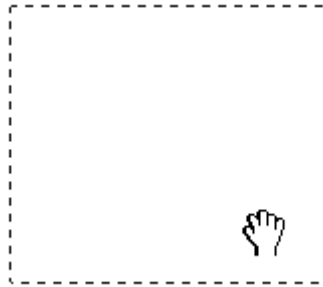
If you are viewing the normal preview and you only have one photo on the document table, you can click the  auto locate icon to automatically draw a marquee, then skip to step 3.

2. Position the pointer in the area where you want to place the corner of your marquee and click. Hold down the mouse button and drag the cross-hairs over the image to the opposite corner of the desired scan area. Then release the mouse button. You see the moving dotted line of the marquee.

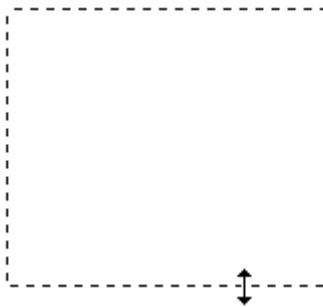


3. Do one of the following to adjust the marquee.



- ☐ To move the marquee, position your cursor inside the marquee. The pointer becomes a hand. Click and drag the marquee to the desired location.



- ☐ To resize the marquee, position your cursor over the edge or corner of the marquee. The pointer becomes a straight or angled double-arrow. Click and drag the edge or corner to the desired size.



Note:

- ☐ To restrict the movement of the marquee to vertical or horizontal only, hold down the **Shift** key as you move the marquee.
 - ☐ To restrict the size of the marquee to the current proportions, hold down the **Shift** key as you resize the marquee.
 - ☐ For best results and image exposure, make sure all sides of the marquee are located inside the preview image. Do not include any of the area around the preview image in the marquee.
4. If you are viewing the normal preview, you can create multiple marquees (up to 50). Just draw them as described in steps 1 through 3, or click the  copy marquee icon to create additional marquees of the same size. You can move and resize all the marquees as described in step 3. To delete a marquee, click inside it and click the  delete marquee icon.

Note:

*If you draw multiple marquees, make sure you click **All** in the Preview window before you scan. Otherwise, only the area inside the last marquee you drew will be scanned.*

Adjusting the Color and Other Image Settings

Once you have previewed your image(s) and adjusted the scan area, you can modify the image quality, if necessary. Epson Scan offers a variety of settings for improving color, sharpness, contrast, and other aspects affecting image quality. Before you make adjustments, be sure to click the image or marquee for the area you want to adjust.

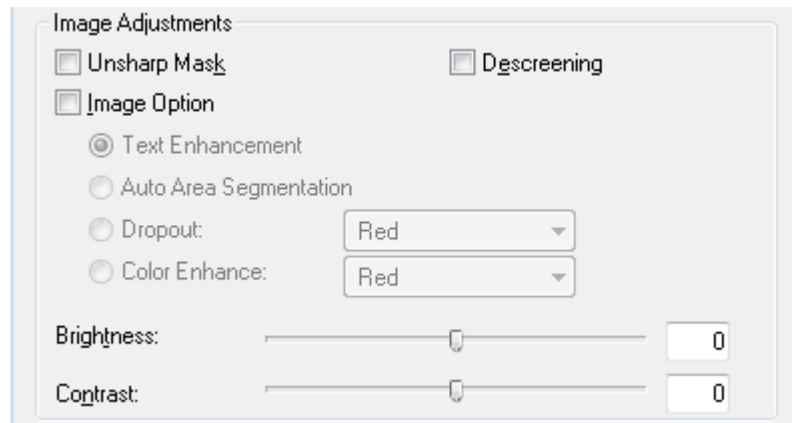
To adjust the color and other image settings, see one of these sections.

Office Mode: “Making Color Adjustments and Other Image Settings in Office Mode” on page 62

Home Mode: “Making Color Adjustments and Other Image Settings in Home Mode” on page 64

Professional Mode: “Making Color Adjustments and Other Image Settings in Professional Mode” on page 67

Making Color Adjustments and Other Image Settings in Office Mode



The table below describes the settings available in Office Mode. For details on adjusting these settings, see Epson Scan Help.

Note:


*If you are scanning multiple images at the same time and you want to apply the image adjustments to all of your images or scan areas, click **All** in the Preview window before you begin making your adjustments.*

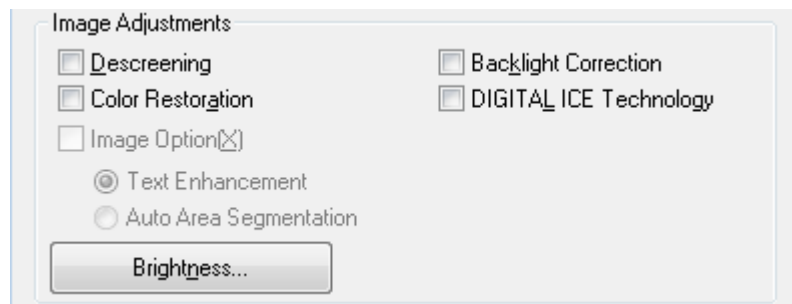
Setting	Description
Unsharp Mask	Turn on to make the edges of image areas clearer for an overall sharper image. Turn off to leave softer edges. This setting is available only when the Image Type is set to Color or Grayscale.
Descreening	Removes the rippled pattern that can appear in subtly-shaded image areas, such as in skin tones. Also improves results when scanning magazine or newspaper images which include screening in their original print processes. This setting is available only when the Image Type is set to Color or Grayscale. The results of descreening do not appear in the preview, only in your scanned image.

Image Option	Text Enhancement	<p>Enhances text recognition when scanning text documents. This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Color and Image Option is selected - when the Image Type is set to Grayscale and Image Option is selected - when the Image Type is set to Black&White and Image Option is selected <p>When the Image Type is set to Black&White, the results of Text Enhancement do not appear in the preview, only in your scanned image.</p>
	Auto Area Segmentation	Makes Black&White images clearer and text recognition more accurate by separating the text from the graphics. This setting is available only when the Image Type is set to Black&White and Image Option is selected.
	Dropout	<p>Drops out red, green, or blue in the scan. This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Grayscale and Image Option is selected - when the Image Type is set to Black&White and Image Option is selected
	Color Enhance	<p>Enhances red, green, or blue in the scan. This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Grayscale and Image Option is selected - when the Image Type is set to Black&White and Image Option is selected
Brightness		<p>Adjusts the overall image lightness and darkness. This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Color - when the Image Type is set to Grayscale - when the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected
Contrast		<p>Adjusts the difference between the light and dark areas of the overall image. This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Color - when the Image Type is set to Grayscale - when the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected

Threshold	Adjusts the level at which the black areas in text and line art are delineated, improving text recognition in OCR programs. This setting is available in the following conditions: - when the Image Type is set to Black&White, and Image Option is not selected - when the Image Type is set to Black&White, and Image Option and Color Enhance are selected
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Note:

- ❑ To view the red, green, and blue levels at particular points in your preview image as you make adjustments, click the  densitometer icon in the Preview window and move your cursor over an image area. See *Epson Scan Help* for details.
- ❑ Certain settings may not be available, or may be automatically selected, depending on the type of image you are previewing and other settings you have selected.
- ❑ You can customize how certain Epson Scan settings behave by clicking **Configuration** and changing settings in the window that appears. See *Epson Scan Help* for details.
- ❑ To undo any image quality adjustments you make to the preview image, click **Reset** if available, turn off the settings, or preview your image again.

Making Color Adjustments and Other Image Settings in Home Mode

The table below describes the settings available in Home Mode. For details on adjusting these settings, see *Epson Scan Help*.

Note:

If you are scanning multiple images at the same time and you want to apply the image adjustments to all of your images or scan areas, click **All** in the Preview window before you begin making your adjustments.


Setting	Description
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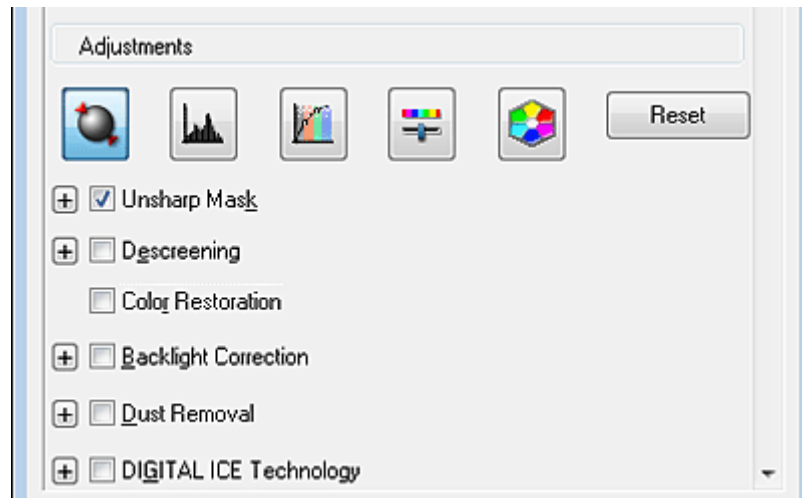
Descreening	<p>Removes the rippled pattern that can appear in subtly-shaded image areas, such as in skin tones. Also improves results when scanning magazine or newspaper images which include screening in their original print processes.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Color - when the Image Type is set to Grayscale <p>The results of descreening do not appear in the preview, only in your scanned image.</p>
Backlight Correction	<p>Removes shadows from photos that have too much background light.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Photograph as the Document Type setting and Image Type is set to Color - when you select Photograph as the Document Type setting and Image Type is set to Grayscale
Color Restoration	<p>Restores the colors in faded photos automatically.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Photograph as the Document Type setting, and Image Type is set to Color - when you select Photograph as the Document Type setting, and Image Type is set to Grayscale
DIGITAL ICE Technology	<p>Remove dust marks that the Dust Removal feature cannot. DIGITAL ICE Technology takes longer to scan and also uses more of your system resources.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Photograph as the Document Type and Image Type is set to Color or Grayscale with the Show Texture check box in the Configuration window cleared - when you select Positive Film as the Document Type and Image Type is set to Color or Grayscale - when you select Color Negative Film as the Document Type and Image Type is set to Color or Grayscale - when you select B&W Negative Film as the Document Type and Image Type is set to Color or Grayscale

Image Option	Text Enhancement	<p>Enhances text recognition when scanning text documents.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Magazine as the Document Type setting and Image Option is selected - when you select Newspaper as the Document Type setting and Image Option is selected - when you select Text/Line Art as the Document Type setting and Image Option is selected
	Auto Area Segmentation	<p>Makes Black&White images clearer and text recognition more accurate by separating the text from the graphics.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Magazine as the Document Type, the Image Type is set to Black&White, and Image Option is selected - when you select Newspaper as the Document Type, the Image Type is set to Black&White, and Image Option is selected - when you select Text/Line Art as the Document Type, the Image Type is set to Black&White, and Image Option is selected
Brightness		<p>Adjusts the overall image lightness and darkness.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Color - when the Image Type is set to Grayscale - when you select Magazine as the Document Type setting, the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected - when you select Newspaper as the Document Type setting, the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected - when you select Text/Line Art as the Document Type setting, the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected <p>Click Brightness to access the Brightness setting.</p>
Contrast		<p>Adjusts the difference between the light and dark areas of the overall image.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to Color - when the Image Type is set to Grayscale - when you select Magazine as the Document Type setting, the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected - when you select Newspaper as the Document Type setting, the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected - when you select Text/Line Art as the Document Type setting, the Image Type is set to Black&White, and Image Option and Auto Area Segmentation are selected <p>Click Brightness to access the Contrast setting.</p>

Threshold	<p>Adjusts the level at which the black areas in text and line art are delineated, improving text recognition in OCR programs.</p> <p>Available only when the Image Type is set to Black&White, and Image Option is not selected.</p> <p>Click Brightness to access the Threshold setting.</p>
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Note:

- ❑ To view the red, green, and blue levels at particular points in your preview image as you make adjustments, click the  densitometer icon in the Preview window and move your cursor over an image area. See *Epson Scan Help* for details.
- ❑ Certain settings may not be available, or may be automatically selected, depending on the type of image you are previewing and other settings you have selected.
- ❑ You can customize how certain Epson Scan settings behave by clicking **Configuration** and changing settings in the window that appears. See *Epson Scan Help* for details.
- ❑ To undo any image quality adjustments you make to the preview image, click **Reset** if available, turn off the settings, or preview your image again.









Making Color Adjustments and Other Image Settings in Professional Mode

The table below describes the settings available in Professional Mode. For details on adjusting these settings, see *Epson Scan Help*.

Note:

- ❑ You may need to scroll down to view the Adjustments area of the Professional Mode window.


- ❑ *If you are scanning multiple images at the same time and you want to apply the image adjustments to all of your images or scan areas, click **All** in the Preview window before you begin making your adjustments.*

Setting	Description
Auto Exposure	Click the  Auto Exposure icon. To turn it on continuously, click Configuration , click the Color tab and select Continuous auto exposure . You can adjust the level of exposure adjustment using the slider.
Histogram	Provides a graphical interface for adjusting highlight, shadow, and gamma levels individually. For advanced users only. Click the  Histogram Adjustment icon to access the Histogram setting.
Tone Correction	Provides a graphical interface for adjusting tone levels individually. For advanced users only. Click the  Tone Correction icon to access the Tone Correction setting.
Brightness	Adjusts the overall image lightness and darkness. Click the  Image Adjustment icon to access the Brightness setting.
Contrast	Adjusts the difference between the light and dark areas of the overall image. Click the  Image Adjustment icon to access the Contrast setting.
Saturation	Adjusts the density of colors in the overall image. Click the  Image Adjustment icon to access the Saturation setting.
Color Balance	Adjusts the balance of red, green, and blue colors in the overall image. Click the  Image Adjustment icon to access the Color Balance settings.
Color Palette	Provides a graphical interface for adjusting mid-tone levels, such as skin tones, without affecting the highlight and shadow areas of the image. For advanced users only. See "Using the Color Palette Feature (for Professional Mode Only)" on page 80 for more information. Click the  Color Palette icon to use the Color Palette settings.
Unsharp Mask	Turn on to make the edges of image areas clearer for an overall sharper image. The level of sharpness is adjustable. Turn off to leave softer edges. This setting is available in the following conditions: <ul style="list-style-type: none"> - when the Image Type is set to 48-bit Color - when the Image Type is set to 24-bit Color - when the Image Type is set to 16-bit Grayscale - when the Image Type is set to 8-bit Grayscale

Descreening	<p>Removes the rippled pattern that can appear in subtly shaded image areas, such as skin tones. Also improves results when scanning magazine or newspaper images that include screening in their original print processes. The results of descreening do not appear in the preview, only in your scanned image. The level of descreening is adjustable.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when the Image Type is set to 48-bit Color - when the Image Type is set to 24-bit Color - when the Image Type is set to Color Smoothing - when the Image Type is set to 16-bit Grayscale - when the Image Type is set to 8-bit Grayscale
Color Restoration	<p>Restores the colors in faded photos automatically.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 48-bit Color - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 24-bit Color - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 16-bit Grayscale - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 8-bit Grayscale
Backlight Correction	<p>Removes shadows from photos that have too much background light. The level of backlight correction is adjustable.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 48-bit Color - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 24-bit Color - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 16-bit Grayscale - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 8-bit Grayscale
Dust Removal	<p>Removes dust marks from your originals automatically. The results of Dust Removal do not appear in the preview, only in your scanned image. The level of dust removal is adjustable.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 48-bit Color - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 24-bit Color - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 16-bit Grayscale - when you select Photo as the Auto Exposure Type setting and the Image Type is set to 8-bit Grayscale

Digital ICE Technology	<p>Remove dust marks that the Dust Removal feature cannot. DIGITAL ICE Technology takes longer to scan and also uses more of your system resources.</p> <p>This setting is available in the following conditions:</p> <ul style="list-style-type: none"> - when you select Reflective as the Document Type and Auto Exposure Type is set to Photo with the Show Texture check box in the Configuration window cleared - when you select Film as the Document Type
Threshold	<p>Adjusts the level at which the black areas in text and line art are delineated, improving text recognition in OCR programs. Available only when you select Black & White as the Image Type setting.</p>

Note:

- ❑ To view red, green, and blue levels at particular points in your preview image as you make adjustments, click the  densitometer icon in the Preview window and move your cursor over an image area. See *Epson Scan Help* for details.
- ❑ Certain settings may not be available, or may be automatically selected, depending on the type of image you are previewing and other settings you have selected.
- ❑ You can customize how certain Epson Scan settings behave by clicking **Configuration** and changing settings in the window that appears. See *Epson Scan Help* for details.
- ❑ To undo any image quality adjustments you make to the preview image, click **Reset** if available, turn off the setting, or preview your image again.

Selecting the Scan Size

You can scan your images at their original size, or you can reduce or enlarge their size as you scan them. You do this using the **Target Size** setting.

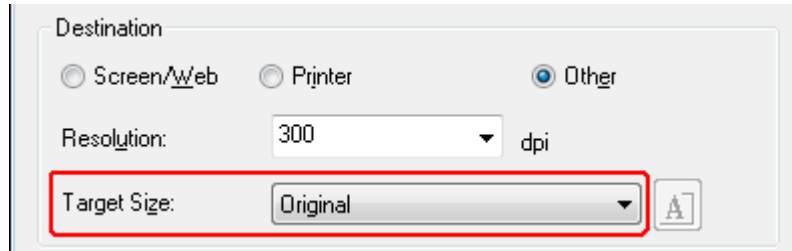
If you are going to scan your image to a specific size, you should select the **Target Size** setting after previewing it, but before adjusting your scan area indicated by creating a marquee. This sets the scan area to correct proportions so your image will not be cropped unexpectedly.

To select the scan size, see one of these sections.

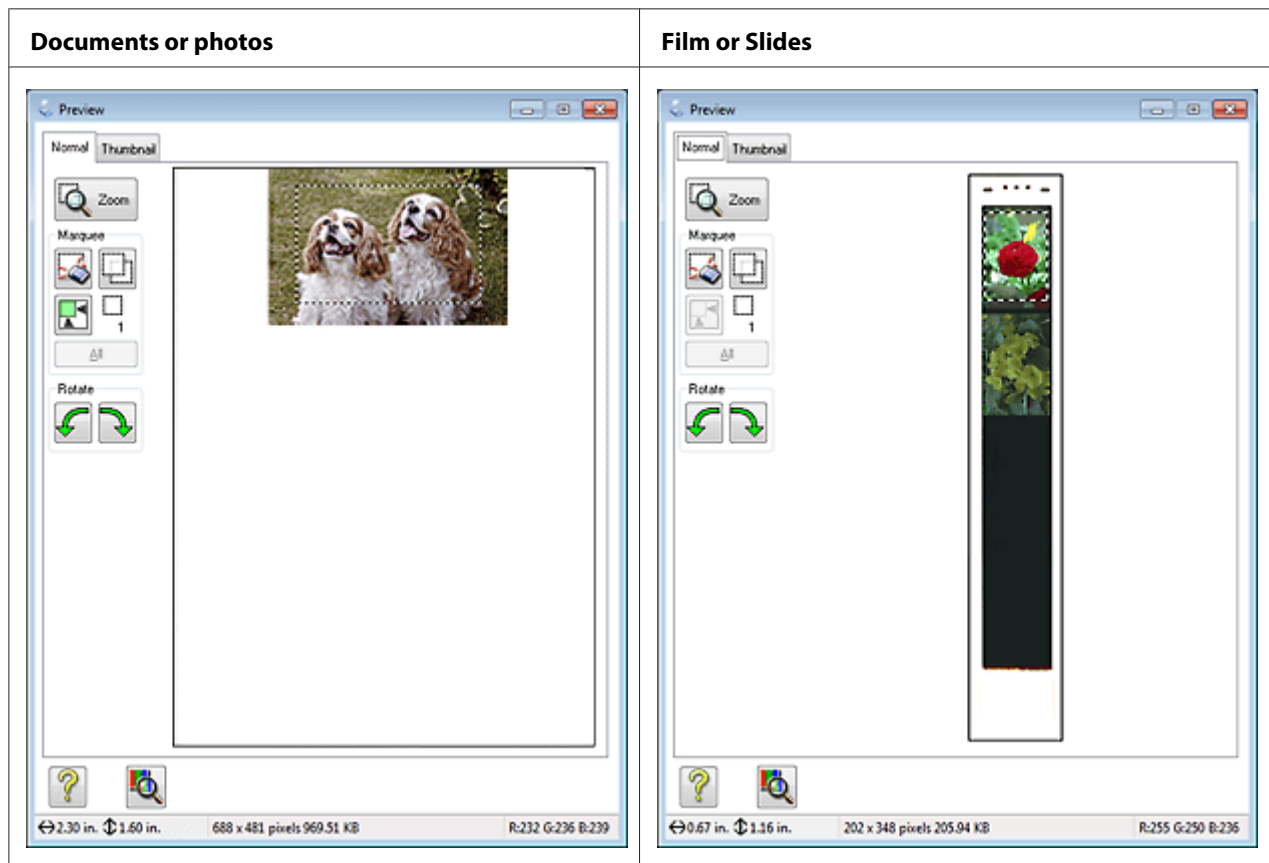
Home Mode: “Selecting the Scan Size in Home Mode” on page 71

Professional Mode: “Selecting the Scan Size in Professional Mode” on page 73

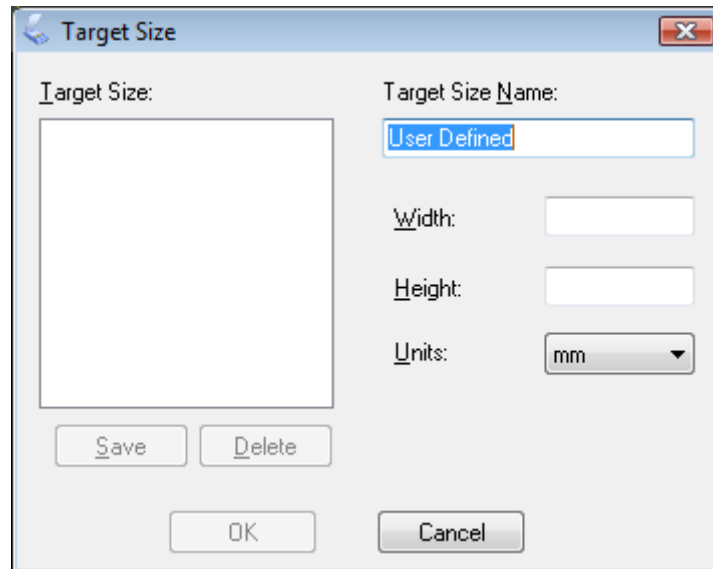
Selecting the Scan Size in Home Mode




1. You can select a predefined scan size from the **Target Size** list. Click the arrow to open the list and select the size you want. A marquee (dotted line) proportioned for that size appears on your preview image.




2. If you need to create a scan size that is not in the Target Size list, you can create a custom size. Click the arrow to open the list and select **Customize**. You see the Target Size window.



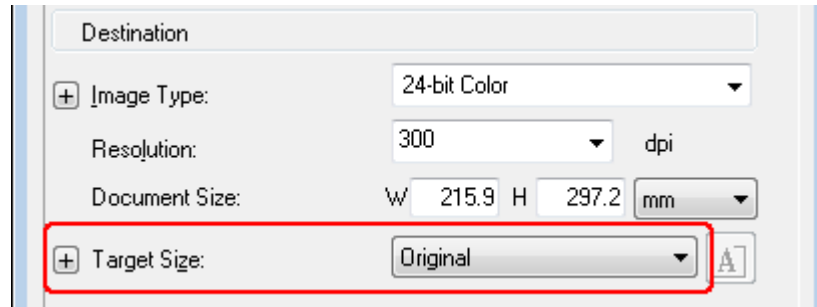
3. Type a name for your custom size, enter the size, click **Save**, then click **OK**. Your new size appears in the Target Size list.
4. Once you have selected your scan size, you can click and drag the marquee to the area in the image you want to scan. For details, see “Creating a Marquee on a Preview Image” on page 58. The marquee proportions are retained as you adjust it.

If you need to rotate the marquee for a landscape or portrait image without changing its aspect ratio, click the  orientation icon.

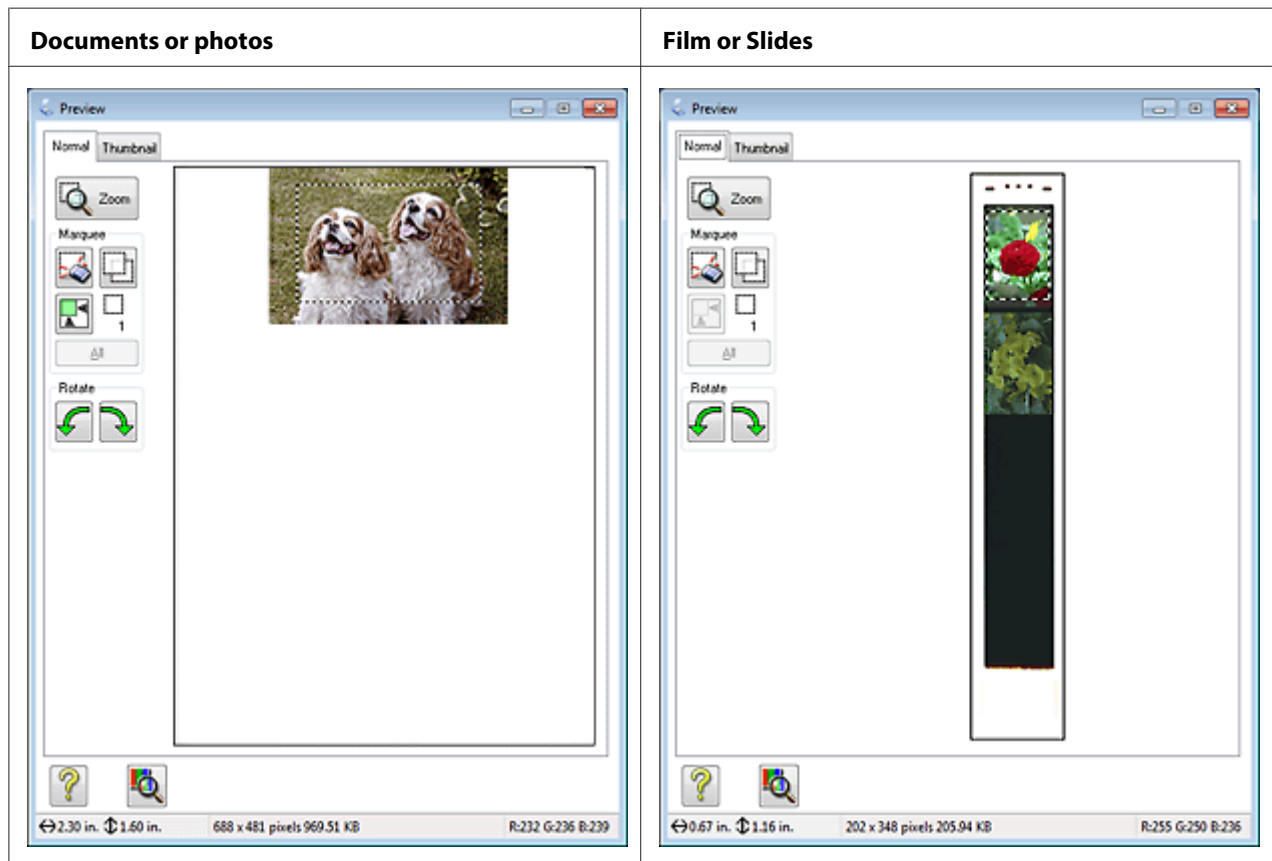
Note:

The  orientation icon is not available if you selected **Original** as the Target Size setting.

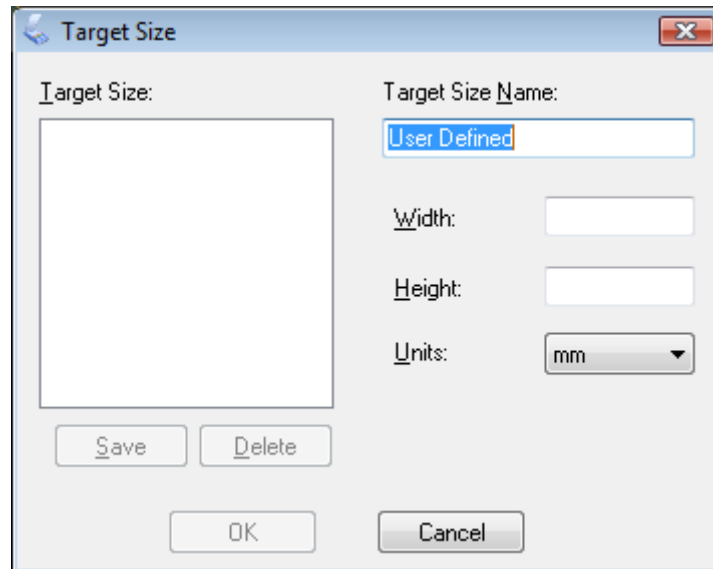
Selecting the Scan Size in Professional Mode



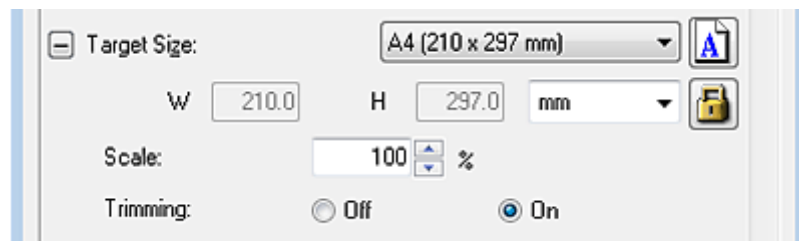
1. You can select a predefined scan size from the Target Size list. Click the arrow to open the list and select the size you want. A marquee (dotted line) proportioned for that size appears on your preview image.




2. If you need to create a scan size that is not in the Target Size list, you can create a custom size. Click the arrow to open the list and select **Customize**. You see the Target Size window.




3. Type a name for your custom size, enter the size, click **Save**, then click **OK**. Your new size appears in the Target Size list.
4. You can fine-tune the size using additional tools. Click the + (Windows) or ► (Mac OS X) button next to **Target Size** to display these tools.




- ☐ To size your image by a certain percentage, adjust the **Scale** value.
- ☐ To change the way your image is cropped, turn **Trimming** on or off. See Epson Scan Help for details.
- ☐ To unlock the proportions of your scan size, click the  lock icon. Then adjust the marquee or enter new width/height measurements.

5. Once you have selected your scan size, you can click and drag the marquee to the area in the image you want to scan. For details, see “Creating a Marquee on a Preview Image” on page 58. The marquee proportions are retained as you adjust it.

If you want to rotate the marquee for a landscape or portrait image without changing its aspect ratio, click the  orientation icon.

Note:

The  orientation icon is not available if you selected **Original** as the Target Size setting.


Finishing the Scan

What happens after you scan depends on how you started your scan.

Full Auto Mode:

- ☐ If you started your scan by running Epson Scan from the EPSON Scan icon, your scanned image is saved in the file format and location you selected in the File Save Settings window. If you did not select any settings in the File Save Settings window, it is saved as a JPEG file in Pictures or My Pictures.
- ☐ If you started your scan from a TWAIN-compliant program, your scanned image opens in the program window. If Epson Scan does not automatically close after scanning, click **Close** to exit the Epson Scan window and view your image in the program window.

Office Mode, Home Mode, or Professional Mode:



- ☐ If you started your scan by running Epson Scan from the EPSON Scan icon or by pressing the  Start button on the scanner, you see the File Save Settings window. This lets you select the name and location of your saved scan files. See “Selecting File Save Settings” on page 48 for details. After you select these settings, Epson Scan starts scanning.
- ☐ If you started your scan from a TWAIN-compliant program, your scanned image(s) opens in the program window. If Epson Scan does not automatically close after scanning, click **Close** to exit the Epson Scan window and view your image(s) in the program.

Chapter 5

Scanning Special Projects

Restoring Color

Using the **Color Restoration** feature in Epson Scan, you can transform old, faded, or badly exposed photos into ones with true-to-life color and sharpness. You can restore printed photos, film, or slides automatically as you scan them.

Original image	Color Restoration applied
	

See one of these sections for instructions on restoring colors.

Full Auto Mode: “Color Restoration in Full Auto Mode” on page 76

Office Mode: This feature is not available in Office Mode. Change the scan mode to Home Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Home Mode: “Color Restoration in Home Mode” on page 78

Professional Mode: “Color Restoration in Professional Mode” on page 79

Color Restoration in Full Auto Mode

1. Place your original(s) on the document table. See one of these sections for instructions.

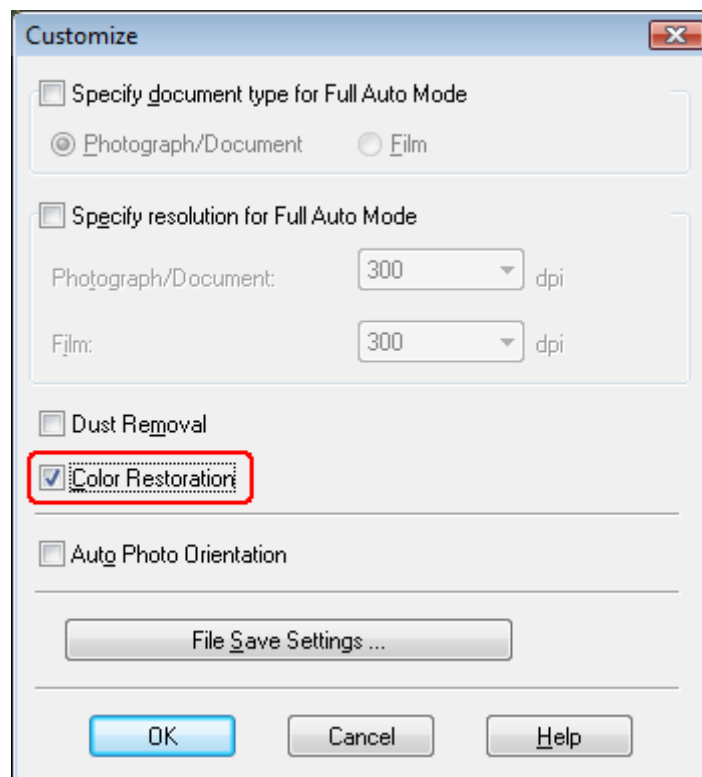
Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

Note for film or slides:

You can scan only 35 mm color film strip or color positive slides in Full Auto Mode. To scan other types of film, use Home Mode or Professional Mode. To change the scan mode, see “Changing the Scan Mode” on page 36.

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Full Auto Mode window, click **Customize**. The Customize window appears.
4. Click the **Color Restoration** check box.



5. If you want to select the file save settings, click **File Save Settings**. See “Selecting File Save Settings” on page 48 for instructions.

Note:

If you started Epson Scan from a TWAIN-compliant program, the File Save Settings button does not appear.

6. When you finish making all the necessary settings, click **OK** to return to the Full Auto Mode window.

7. Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

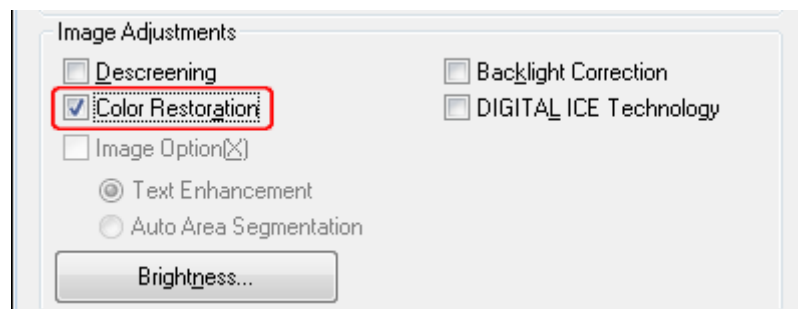
Color Restoration in Home Mode

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Home Mode window, select the **Document Type**, **Image Type**, and **Destination** settings. For details, see “Scanning in Home Mode” on page 44.
4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Click the **Color Restoration** check box.



Note:

*If you are scanning multiple images at the same time and you want to apply the Color Restoration feature to all of your images or scan areas, click **All** in the Preview window before you click the check box.*

6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
7. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for details.

8. Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

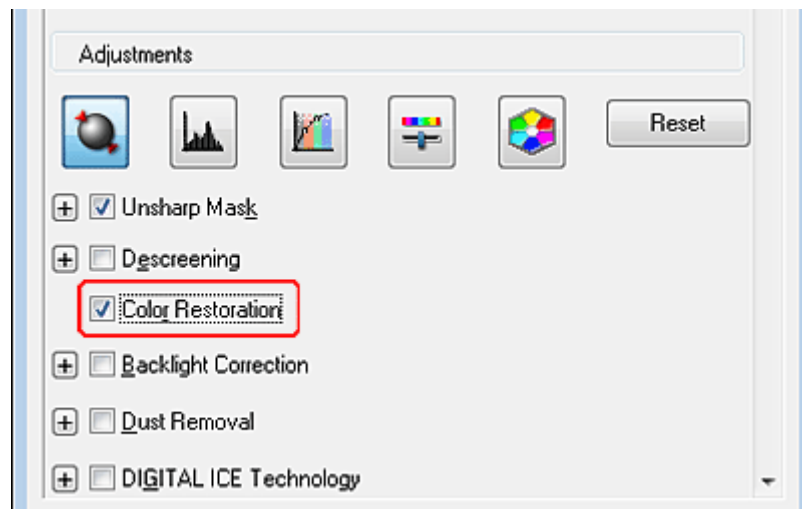
Color Restoration in Professional Mode

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19


Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Professional Mode window, select the **Document Type**, **Document Source**, **Auto Exposure Type** (for scanning documents or photos) or **Film Type** (for scanning film or slides), **Image Type**, and **Resolution** settings. For details, see “Scanning in Professional Mode” on page 46.
4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Scroll down to the Adjustments area and click the **Color Restoration** check box.



Note:

*If you are scanning multiple images at the same time and you want to apply the Color Restoration feature to all of your images or scan areas, click **All** in the Preview window before you click the check box.*

6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
7. If you want to make more precise color adjustments, click the  Color Palette icon. See “Using the Color Palette Feature (for Professional Mode Only)” on page 80 for instructions.
8. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for details.
9. Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

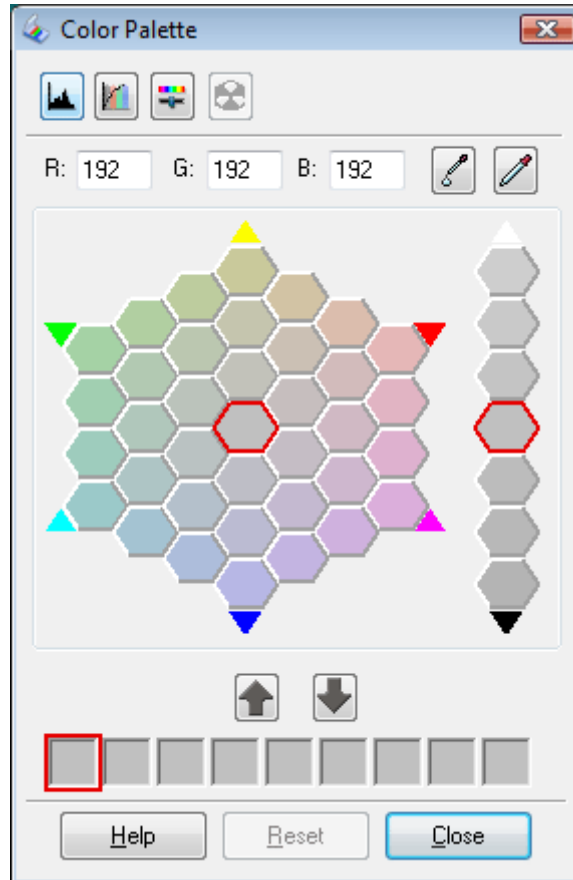
Using the Color Palette Feature (for Professional Mode Only)


Follow the steps in these sections to fine-tune the colors in your image using the Color Palette feature in Professional Mode.

This feature is available only after previewing your images, so make sure to click **Preview** to activate this feature.

Sampling a Color from an Image

1. Click the  Color Palette icon.



2. Click the  color extractor icon. Your cursor changes to an eye dropper.
3. In the Preview window, click on the color in your image that needs adjustment.


The color you selected is moved to the center cell in the Color Palette window with variations in hue in the surrounding cells.

4. Select the cell that contains the hue you would like to use to adjust the color in your image. This color now becomes the color of the center cell and the color change is reflected in your image.


Note:

You can also use the cells to the right of the adjustment area to change the brightness, if necessary.

5. If you want to continue adjusting the color, repeat step 4.

If you want to save the color for future scans, click the  save icon. The color appears in the save area.

Note:

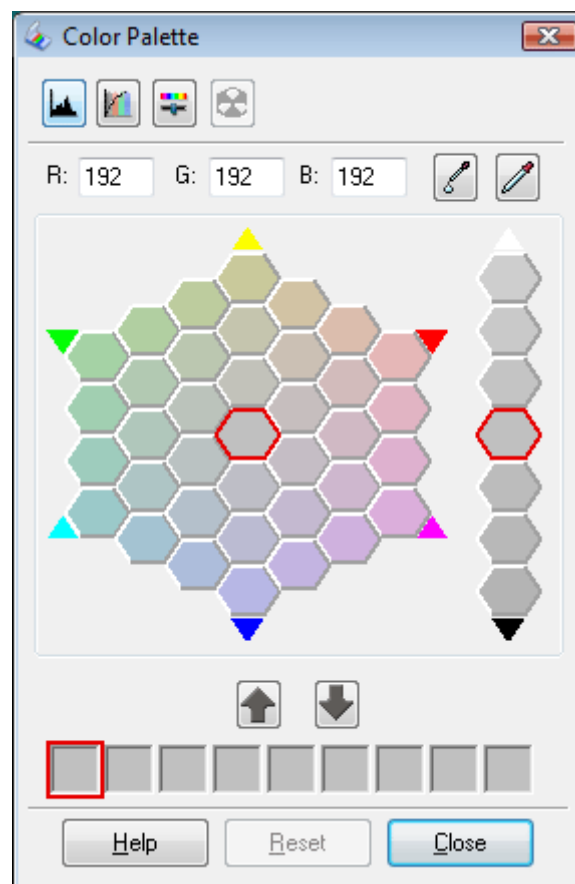
To load a previously saved color, select the color and click the  apply to palette icon.

- When you are finished adjusting the color, click **Close** to return to the Professional Mode window.

For further details on using the Color Palette feature, see Epson Scan Help.

Applying a Color to an Image


- Click the  Color Palette icon.




- Select the cell that contains the hue you would like to use to adjust the color in your image. This color now becomes the color of the center cell.


Note:

You can also use the cells to the right of the adjustment area to change the brightness, if necessary.

3. Click the  color applicator icon. Your cursor changes to a droplet.
4. In the Preview window, click on the color in your image that needs adjustment. The color change is reflected in your image.
5. If you want to continue adjusting the color, repeat steps 2 through 4.

If you want to save the color for future scans, click the  save icon. The color appears in the save area.

Note:

To load a previously saved color, select the color and click the  apply to palette icon.



6. When you are finished adjusting the color, click **Close** to return to the Professional Mode window.

For further details on using the Color Palette feature, see Epson Scan Help.

Removing Dust Marks with the Dust Removal Feature

Using the **Dust Removal** feature in Epson Scan, you can virtually “clean” the dust marks from your originals as you scan them.

Before scanning your originals, carefully remove any dust that you can see on them.

Original image	Dust Removal applied
	

Note:

- ❑ Before scanning your originals, carefully remove any dust that you can see on them.

- ❑ *Do not use Dust Removal to scan your originals that do not contain dust or scratch marks; otherwise your scanned image may be distorted or blurred.*
- ❑ *When you scan film or slides, the Dust Removal feature is available for Full Auto Mode or Professional Mode only (it is not available for Home Mode). To remove dust marks from color film or slides in Home Mode, use the DIGITAL ICE Technology feature as described in “Removing Dust and Scratch Marks from Originals Using DIGITAL ICE Technology” on page 87.*
- ❑ *If you still have dust marks on color film or slides after using the Dust Removal feature, try scanning it again using DIGITAL ICE Technology as described in “Removing Dust and Scratch Marks from Originals Using DIGITAL ICE Technology” on page 87.*
- ❑ *This feature is not available if **DIGITAL ICE Technology** check box is selected.*

See one of these sections for instructions on removing dust marks from your original(s).

Full Auto Mode: “Dust Removal in Full Auto Mode” on page 84

Office Mode: This feature is not available in Office Mode. Change the scan mode to Full Auto Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Home Mode: This feature is not available in Home Mode. Change the scan mode to Full Auto Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Professional Mode: “Dust Removal in Professional Mode” on page 86

Dust Removal in Full Auto Mode

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

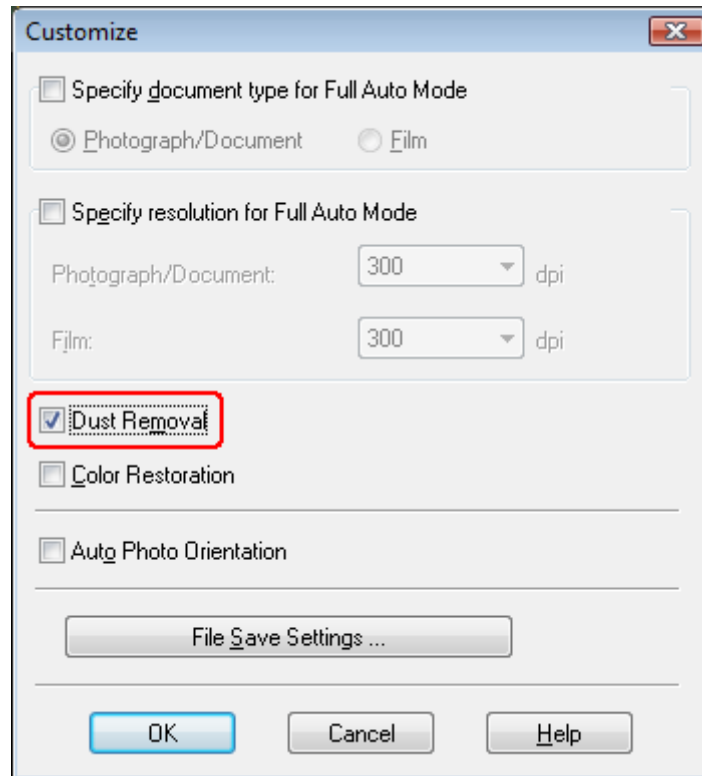
Film or slides: “Placing Film or Slides” on page 22

Note for film or slides:

You can only scan 35 mm color film strip or color positive slides in Full Auto Mode. To scan other types of film, use Home Mode or Professional Mode. To change the scan mode, see “Changing the Scan Mode” on page 36.

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Full Auto Mode window, click **Customize**. The Customize window appears.

- Click the **Dust Removal** check box.



- If you want to select the file save settings, click **File Save Settings**. See “Selecting File Save Settings” on page 48 for instructions.

Note:

If you started Epson Scan from a TWAIN-compliant program, the File Save Settings button does not appear.

- When you finish making all the necessary settings, click **OK** to return to the Full Auto Mode window.
- Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

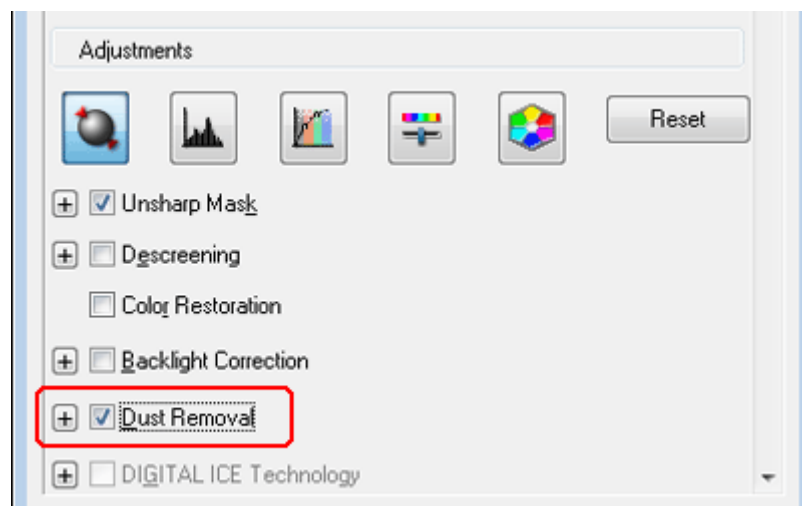
Dust Removal in Professional Mode

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Professional Mode window, select the **Document Type**, **Document Source**, **Auto Exposure Type** (for scanning documents or photos) or **Film Type** (for scanning film or slides), **Image Type**, and **Resolution** settings. For details, see “Scanning in Professional Mode” on page 46.
4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Scroll down to the Adjustments area and click the **Dust Removal** check box. If you want to increase or decrease the level of the dust removal effect, click the **+** (Windows) or **►** (Mac OS X) button next to the option and select a setting in the **Level** list.



Note:

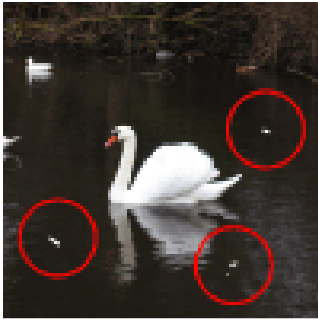
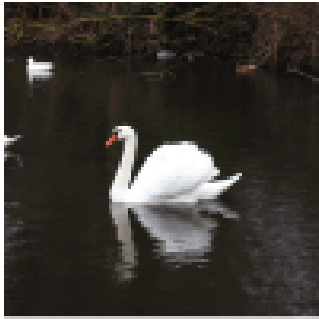
- ❑ The result of the Dust Removal does not appear in the image(s) in the Preview window.

- ❑ *If you are scanning multiple images at the same time and you want to apply the Dust Removal feature to all of your images or scan areas, click **All** in the Preview window before you click the check box.*
 - ❑ *This feature is not available if **DIGITAL ICE Technology** check box is selected.*
6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
 7. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for instructions.
 8. Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

Removing Dust and Scratch Marks from Originals Using DIGITAL ICE Technology

Your scanner and its Epson Scan software are equipped with the **DIGITAL ICE Technology** feature that removes stubborn dust or scratch marks from your originals.

Original image	DIGITAL ICE Technology applied
	

DIGITAL ICE Technology can remove dust marks that the Dust Removal feature cannot. However, it takes longer to scan using DIGITAL ICE Technology and also uses more of your system resources. It is best to try removing dust marks using Dust Removal before using DIGITAL ICE Technology. See “Removing Dust Marks with the Dust Removal Feature” on page 83 for details.

Note:

- ☐ You cannot use Dust Removal and DIGITAL ICE Technology at the same time.
- ☐ Do not use DIGITAL ICE Technology to scan originals that do not contain dust or scratch marks; otherwise your scanned image(s) may be distorted or blurred.
- ☐ Images scanned with DIGITAL ICE Technology may appear softer than your original images.
- ☐ This feature is not available if the **Show Texture** check box in the Configuration dialog box is selected.

Before using DIGITAL ICE Technology, make sure your system meets the requirements in “DIGITAL ICE Technology Specifications” on page 88.

DIGITAL ICE Technology Specifications

To use DIGITAL ICE Technology, your system memory and hard disk space must meet the requirements in the table below. DIGITAL ICE Technology needs additional resources to process and store your scanned images at the sizes and resolutions specified here.

Original type	Resolution *	Hard disk space	System memory
4 × 6-inch (10.2 × 15.2 cm) photograph	600 dpi	157 MB	185 MB
	4800 dpi	626 MB	370 MB
A4 size photograph	600 dpi	631 MB	255 MB
	4800 dpi	2524 MB	510 MB
35 mm film or slide	150 dpi	1 MB	8 MB
	300 dpi	1 MB	15 MB
	600 dpi	4 MB	30 MB
	1200 dpi	16 MB	59 MB
	2400 dpi	63 MB	117 MB
	3600 dpi	142 MB	175 MB
	12800 dpi	251 MB	233 MB

Medium format film (6 × 20 cm)	150 dpi	4 MB	34 MB
	300 dpi	8 MB	70 MB
	600 dpi	29 MB	139 MB
	1200 dpi	116 MB	277 MB
	2400 dpi	464 MB	553 MB
	3600 dpi	1042 MB	830 MB
	12800 dpi	1853 MB	1106 MB

* This is the actual scan resolution used by DIGITAL ICE Technology, which is higher than the scan resolution you specify in Epson Scan. Make sure your system resources meet these increased requirements.

You can use DIGITAL ICE Technology on the following types of originals.

Original type	DIGITAL ICE Technology
Glossy Photo	Yes
Color negative film	Yes
Color positive film or slides	Yes *
Monochrome negative film	No **
Monochrome positive film	No

* Kodachrome film is not supported.

** Only chromogenic monochrome negative film is supported.

Note:

- ☐ It may take much longer to scan and for your software to respond to clicking **Cancel** if you have insufficient system resources.
- ☐ If you place your original on the document table at an angle, DIGITAL ICE Technology may require even more system memory to process your images. Be sure to place your original straight on the document table.

See one of these sections for instructions on using DIGITAL ICE Technology.

Full Auto Mode: This feature is not available in Full Auto Mode. Change the scan mode to Home Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Office Mode: This feature is not available in Office Mode. Change the scan mode to Home Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Home Mode: “Using DIGITAL ICE Technology in Home Mode” on page 90

Professional Mode: “Using DIGITAL ICE Technology in Professional Mode” on page 91

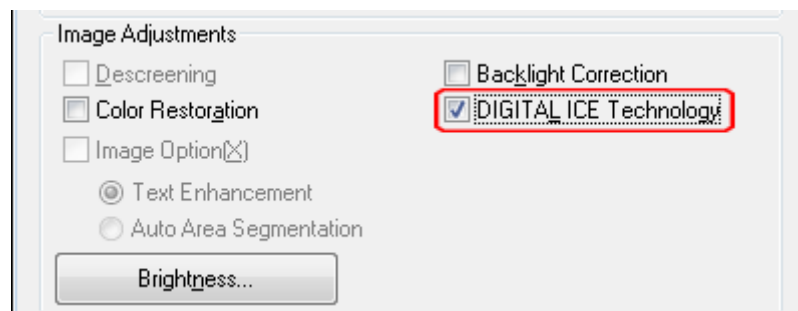
Using DIGITAL ICE Technology in Home Mode

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Home Mode window, select the **Document Type**, **Image Type**, and **Destination** settings. For details, see “Scanning in Home Mode” on page 44.
4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Click the **DIGITAL ICE Technology** check box.



Note:

The results of DIGITAL ICE Technology do not appear in the images in the Preview window, but apply to all of them. You must scan the images to see the effects.

6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
7. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for instructions.

8. Click **Scan** to scan and remove dust and scratch marks in your image(s).

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for details.

Using DIGITAL ICE Technology in Professional Mode

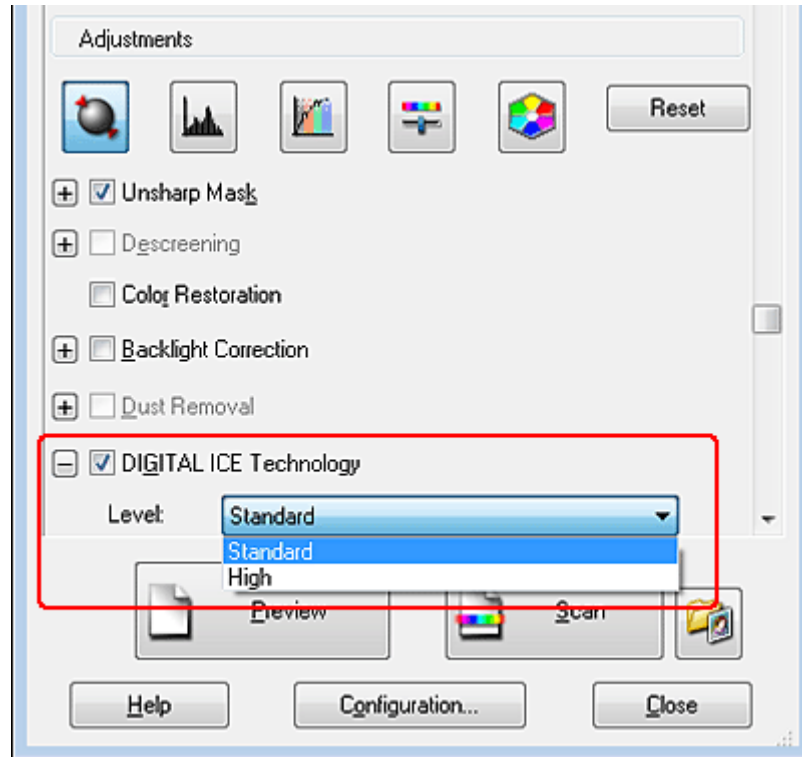
1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Professional Mode window, select the **Document Type**, **Auto Exposure Type** (for scanning documents or photos), **Film Type** (for scanning film or slides), **Image Type**, **Resolution**, and **Document Size** settings. For details, see “Scanning in Professional Mode” on page 46.
4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Scroll down to the Adjustments area and click the **DIGITAL ICE Technology** check box.

When you select **Reflective** as the Document Type, you can change the level of the DIGITAL ICE Technology correction effect. Click the + (Windows) or ► (Mac OS X) button next to the option and select **Standard** or **High**.



Note:



The results of DIGITAL ICE Technology do not appear in the images in the Preview window, but apply to all of them. You must scan the images to see the effects.

6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
7. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for instructions.
8. Click **Scan** to scan and remove dust and scratch marks in your image(s).

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for details.

Fixing Backlit Photos

Using the **Backlight Correction** feature in Epson Scan, you can remove shadows from photos that have too much background light. You can fix printed photos, film, or slides automatically as you scan them.

Original image	Backlight Correction applied
	

See one of these sections for instructions on fixing backlit photos.

Full Auto Mode: This feature is not available in Full Auto Mode. Change the scan mode to Home Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Office Mode: This feature is not available in Office Mode. Change the scan mode to Home Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.

Home Mode: “Backlight Correction in Home Mode” on page 93

Professional Mode: “Backlight Correction in Professional Mode” on page 94

Backlight Correction in Home Mode

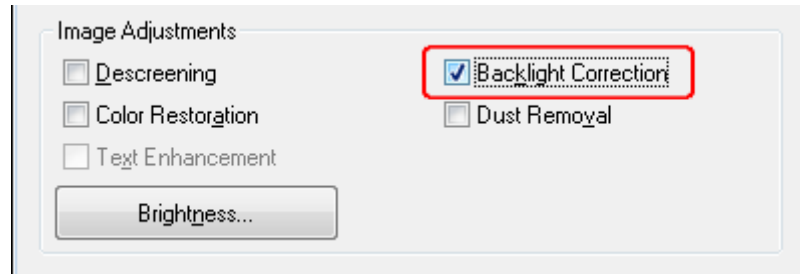
1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Home Mode window, select the **Document Type**, **Image Type**, and **Destination** settings. For details, see “Scanning in Home Mode” on page 44.

4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Click the **Backlight Correction** check box.



Note:

*If you are scanning multiple images at the same time and you want to apply the Backlight Correction feature to all of your images or scan areas, click **All** in the Preview window before you click the check box.*

6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
7. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for details.
8. Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

Backlight Correction in Professional Mode

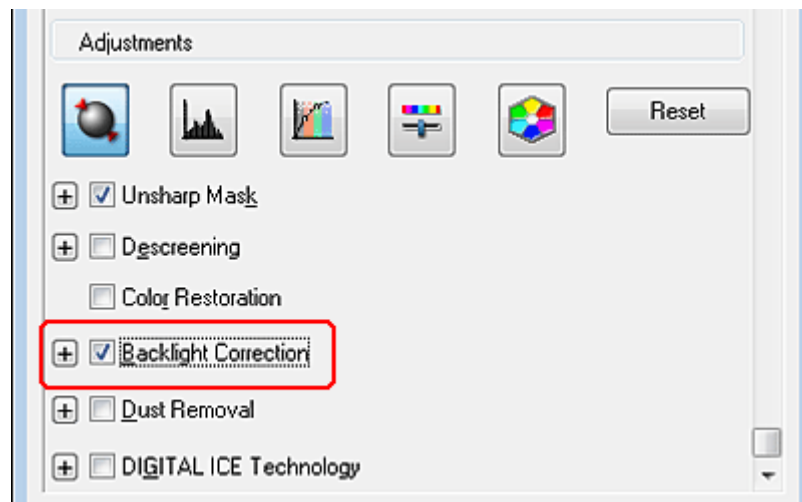
1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.

3. In the Professional Mode window, select the **Document Type**, **Document Source**, **Auto Exposure Type** (for scanning documents or photos) or **Film Type** (for scanning film or slides), **Image Type**, and **Resolution** settings. For details, see “Scanning in Professional Mode” on page 46.
4. Click **Preview** to preview your image(s), then select your scan area. See “Previewing and Adjusting the Scan Area” on page 54 for details.
5. Scroll down to the Adjustments area and click the **Backlight Correction** check box. If you want to increase or decrease the level of the backlight correction effect, click the + (Windows) or ► (Mac OS X) button next to the option and select a setting in the **Level** list.



Note:




*If you are scanning multiple images at the same time and you want to apply the Backlight Correction feature to all of your images or scan areas, click **All** in the Preview window before you click the check box.*

6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
7. Size your image(s) as necessary. See “Selecting the Scan Size” on page 70 for details.
8. Click **Scan**.

What happens next depends on how you started Epson Scan. See “Finishing the Scan” on page 75 for instructions.

Text Enhancement

When you scan documents, you can sharpen the text and increase accuracy by using the **Text Enhancement** feature in Epson Scan.

Original	Text Enhancement: Off	Text Enhancement: On
		

Note:

You can enhance text only when you scan using a resolution of 600 dpi or less.

See one of these sections for instructions on text enhancement.

“Text Enhancement Using the PDF Button” on page 96


Office Mode: “Text Enhancement in Office Mode” on page 97

Home Mode: “Text Enhancement in Home Mode” on page 98

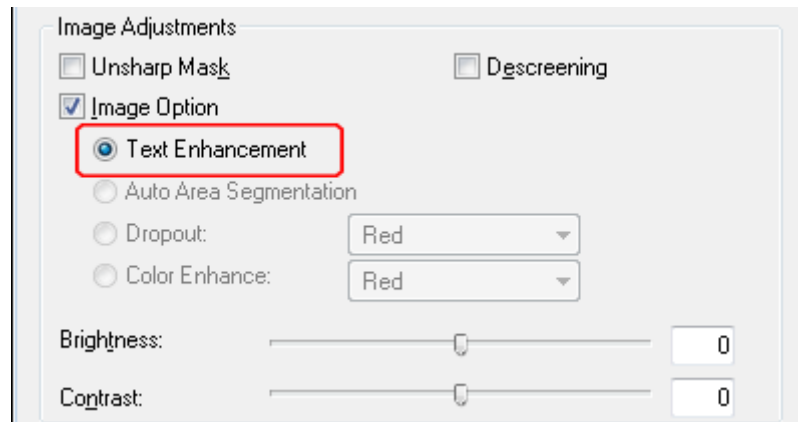
Note:



The instructions in these sections are for scanning to a PDF file, but text enhancement is also effective when you convert scanned documents into editable text. See “Converting Scanned Documents Into Editable Text” on page 129 for details.

Text Enhancement Using the PDF Button

1. Place your document on the document table. See “Placing Documents or Photos” on page 19 for instructions.
2. Press the  PDF button on the scanner.
3. When you see the Scan to PDF window, click **Settings**. You see the Scan to PDF Settings window.

4. In the Scan to PDF Settings window, select the **Image Type** and **Destination** settings. For details, see “Scanning to a PDF File Using the PDF Button” on page 102.
5. Click the **Image Option** check box, and then select **Text Enhancement**.

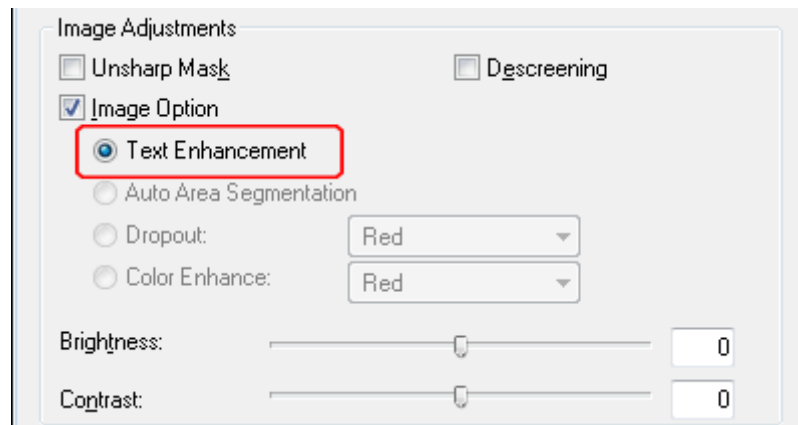


6. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
7. Click **File Save Settings**. Make file save settings as necessary and click **OK**. See “Scanning to a PDF File Using the PDF Button” on page 102 for details.
8. Click **Close** to close the Scan to PDF Settings window, then click **Scan** or press the  Start button on the scanner. Epson Scan scans your page.
9. When you are finished scanning all of your pages, click **Finish** or press the  PDF button on the scanner. Your document is saved as a PDF file in the Pictures or My Pictures folder, or in the location you selected in the File Save Settings window.

Text Enhancement in Office Mode

1. Place your document on the document table. See “Placing Documents or Photos” on page 19 for instructions.
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Office Mode window, select the **Image Type**, and Destination settings. For details, “Scanning in Office Mode” on page 42.

- Click the **Image Option** check box, and then select **Text Enhancement**.

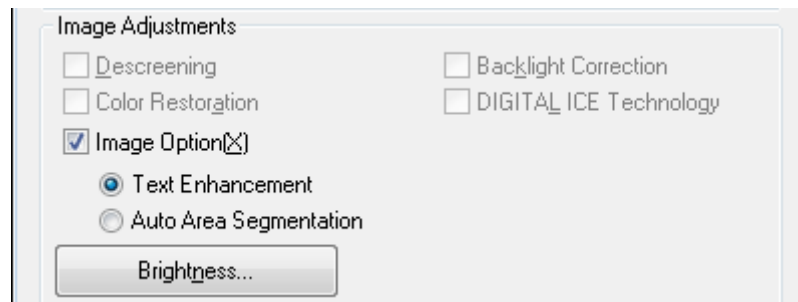


- Click **Preview** to preview your document, then select your scan area. For details, see “Previewing and Adjusting the Scan Area” on page 54.
- Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
- Click **Scan**. The File Save Settings window appears.
- Make File Save and PDF settings as necessary. See “Scanning to a PDF File in Office Mode” on page 109 for details.
- Click **OK**.

Text Enhancement in Home Mode

- Place your document on the document table. See “Placing Documents or Photos” on page 19 for instructions.
- Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
- In the Home Mode window, select the **Document Type**, **Image Type**, and **Destination** settings. For details, see “Scanning in Home Mode” on page 44.

- Click the **Image Option** check box, and then select **Text Enhancement**.



- Click **Preview** to preview your document, then select your scan area. For details, see “Previewing and Adjusting the Scan Area” on page 54.
- Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
- Click **Scan**. The File Save Settings window appears.
- Make File Save and PDF settings as necessary. See “Scanning to a PDF File in Home Mode” on page 115 for details.
- Click **OK**.

Using the Scanner as a Copier

You can use your scanner with a printer connected to your computer just as you would use a copy machine. See the Copy Utility help for details on using the application. To access the Copy Utility help, select **Help** on the menu bar.

Note for Mac OS X 10.5.8 users:

Copy Utility is not supported for Mac OS X 10.5.8.

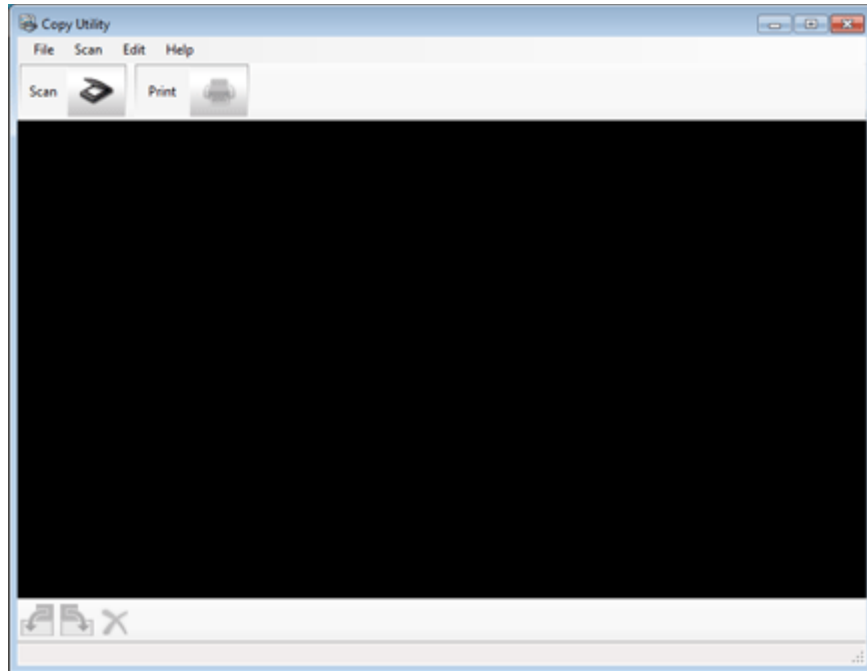
- Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

- Press the  button on the scanner.


The Copy Utility window and the EPSON Scan window are displayed.



Note:

You can also start the Copy Utility from your computer.

- ☐ **Windows:** Select the start button or **Start > Programs** or **All Programs > Epson Software > Copy Utility**.
- ☐ **Mac OS X:** Select **Applications > Epson Software > Copy Utility**, and double-click the **Copy Utility** icon.

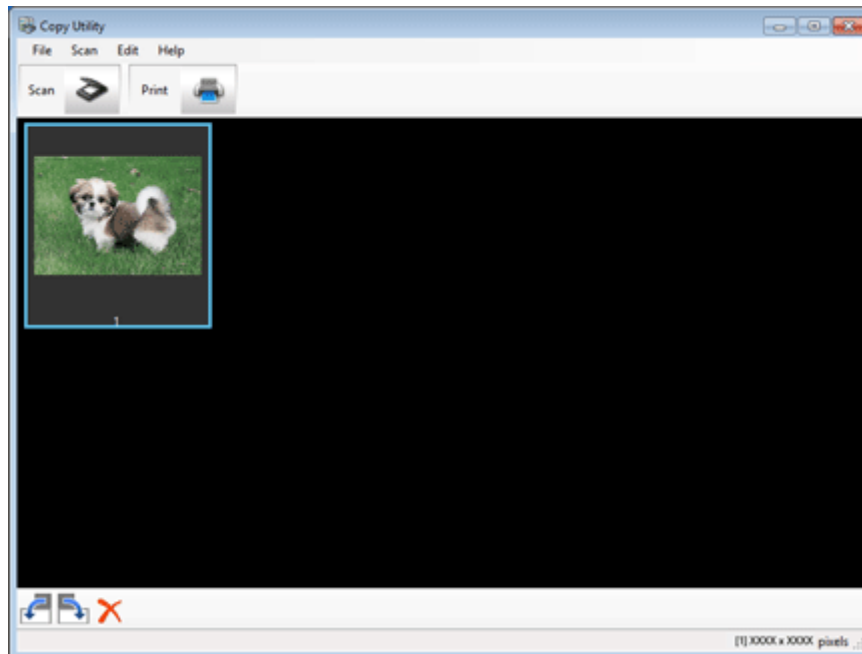
When the Copy Utility window is displayed, click  to open the EPSON Scan window.


3. Scan your document.

See the EPSON Scan help for more information on how to scan.

4. If the EPSON Scan window is still open after scanning the document, click **Close**.

The scanned image is displayed in the Copy Utility main window.



5. Check the scanned image and then rotate it using the thumbnail tool if necessary.
6. When you have finished checking the image, click .

The window for print settings is displayed.

7. Specify the necessary items, and then click **Print** to print the image.

The scanned image is printed.

Scanning to a PDF File

The easiest way to scan multiple document pages to a PDF file is to press the  PDF button on the scanner. See “Scanning to a PDF File Using the PDF Button” on page 102 for instructions.

Using Epson Scan, you can create a PDF file with the following features.

Scanning multiple document pages into a single PDF file: You can scan multiple document pages and save them in a single PDF file.

Creating a searchable PDF file: You can create a PDF file with search functionality, so that you can look for words in the file. (This feature may not be available in some countries.)

Specifying the number of pages in a single PDF file: You can specify the maximum number of pages that can be included in one PDF file. For example, if you are scanning a 20-page document, and specify the page number to be included in one PDF as 4, 5 PDF files are automatically created.

Note:

You need ABBYY FineReader that came with your scanner to use some of these features. If you have installed your scanning software as described in the paper manual, it has already been installed. (ABBYY FineReader may not be available in some countries.)

See one of these sections to start scanning to a PDF file.

“Scanning to a PDF File Using the PDF Button” on page 102

Full Auto Mode: Select **PDF** as the Image Type setting in the File Save Settings window. See “Scanning in Full Auto Mode” on page 38 for instructions. If you want to scan multiple document pages into one PDF file serially, change the scan mode to Office Mode, Home Mode or Professional Mode. See “Changing the Scan Mode” on page 36 for instructions.


Office Mode: “Scanning to a PDF File in Office Mode” on page 109

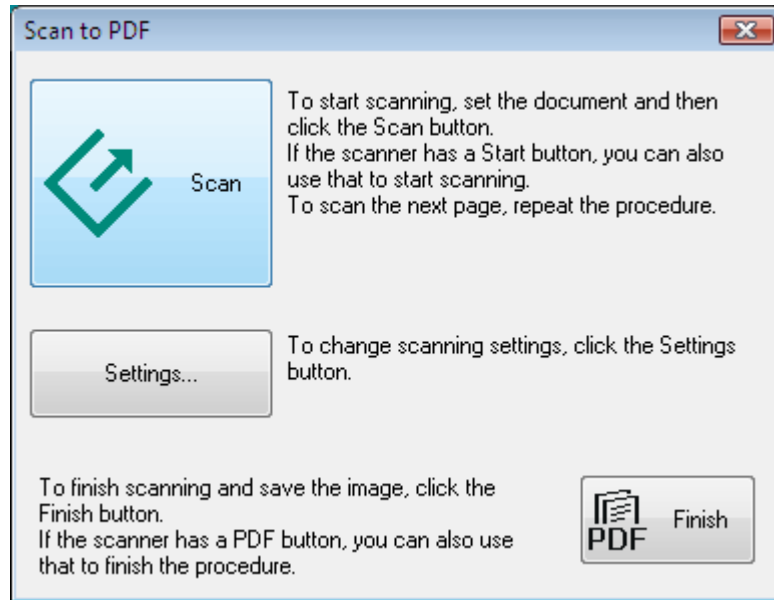
Home Mode: “Scanning to a PDF File in Home Mode” on page 115

Professional Mode: “Scanning to a PDF File in Professional Mode” on page 121

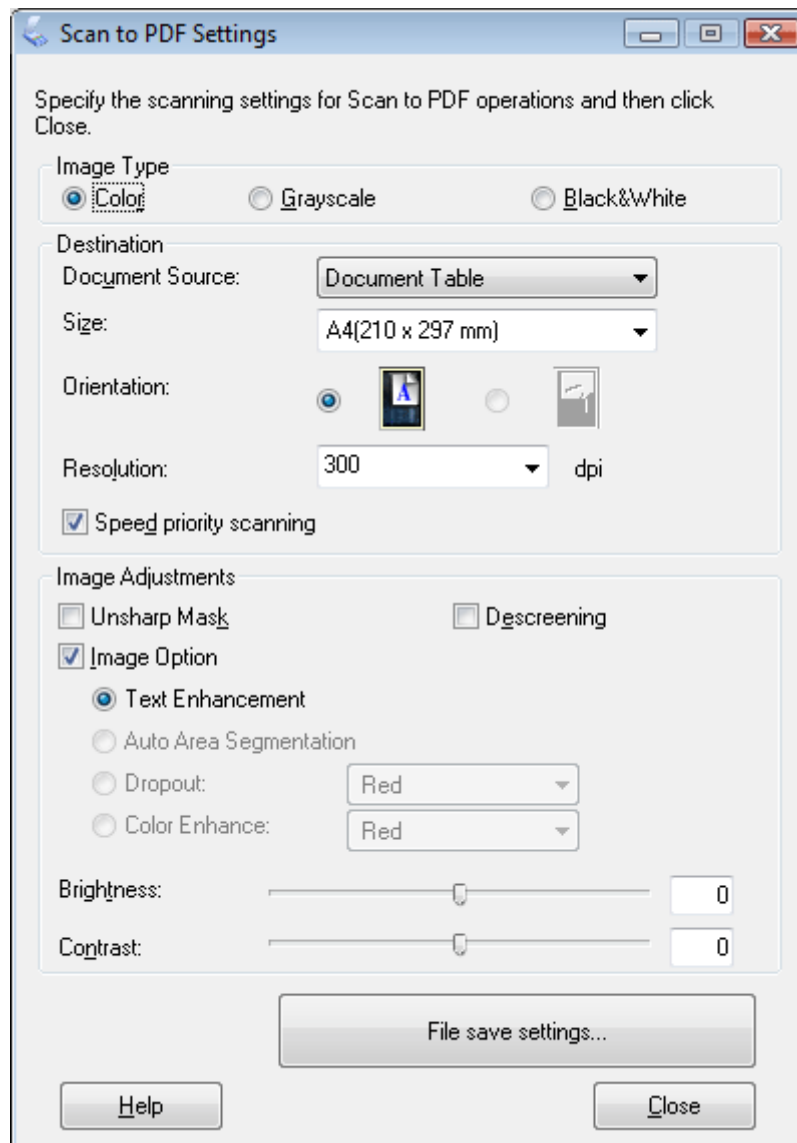
Scanning to a PDF File Using the PDF Button

1. Place your document on the document table. See “Placing Documents or Photos” on page 19 for instructions.

2. Press the  PDF button on the scanner. You see the Scan to PDF window.

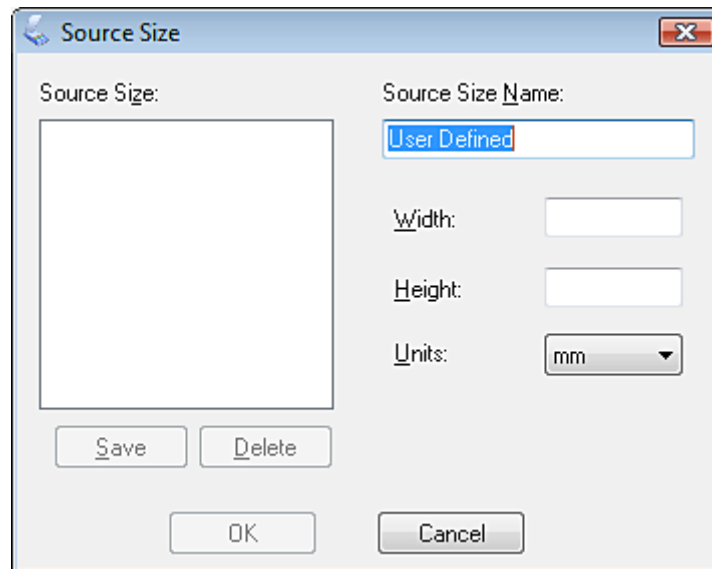


3. Click **Settings**. You see the Scan to PDF Settings window.



4. Select **Color**, **Grayscale**, or **Black&White** as the Image Type setting to select the colors in the original.
5. Select **Document Table** as the Document Source setting.
6. Click the arrow to open the **Size** list and select the size of your original(s).

7. If you need to select a size that is not in the Size list, you can create a custom size. Click the arrow in the Size list and select **Customize**. You see the Source Size window.



Type a name for your custom size, enter the size, click **Save**, then click **OK**. Your new size appears in the Size list.

8. Click the arrow next to the **Resolution** list and select the number of dots per inch at which you want to scan. See the table below for guidelines.

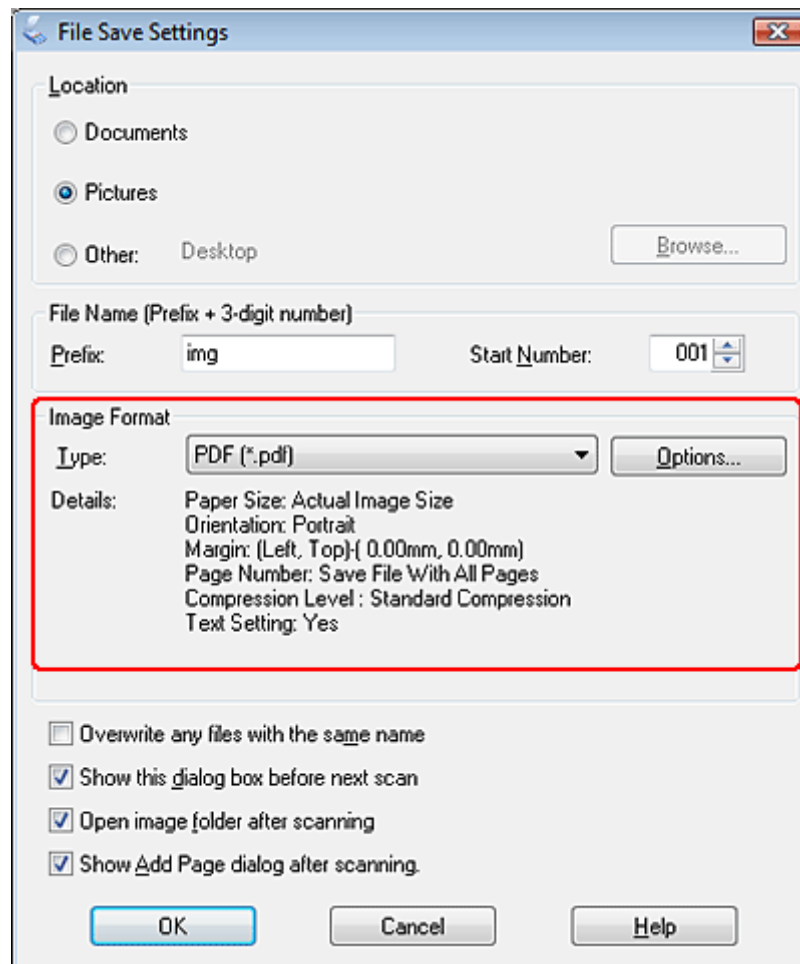
What you will do with the scanned image	Suggested scan resolution
Send via e-mail, upload to web, view only on the screen	96 to 150 dpi
Fax	200 dpi
Print	300 dpi

9. Use the settings in the Image Adjustments area of the window to modify the image quality if necessary. See the table below for guidelines.

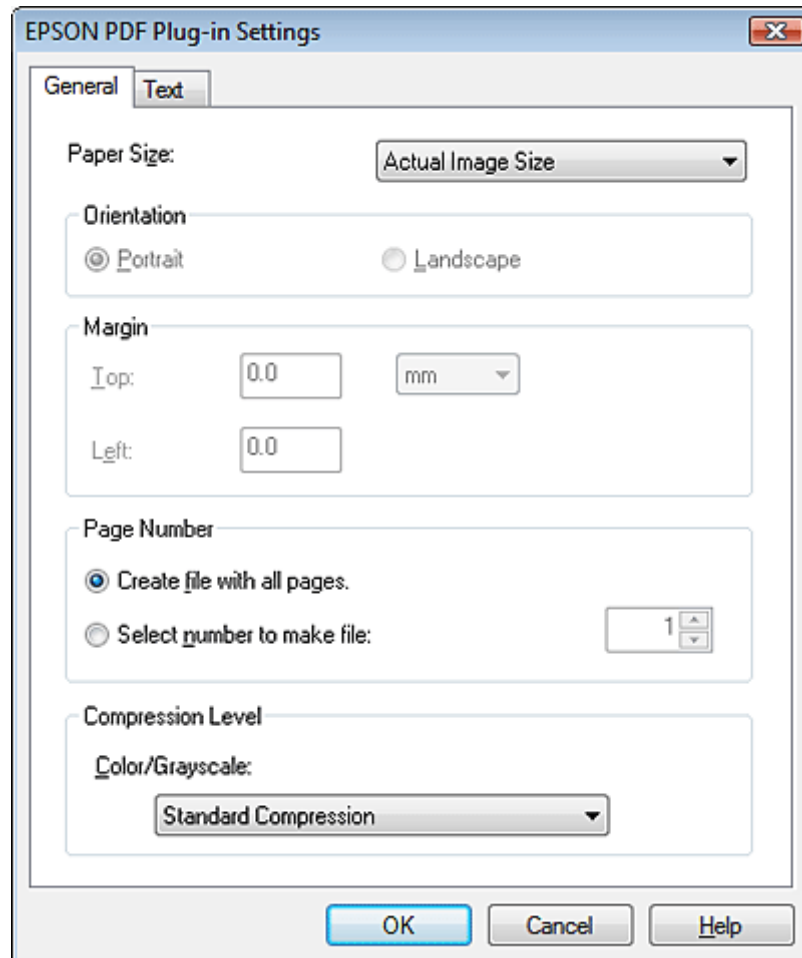
Setting	Description
Brightness	Adjusts the overall image lightness and darkness. This setting is available only when the Image Type is set to Color or Grayscale.

Contrast		Adjusts the difference between the light and dark areas of the overall image. This setting is available only when the Image Type is set to Color or Grayscale.
Unsharp Mask		Turn on to make the edges of image areas clearer for an overall sharper image. Turn off to leave softer edges. This setting is available only when the Image Type is set to Color or Grayscale.
Descreening		Removes the rippled pattern that can appear in subtly shaded image areas, such as skin tones. Also improves results when scanning magazine or newspaper images that include screening in their original print process. This setting is available only when the Image Type is set to Color or Grayscale.
Image Option	Text Enhancement	Enhances text recognition when scanning text documents. This setting is available in the following conditions: <ul style="list-style-type: none"> - when the Image Type is set to Color and Image Option is selected - when the Image Type is set to Grayscale and Image Option is selected - when the Image Type is set to Black&White and Image Option is selected When the Image Type is set to Black&White, the results of Text Enhancement do not appear in the preview, only in your scanned image.
	Auto Area Segmentation	Makes Black&White images clearer and text recognition more accurate by separating the text from the graphics. This setting is available only when the Image Type is set to Black&White and Image Option is selected.
	Dropout	Drops out red, green, or blue in the scan. This setting is available in the following conditions: <ul style="list-style-type: none"> - when the Image Type is set to Grayscale and Image Option is selected - when the Image Type is set to Black&White and Image Option is selected
	Color Enhance	Enhances red, green, or blue in the scan. This setting is available in the following conditions: <ul style="list-style-type: none"> - when the Image Type is set to Grayscale and Image Option is selected - when the Image Type is set to Black&White and Image Option is selected
Threshold		Adjusts the level at which the black areas in text and line art are delineated, improving text recognition in OCR programs. This setting is available only when the Image Type is set to Black&White.

10. Click **File Save Settings**. The File Save Settings window appears. The current Paper Size, Orientation, Margin, and other settings are displayed below it.




11. If you need to change any of the current PDF settings, click **Options**. You see the EPSON PDF Plug-in Settings window.





Select the settings that match your document and click **OK**. You return to the File Save Settings window.

Note:

The Text tab is available only when ABBYY FineReader is installed. If ABBYY FineReader is not available in your country, you will not see the Text tab.

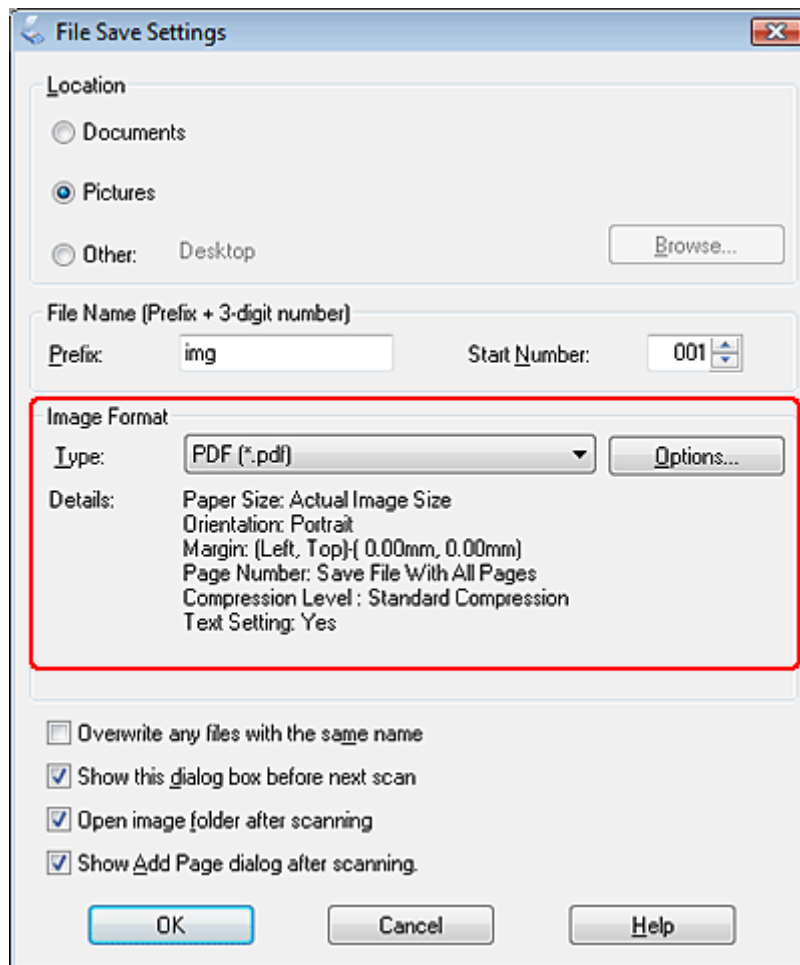
12. Make any other file save settings, and click **OK**.
13. Click **Close** to close the Scan to PDF Settings window, then click **Scan** or press the  Start button on the scanner. Epson Scan scans your page.

14. If you are scanning multiple pages, replace the first page on the document table with the second page and click **Scan** or press the  Start button again. Repeat this step for each page in your document.
15. When you are finished, click **Finish** or press the  PDF button on the scanner. Your document is saved as a PDF file in the Pictures or My Pictures folder, or in the location you selected in the File Save Settings window.

Scanning to a PDF File in Office Mode

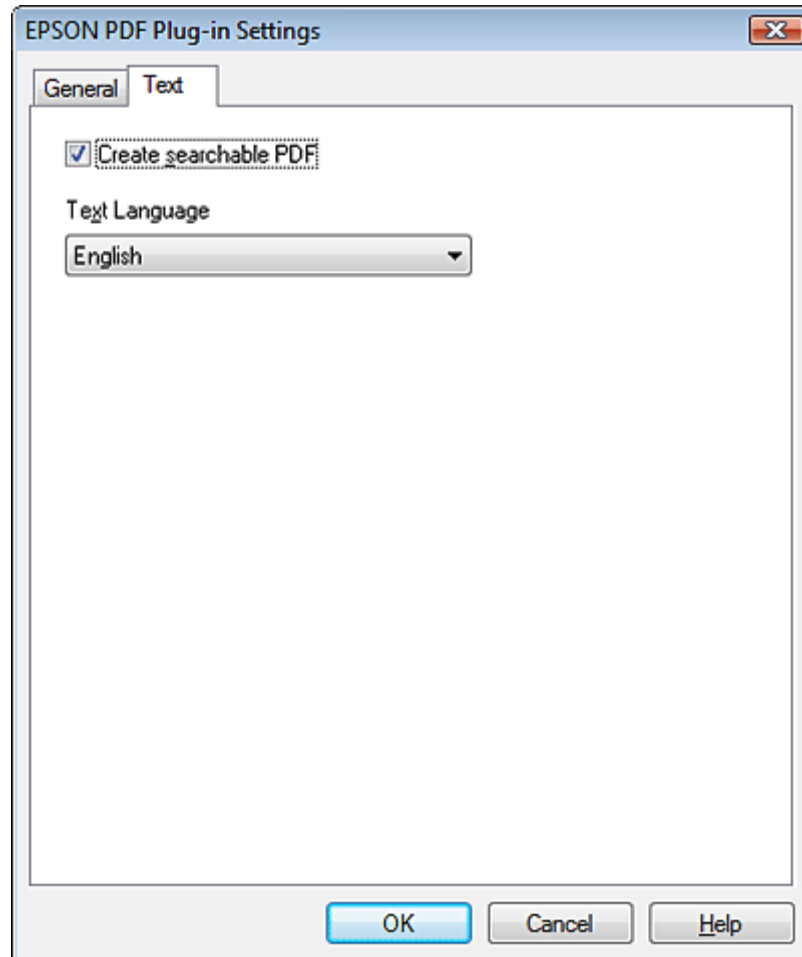
1. Place your document on the document table. See “Placing Documents or Photos” on page 19 for instructions.
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Office Mode window, select the **Image Type**, **Document Source**, **Size**, and **Resolution** settings. For details, “Scanning in Office Mode” on page 42.
4. Click **Preview** to preview your image(s), then select your scan area. For details, see “Previewing and Adjusting the Scan Area” on page 54.
5. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
6. Click **Scan**. The File Save Settings window appears.

7. Select **PDF** as the Type setting. The current Paper Size, Orientation, Margin, and other settings are displayed below it.



8. Click **Options**. You see the EPSON PDF Plug-in Settings window.

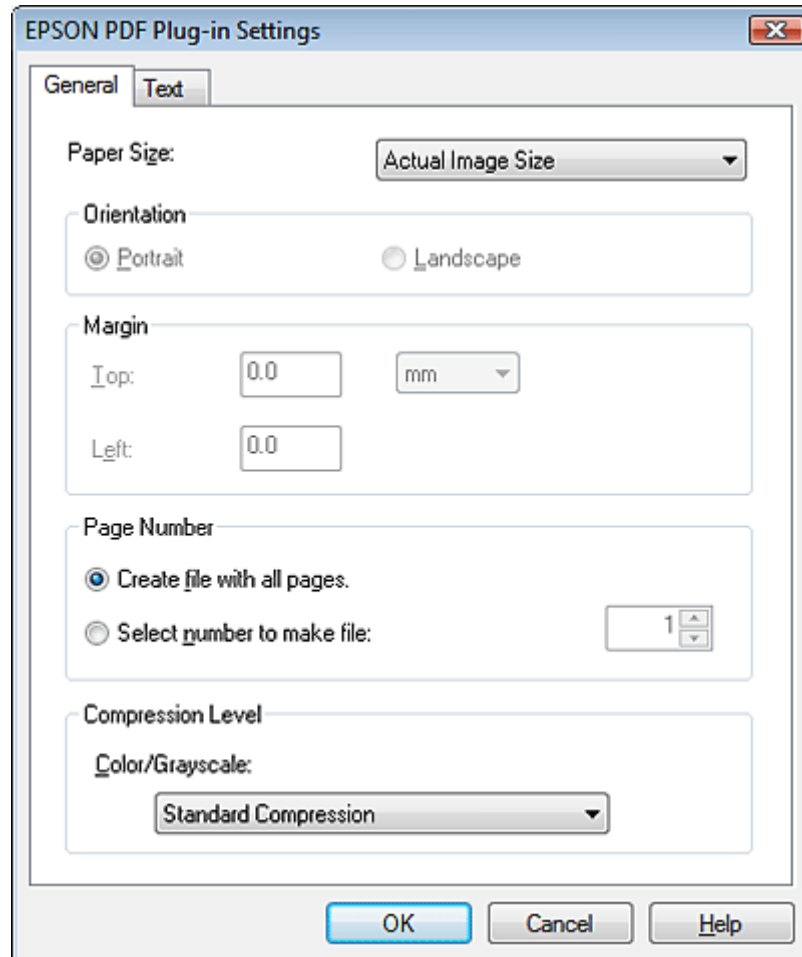
To create a searchable PDF file, click the **Text** tab, select the **Create searchable PDF** check box, then select your language from the **Text Language** list.



Note:

The Text tab is available only when ABBYY FineReader is installed. If ABBYY FineReader is not available in your country, you will not see the Text tab.

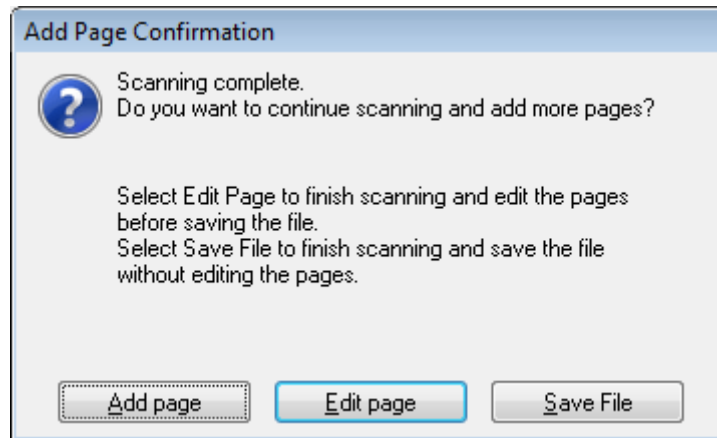
To specify the maximum number of pages that can be included in one PDF file, click the **General** tab and adjust the **Select number to make file** setting.



For other settings in the EPSON PDF Plug-in Settings window, see Epson Scan Help for details.

9. Select the settings that match your document and click **OK**. You return to the File Save Settings window.

10. Make any other file save settings, and click **OK**. Epson Scan scans your document and displays the window below.



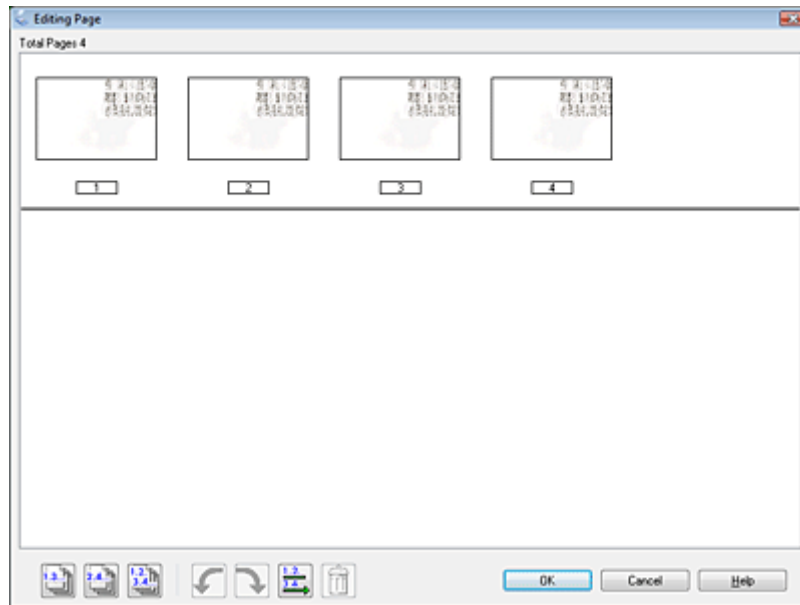
Note:

*If you deselect the **Show Add Page dialog after scanning** check box in the File Save Settings window, this window does not appear and Epson Scan automatically saves your document.*

11. Select one of the following options.






- ☐ **Add page:** Click this button to scan the next page of your document. Replace the first page on the document table with the next page, and click **Scan**. Repeat this step for each page in your document. When you are finished, click **Edit page** and go to step 12.
- ☐ **Edit page:** Click this button if you have scanned all the necessary pages so you can edit the scanned pages before saving them in one PDF file. Then go to step 12.
- ☐ **Save File:** Click this button when you are ready to finish scanning and save the scanned pages into one PDF without editing them. Then go to step 14.




12. You see the Editing Page window displaying thumbnail images of each scanned page.




Use the tools below the Editing Page window to select, rotate, reorder, and delete pages.

If you want to include all the document pages in your PDF files as they currently look, go to step 13.

If you want to rotate pages, click the pages, or use the  odd pages,  even pages, or  all pages icon to select the pages, then click the  left or  right rotate icon to rotate them.

If you want to delete pages, click the pages, or use the  odd pages, or  even pages icon to select the pages, then click the  delete icon to delete them.

Note:

The  delete icon is not available when all pages are selected.

For further details on the tools in the Editing Page window, see Epson Scan Help.

13. When you have finished editing your pages, click **OK**. The pages are saved in one PDF file in Pictures, My Pictures, or the location you selected in the File Save Settings window, and you return to the Office Mode window.
14. Click **Close** to exit Epson Scan.

Scanning to a PDF File in Home Mode

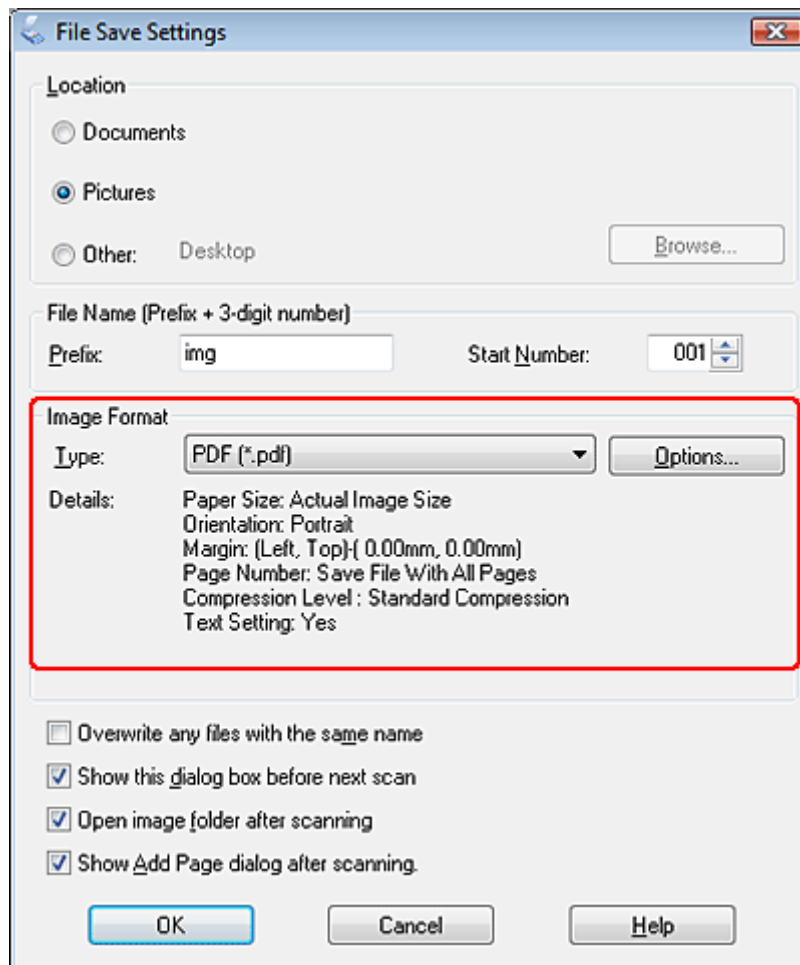
1. Place your document on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

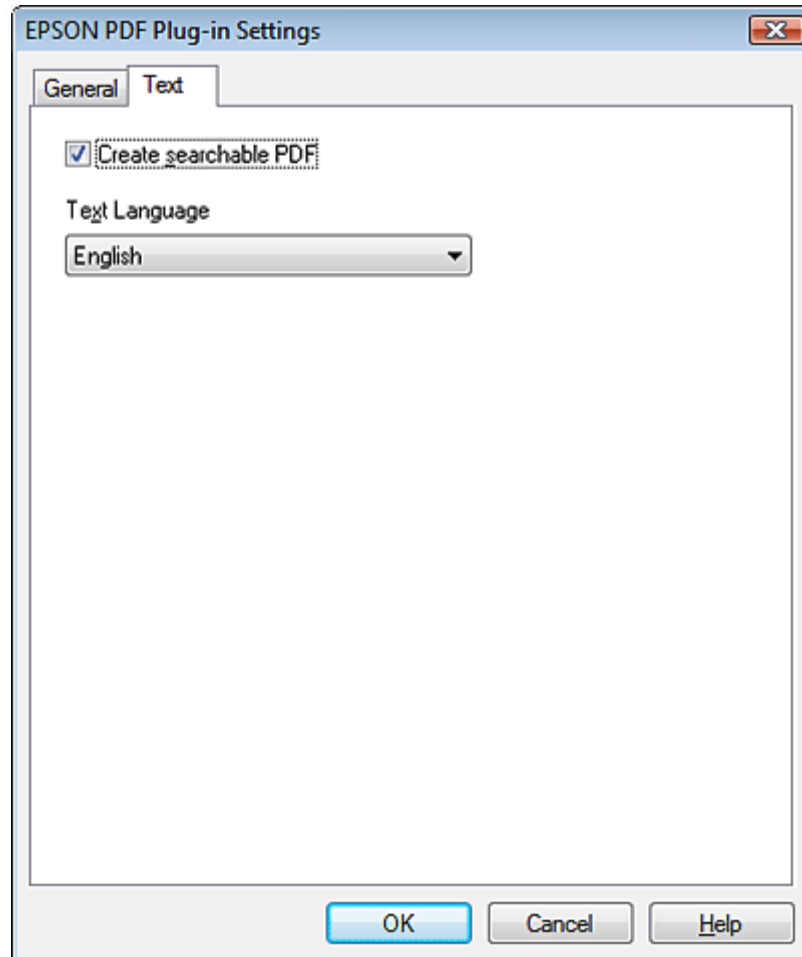
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Home Mode window, select the **Document Type**, **Image Type**, and **Destination** settings. For details, see “Scanning in Home Mode” on page 44.
4. Click **Preview** to preview your image(s), then select your scan area. For details, see “Previewing and Adjusting the Scan Area” on page 54.
5. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
6. Size your image as necessary. See “Selecting the Scan Size” on page 70 for details.
7. Click **Scan**. The File Save Settings window appears.

8. Select **PDF** as the Type setting. The current Paper Size, Orientation, Margin, and other settings are displayed below it.



9. Click **Options**. You see the EPSON PDF Plug-in Settings window.

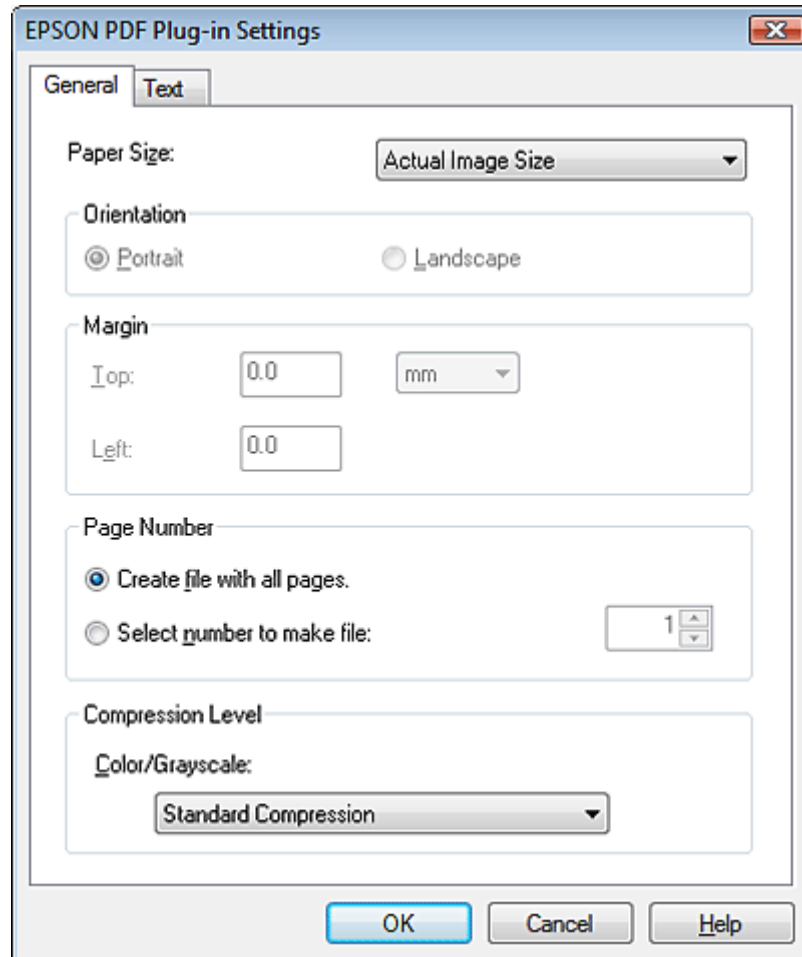
To create a searchable PDF file, click the **Text** tab, select the **Create searchable PDF** check box, then select your language from the **Text Language** list.



Note:

The Text tab is available only when ABBYY FineReader is installed. If ABBYY FineReader is not available in your country, you will not see the Text tab.

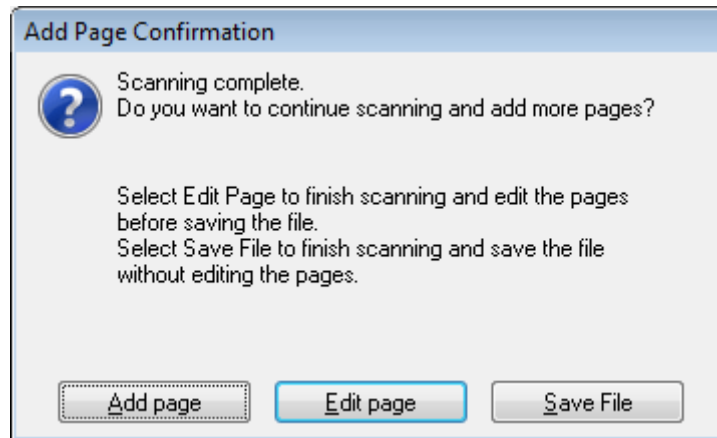
To specify the maximum number of pages that can be included in one PDF file, click the **General** tab and adjust the **Select number to make file** setting.



For other settings in the EPSON PDF Plug-in Settings window, see Epson Scan Help for details.

10. Select the settings that match your document and click **OK**. You return to the File Save Settings window.

11. Make any other file save settings, and click **OK**. Epson Scan scans your document and displays the window below.



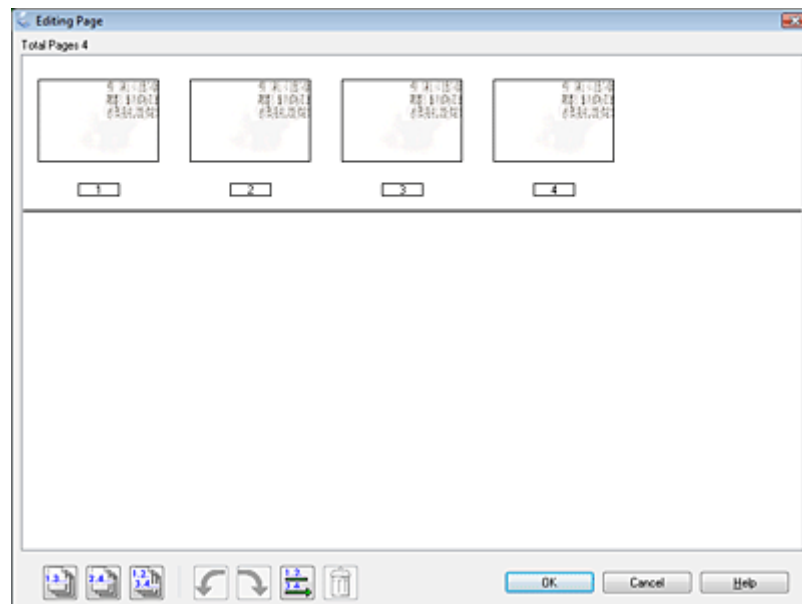
Note:

*If you deselect the **Show Add Page dialog after scanning** check box in the File Save Settings window, this window does not appear and Epson Scan automatically saves your document.*

12. Select one of the following options.

- ☐ **Add page:** Click this button to scan the next page of your document. Replace the first page on the document table with the next page, and click **Scan**. Repeat this step for each page in your document. When you are finished, click **Edit page** and go to step 13.
- ☐ **Edit page:** Click this button if you have scanned all the necessary pages so you can edit the scanned pages before saving them in one PDF file. Then go to step 13.
- ☐ **Save File:** Click this button when you are ready to finish scanning and save the scanned pages into one PDF without editing them. Then go to step 15.

13. You see the Editing Page window displaying thumbnail images of each scanned page.



Use the tools below the Editing Page window to select, rotate, reorder, and delete pages.

If you want to include all the document pages in your PDF files as they currently look, go to step 14.

If you want to rotate pages, click the pages, or use the odd pages, even pages, or all pages icon to select the pages, then click the left or right rotate icon to rotate them.

If you want to delete pages, click the pages, or use the odd pages or even pages icon to select the pages, then click the delete icon to delete them.

Note:

The delete icon is not available when all pages are selected.

For further details on the tools in the Editing Page window, see Epson Scan Help.

14. When you have finished editing your pages, click **OK**. The pages are saved in one PDF file in Pictures, My Pictures, or the location you selected in the File Save Settings window, and you return to the Home Mode window.
15. Click **Close** to exit Epson Scan.

Scanning to a PDF File in Professional Mode

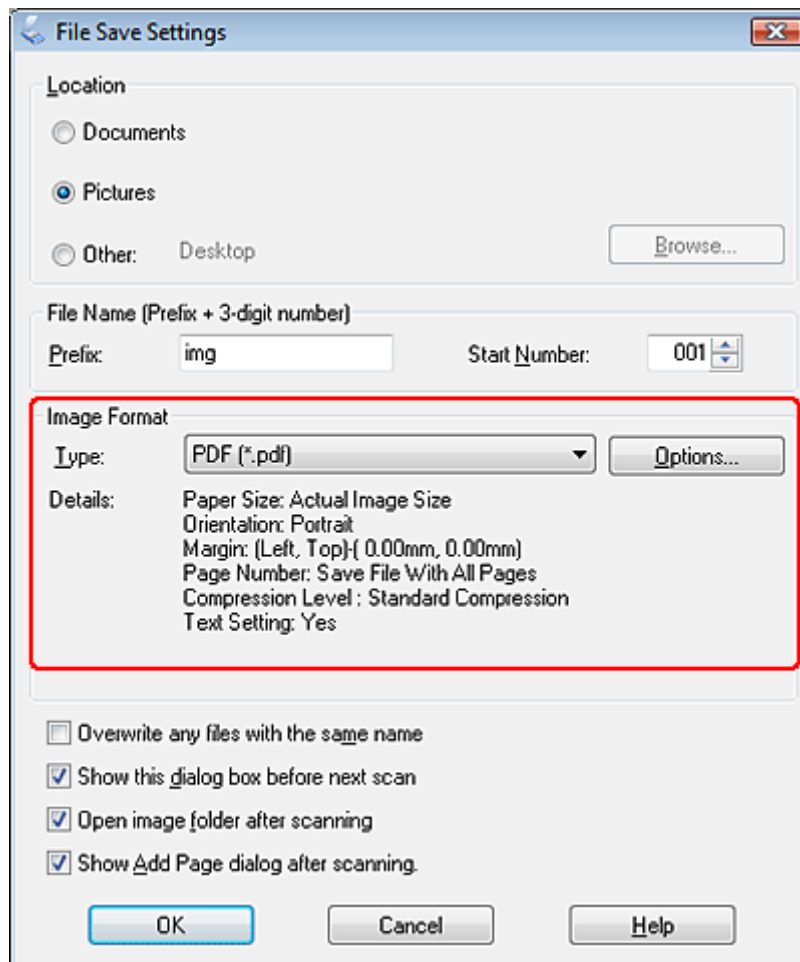
1. Place your document on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

Film or slides: “Placing Film or Slides” on page 22

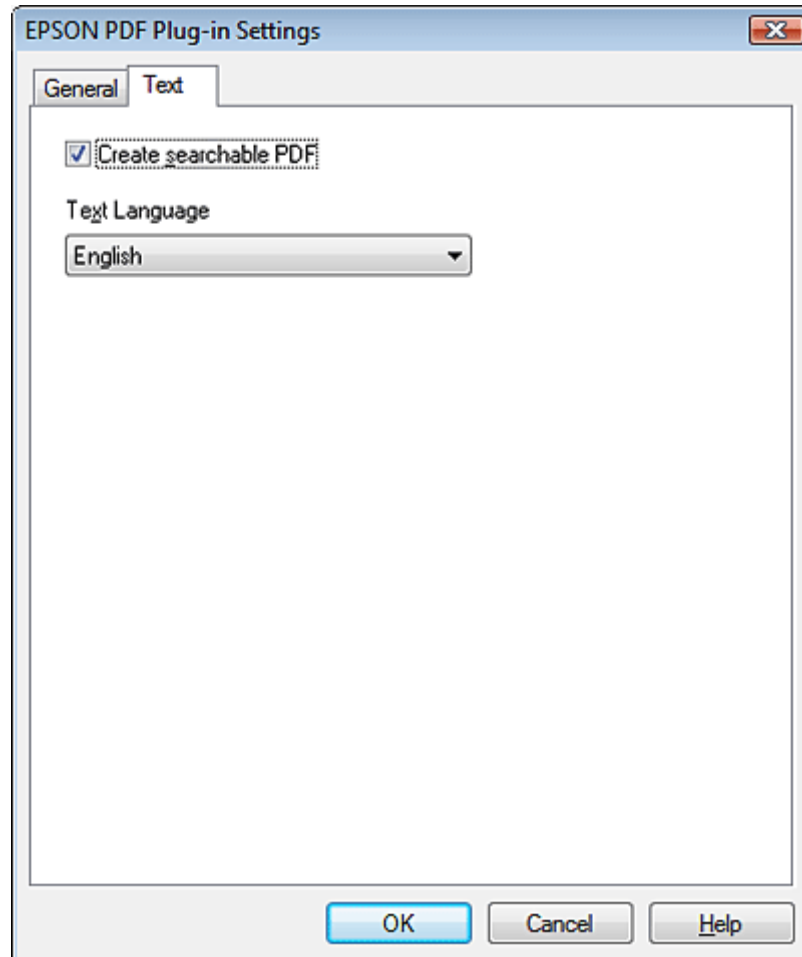
2. Start Epson Scan. See “Starting Epson Scan” on page 34 for instructions.
3. In the Professional Mode window, select the **Document Type**, **Document Source**, **Auto Exposure Type**, **Image Type**, and **Resolution** settings. For details, see “Scanning in Professional Mode” on page 46.
4. Click **Preview** to preview your image(s), then select your scan area. For details, see “Previewing and Adjusting the Scan Area” on page 54.
5. Make any other necessary image adjustments. See “Adjusting the Color and Other Image Settings” on page 61 for details.
6. Size your image as necessary. See “Selecting the Scan Size” on page 70 for details.
7. Click **Scan**. The File Save Settings window appears.

8. Select **PDF** as the Type setting. The current Paper Size, Orientation, Margin, and other settings are displayed below it.



9. Click **Options**. You see the EPSON PDF Plug-in Settings window.

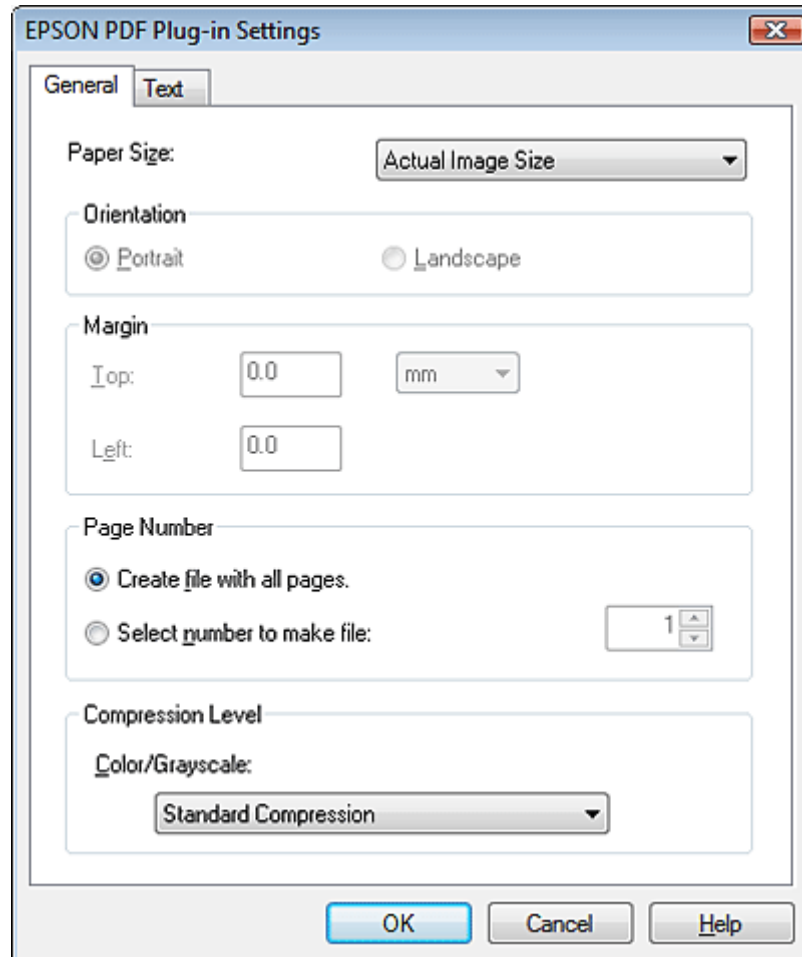
To create a searchable PDF file, click the **Text** tab, select the **Create searchable PDF** check box, then select your language from the **Text Language** list.



Note:

The Text tab is available only when ABBYY FineReader is installed. If ABBYY FineReader is not available in your country, you will not see the Text tab.

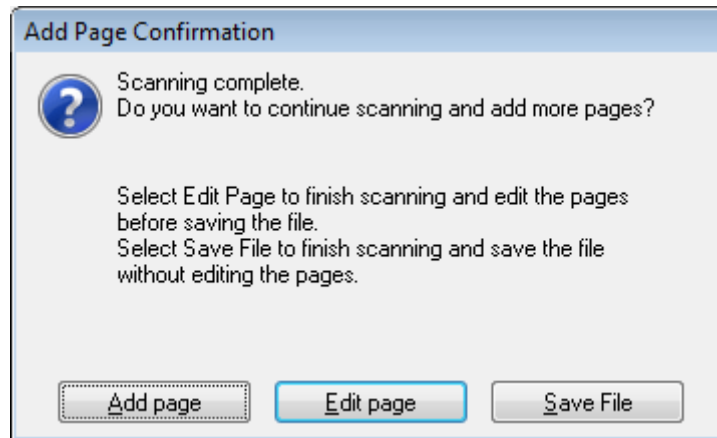
To specify the maximum number of pages that can be included in one PDF file, click the **General** tab and adjust the **Select number to make file** setting.



For other settings in the EPSON PDF Plug-in Settings window, see Epson Scan Help for details.

10. Select the settings that match your document and click **OK**. You return to the File Save Settings window.

11. Make any other file save settings, and click **OK**. Epson Scan scans your document and displays the window below.



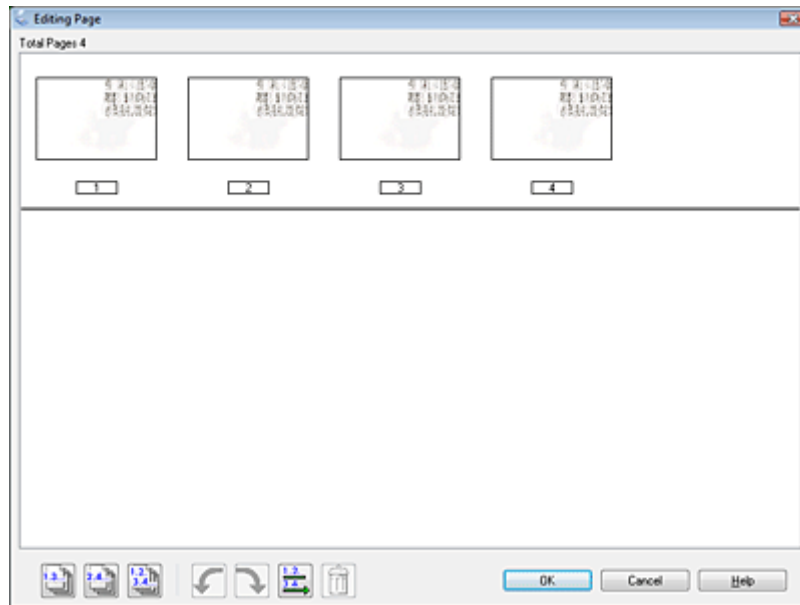
Note:

*If you deselect the **Show Add Page dialog after scanning** check box in the File Save Settings window, this window does not appear and Epson Scan automatically saves your document.*

12. Select one of the following options.






- ☐ **Add page:** Click this button to scan the next page of your document. Replace the first page on the document table with the next page, and click **Scan**. Repeat this step for each page in your document. When you are finished, click **Edit page** and go to step 13.
- ☐ **Edit page:** Click this button if you have scanned all the necessary pages so you can edit the scanned pages before saving them in one PDF file. Then go to step 13.
- ☐ **Save File:** Click this button when you are ready to finish scanning and save the scanned pages into one PDF without editing them. Then go to step 15.




13. You see the Editing Page window displaying thumbnail images of each scanned page.




Use the tools below the Editing Page window to select, rotate, reorder, and delete pages.

If you want to include all the document pages in your PDF files as they currently look, go to step 14.

If you want to rotate pages, click the pages, or use the  odd pages,  even pages, or  all pages icon to select the pages, then click the  left or  right rotate icon to rotate them.

If you want to delete pages, click the pages, or use the  odd pages or  even pages icon to select the pages, then click the  delete icon to delete them.

Note:

The  delete icon is not available when all pages are selected.

For further details on the tools in the Editing Page window, see Epson Scan Help.

14. When you have finished editing your pages, click **OK**. The pages are saved in one PDF file in Pictures, My Pictures, or the location you selected in the File Save Settings window, and you return to the Professional Mode window.
15. Click **Close** to exit Epson Scan.

Scanning Directly to an E-mail

You can scan and automatically attach scanned image file(s) to an e-mail message with the  E-mail button on the scanner.

1. Place your original(s) on the document table. See one of these sections for instructions.

Documents or photos: “Placing Documents or Photos” on page 19

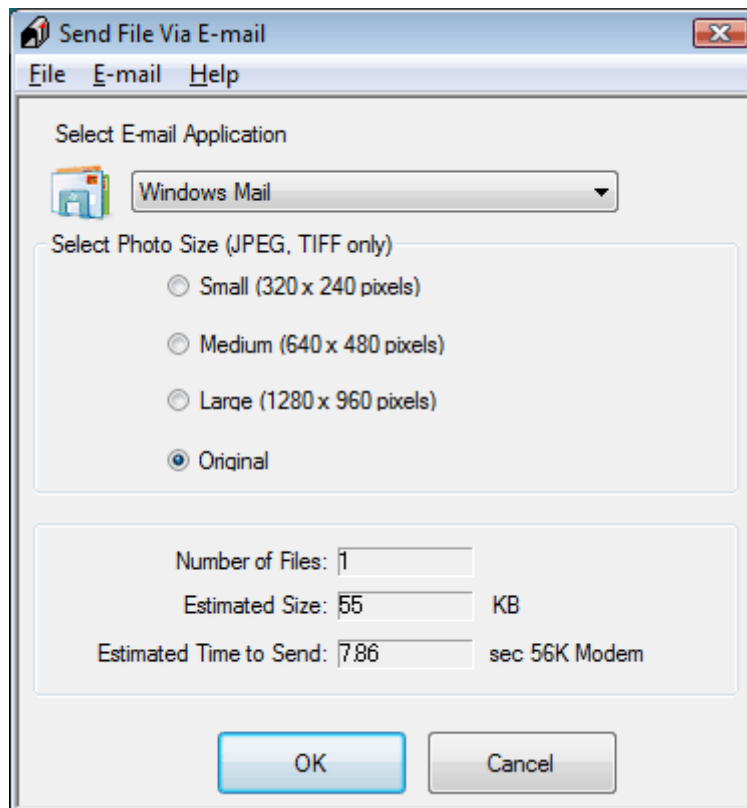
Film or slides: “Placing Film or Slides” on page 22

2. Press the  E-mail button on the scanner. Epson Scan starts in Full Auto Mode and automatically scans your image as a JPEG file.

Note:

- ☐ *If you want to restore color in or remove dust from your images before scanning, click the **Pause** button to return to the Full Auto Mode window. Then click **Customize**, select your options, click **OK**, and click **Scan** to continue.*
- ☐ *If you want to scan in Office Mode, Home Mode or Professional Mode, click **Pause** to return to the Full Auto Mode window, then change the scan mode. See “Changing the Scan Mode” on page 36 for instructions.*

After scanning is finished, you see the Send File Via E-mail window.



3. Select the e-mail program you use in the Select E-mail Application list.
4. If you want to resize your image(s), choose an option under Select Photo Size.

Note:

The box at the bottom of the window displays information about the image file(s) you are attaching to the e-mail message.

5. Click **OK**. Your e-mail program is opened and any scanned images you selected are attached to a new e-mail message. See your e-mail program Help if you need instructions on sending your e-mail message.

Converting Scanned Documents Into Editable Text

You can scan a document and convert the text into a format data that you can edit with a word processing program. This process is called OCR (Optical Character Recognition). To scan and use OCR, you need to use an OCR program, such as the ABBYY FineReader program that came with your scanner.

Note:

ABBYY FineReader may not be included in some countries.

OCR software cannot recognize or has difficulty recognizing the following types of documents or text.

- ☐ Handwritten characters
- ☐ Items that have been copied from other copies
- ☐ Faxes
- ☐ Text with tightly spaced characters or line pitch
- ☐ Text that is in tables or underlined
- ☐ Cursive or italic fonts, and font sizes less than 8 points

1. Place your document on the document table. See “Placing Documents or Photos” on page 19 for details.
2. Do one of the following to start ABBYY FineReader.

Windows: Select the start button or **Start > Programs** or **All Programs > ABBYY FineReader X.X Sprint > ABBYY FineReader X.X Sprint**.





Mac OS X: Select **Applications** and double-click the **ABBYY FineReader X.X Sprint**.

You see the ABBYY FineReader window.

3. Follow the instructions in ABBYY FineReader Help.

Assigning a Program to a Scanner Button

Each scanner button opens a pre-selected program when you press it. The default programs they open and the default actions they perform are described in the table below.

Button	Default action
 Start	Epson Scan starts.
 Copy	Epson Copy Utility starts.
 E-mail	Epson Scan automatically scans, then the Send File Via E-mail window appears.
 PDF	The Scan to PDF window appears.

Note for Mac OS X 10.5.8 users:

Copy Utility is not supported for Mac OS X 10.5.8.

Assigning a Project Program in Epson Event Manager to a Scanner Button

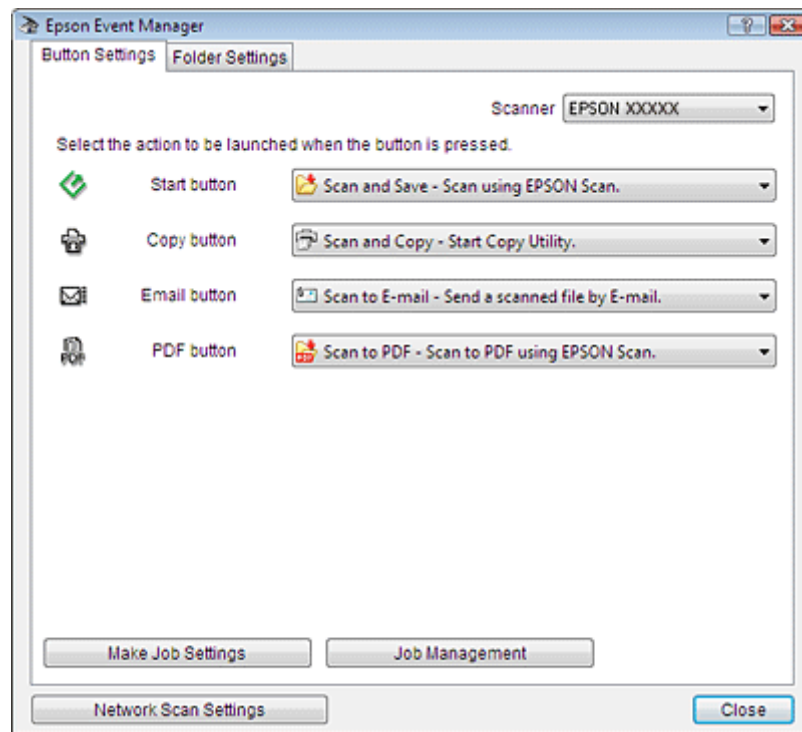
You can assign any of the scanner buttons to open a program in the Epson Event Manager to make scanning your projects even quicker.

1. Do one of the following to start Epson Event Manager:

Windows: Select the start button or **Start > Programs** or **All Programs > Epson Software > Event Manager**.

Mac OS X: Select **Applications > Epson Software**, and double-click the **Launch Event Manager** icon.

You see the Button Settings tab in Epson Event Manager.




2. Click the arrow in the list next to the button name, then select the action you want to assign.
3. Click **Close** to close the Epson Event Manager window.

Now whenever you press the button you assigned, the action you selected opens.

Note:

If you need help using Epson Event Manager, do one of the following.

For Windows: Click the  icon in the upper right corner of the screen.

For Mac OS X: Click **Help** from menu, then **Epson Event Manager Help**

Chapter 6

Maintenance

Cleaning the Scanner

To keep your scanner operating at its best, clean it periodically using the following procedure.

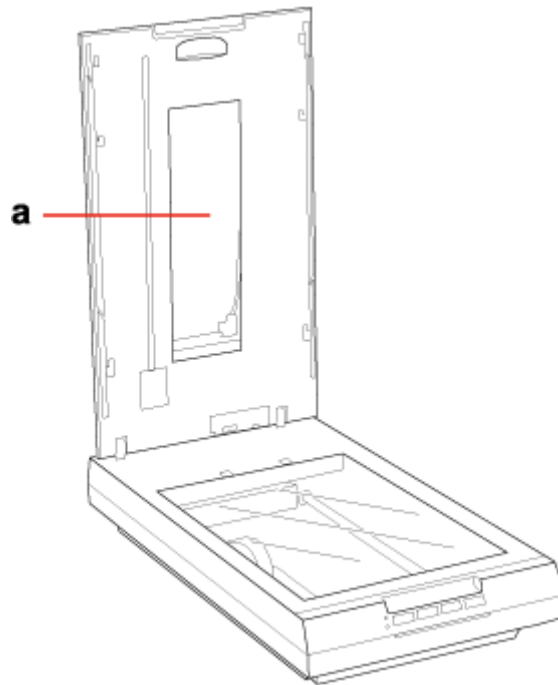
**Caution:**

- ☐ *Do not press the glass surface of the document table with any force.*
 - ☐ *Be careful not to scratch or damage the glass surface of the document table, and do not use a hard or abrasive brush to clean it. A damaged glass surface can decrease the scan quality.*
 - ☐ *Never use alcohol, thinner, or corrosive solvent to clean the scanner. These chemicals can damage the scanner components and the case.*
 - ☐ *Be careful not to spill liquid into the scanner mechanism or electronic components. This could permanently damage the mechanism and circuitry.*
 - ☐ *Do not spray lubricants inside the scanner.*
 - ☐ *Never open the scanner case.*
1. Turn off the scanner using its power switch.
 2. Unplug the AC power cord from the scanner.
 3. Disconnect the USB cable from the scanner.
 4. Clean the outer case with a cloth dampened with mild detergent and water.
 5. If the glass surface of the document table gets dirty, clean it with a soft dry cloth. If the glass surface is stained with grease or some other hard-to-remove material, use a small amount of glass cleaner and on a soft cloth to remove it. Wipe off all remaining liquid.

**Caution:**

Do not spray glass cleaner directly scanner glass.

6. Remove the document mat and clean the transparency unit window as described in step 4.



a. transparency unit window

Make sure that no dust builds up on the surface of the document table or the transparency unit window. Dust can cause spots in your scanned images.

Replacing the Scanner Light Source

The luminosity of the scanner light source declines over time. If the light source breaks or becomes too dim to operate normally, the scanner stops working and the Status light rapidly flashes. When this happens, the light source assembly must be replaced by a professional. For details, contact your dealer. See “Contacting Epson Support” on page 149 for more information.

Power Off Timer Setting

The product turns off automatically if no operations are performed for the selected period. You can adjust the time before power management is applied. Any increase will affect the product's energy efficiency. Please consider the environment before making any change.

Follow the steps below to adjust the time.

1. Make sure that the scanner is connected to your computer and that the scanner is turned on.
2. Start Epson Scan Settings.

Windows:

Start > All Programs or **Programs > EPSON > EPSON Scan > EPSON Scan Settings**

Mac OS X:

Select **Applications > EPSON Software > EPSON Scan Settings**.

3. Click **Power Off Timer**.
4. Set the Power Off Timer, and then click **OK**.

Note:

*If you want to turn off Power Off Timer, set the Power Off Timer to **0**.*

Transporting the Scanner

Before you transport the scanner for a long distance or store it for an extended period of time, the scanner's carriage needs to be in the home position to prevent damage.


1. Make sure the carriage is in the home position on the upper side of the scanner. If the carriage is not in the home position, turn on the scanner and wait until the carriage moves to the home position.
2. Turn off the scanner using its power switch, then unplug the AC power cord.
3. Disconnect the USB cable from the scanner.
4. On the back of the scanner, slide the transportation lock to the locked position to secure the scanner carriage.
5. Attach the packing materials that came with the scanner, then repack the scanner in its original box or a similar box that fits the scanner snugly.






Chapter 7

Troubleshooting

Scanner Problems

The Status Light Is Flashing

The green and orange status lights are on the left of the  PDF button and the blue status light is on the bottom of the four buttons.

Color	Indicator Status	Meaning
Green	 On	Power is on.
	 Flashing	Entering power saving mode.
Orange	 Flashing	<p>An error has occurred.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Make sure the scanner is connected to your computer properly. See the paper manual for instructions on connecting the scanner to your computer. <input type="checkbox"/> Make sure the scanner software is fully installed. See the paper manual for instructions on installing the scanner software. <input type="checkbox"/> Turn off the scanner using its power switch, then turn it on again. If the Status light is still flashing orange, the scanner may be malfunctioning, or the scanner light source may need to be replaced. See “Contacting Epson Support” on page 149 for details.
Blue	 Flashing	Initializing or scanning.
(None)	 Off	The scanner is off.

The Scanner Does Not Turn On

- ☐ Make sure your scanner's AC adapter is securely connected to the scanner and a working electrical outlet.
- ☐ Make sure the electrical outlet works. If necessary, test it by plugging in another electrical device and turning it on.

The Scanner Turns Off

- ❑ Make sure the Power Off Timer is set. For more details, see “Power Off Timer Setting” on page 133.

You Cannot Start Epson Scan

- ❑ Wait until the blue status light stops flashing to indicate that the scanner is ready to scan.
- ❑ Make sure the scanner is turned on.
- ❑ Turn off the scanner and computer, then check the interface cable connection between them to make sure it is secure.
- ❑ Use the USB cable that came with your scanner or that is indicated in “USB Interface” on page 163.
- ❑ Connect the scanner directly to the computer's USB port or through one USB hub only. The scanner may not work properly when connected to the computer through more than one USB hub.
- ❑ Make sure your computer supports USB.
- ❑ If you are using any TWAIN-compliant program, make sure that the correct scanner is selected as the Scanner or Source setting.
- ❑ If you upgraded your computer's operating system, you need to reinstall Epson Scan. Uninstall Epson Scan as described in “Uninstalling Your Scanning Software” on page 146, then reinstall it as described in the paper manual.

For Windows only:

Make sure your scanner's name appears under Imaging device without a (?) or an exclamation (!) mark in the Device Manager window. If the scanner's name appears with one of these marks or as an Unknown device, uninstall Epson Scan as described in “Uninstalling Your Scanning Software” on page 146, then reinstall it as described in the paper manual.

Pressing a Scanner Button Does Not Start the Correct Program

- ❑ Make sure Epson Scan is installed correctly.

- ❑ **Windows Vista and XP:** Click the **Events** tab in your scanner's Properties window and make sure **Take no action** is not selected. Also, make sure the desired button is selected in the Select an event list box, and **Start this program** is selected.
- ❑ **Mac OS X:** Make sure you are logged on as the user who installed the scanner software. Other users must first start Epson Scanner Monitor in the Applications folder and then press a button to scan.
- ❑ **Mac OS X 10.5.8:** Copy Utility is not supported for Mac OS X 10.5.8.

Scanning Problems

You Cannot Scan Using the Thumbnail Preview

- ❑ If you are using Full Auto Mode and Office Mode, the thumbnail preview is not available. Change the scan mode to Home Mode or Professional Mode. See "Changing the Scan Mode" on page 36 for instructions.
- ❑ If you are scanning images with a very dark or bright background, use normal preview and create marquees on the area you want to scan. See "Previewing and Adjusting the Scan Area" on page 54 for instructions.
- ❑ If you are scanning a film strip including both panoramic and regular size images, the panoramic images are not previewed. For the panoramic images, use normal preview and create marquees on the area you want to scan. See "Previewing and Adjusting the Scan Area" on page 54 for instructions.
- ❑ If you are scanning a large size document, use normal preview and create marquees on the area you want to scan. See "Previewing and Adjusting the Scan Area" on page 54 for instructions.
- ❑ Make sure the **Document Type** setting (Home Mode) or **Document Type** and **Film Type** settings (Professional Mode) are correct. See "Scanning in Home Mode" on page 44 or "Scanning in Professional Mode" on page 46 for instructions.
- ❑ Click **Configuration**, select the **Preview** tab, and adjust the thumbnail cropping area using the **Thumbnail Cropping Area** slider.
- ❑ If you are scanning in Home Mode and Illustration, Magazine, Newspaper or Text/Line Art is selected as Document Type, thumbnail preview is not available.

You Have Trouble Adjusting the Scan Area in the Thumbnail Preview

- ❑ Create a marquee or adjust the existing marquee to select the area you want to scan. See “Creating a Marquee on a Preview Image” on page 58 for instructions.
- ❑ Click **Configuration**, select the **Preview** tab, and adjust the thumbnail cropping area using the **Thumbnail Cropping Area** slider.
- ❑ Use the normal preview and create marquees on the area you want to scan. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.

Negative Film Preview Images Look Strange

- ❑ Make sure the **Document Type** setting (Home Mode) or **Film Type** settings (Professional Mode) are set correctly for your film. See “Scanning in Home Mode” on page 44 or “Scanning in Professional Mode” on page 46 for instructions.
- ❑ If you are in normal preview, the dark area around the film and the frame of the film holder is perceived as white. This alters the exposure and causes images to appear darker. Create marquees on the image area you want to scan, then click **Zoom** to preview the area. See “Previewing and Adjusting the Scan Area” on page 54 for instructions.
- ❑ Use thumbnail preview instead of normal preview. See “Previewing and Adjusting the Scan Area” on page 54 for instructions.

You Cannot Scan Multiple Images at One Time

Position photos at least 20 mm (0.8 inch) apart from each other on the document table.

You Cannot Scan in Full Auto Mode

- ❑ If you are scanning images with a very dark or bright background, switch to Office Mode, Home Mode, or Professional Mode. To change the scan mode, see “Changing the Scan Mode” on page 36. Then, use normal preview and create marquees on the area you want to scan. See “Previewing and Adjusting the Scan Area” on page 54 for instructions.
- ❑ If you are scanning a large size document, such as A4, switch to Office Mode, Home Mode, or Professional Mode. To change the scan mode, see “Changing the Scan Mode” on page 36. Then, use normal preview and create marquees on the area you want to scan. See “Previewing and Adjusting the Scan Area” on page 54 for instructions.

Scanning Takes a Longer Time

- ❑ Try scanning your original at a lower resolution setting to speed up scanning. See “Selecting the Scan Resolution” on page 51 for instructions.
- ❑ Computers with USB 2.0 (high speed) ports can scan faster than those with USB 1.1 ports. If you are using a USB 2.0 port with your scanner, make sure it meets the system requirements. See “System Requirements” on page 160 for details.
- ❑ If you scan using DIGITAL ICE Technology or Show Texture function, scanning takes a longer time.

You Cannot Scan Film or Slides

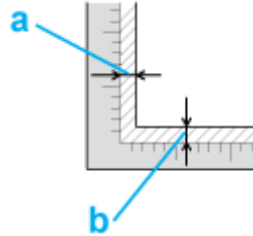
- ❑ Make sure the document mat is removed from the scanner cover. See “Removing the Document Mat” on page 22 for instructions.
- ❑ Make sure your film or slides are placed in the film holder correctly and the film holder is properly positioned on the document table. See “Placing Film or Slides” on page 22 for instructions.
- ❑ Make sure the **Document Type** setting (Home Mode) or **Film Type** settings (Professional Mode) are set correctly for your film/slide type. See “Scanning in Home Mode” on page 44 or “Scanning in Professional Mode” on page 46 for instructions.

Scan Quality Problems

The Edges of Your Original Are Not Scanned

- ❑ If you are scanning in Full Auto Mode, or using thumbnail preview in Home Mode or Professional Mode, move the document or photo about 6 mm (0.2 inch) away from the horizontal and vertical edges of the document table to avoid cropping.

- ❑ If you are scanning using normal preview in Office Mode, Home Mode, or Professional Mode, move the document or photo about 3 mm (0.12 inch) away from the horizontal and vertical edges of the document table to avoid cropping.



You See Only a Few Dots in Your Scanned Image

- ❑ Make sure the document or photo is placed on the document table with the side to be scanned facing down. See “Placing Documents or Photos” on page 19 for details.
- ❑ When scanning with the **Black&White** setting in Office Mode or Home Mode, or the **Black & White** setting in Professional Mode, change the **Threshold** setting. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.

A Line or Line of Dots Always Appears in Your Scanned Images

The document table or transparency unit window may need cleaning. Clean the document table. See “Cleaning the Scanner” on page 132.

If you still have the problem, the document table or transparency unit window may be scratched. Contact your dealer for assistance. See “Your Dealer” on page 153.

Straight Lines in Your Image Come Out Crooked

Make sure the document lies perfectly straight on the document table.

Your Image Is Distorted



- ☐ Make sure the document or photo lies flat on the document table. Also make sure your document or photo is not wrinkled or warped.
- ☐ Make sure you do not move the document or photo, or your scanner while scanning.
- ☐ Make sure the scanner is placed on a flat, stable surface.
- ☐ Select **Unsharp Mask** check box in Office Mode or Professional Mode window. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
- ☐ Adjust the **Auto Exposure** setting in Professional Mode window. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
- ☐ Click **Configuration**, select the **Color** tab, and select **Color Control** and **Continuous auto exposure**. See Epson Scan Help for details.
- ☐ Click **Configuration**, select the **Color** tab, and click **Recommended Value** to return the Auto Exposure setting to the default. See Epson Scan Help for details.
- ☐ Increase the resolution setting. See “Selecting the Scan Resolution” on page 51 for instructions.


Colors Are Patchy or Distorted at the Edges of Your Image



If your document is very thick or curled at the edges, cover the edges with paper to block external light as you scan.

Your Scanned Image Is Too Dark



- ☐ If your original is too dark, try using the **Backlight Correction** feature in Home Mode or Professional Mode. See “Fixing Backlit Photos” on page 93 for instructions.
- ☐ Check the **Brightness** setting in Office Mode, Home Mode, or Professional Mode. See Epson Scan Help for details.
- ☐ Click **Configuration**, select the **Color** tab, and change the **Display Gamma** setting to match your output device, such as a monitor or printer. See Epson Scan Help for details.
- ☐ Click **Configuration**, select the **Color** tab, and select **Color Control** and **Continuous auto exposure**. See Epson Scan Help for details.
- ☐ Click **Configuration**, select the **Color** tab, and click **Recommended Value** to return the Auto Exposure setting to the default. See Epson Scan Help for details.
- ☐ Click the  Histogram Adjustment icon in Professional Mode to adjust the brightness.
- ☐ Check the brightness and contrast settings of your computer monitor.

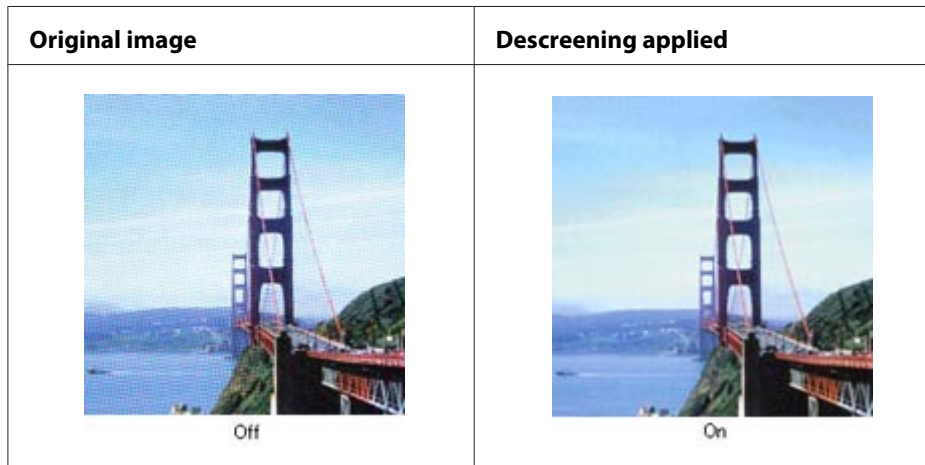
An Image on the Back of Your Original Appears in Your Scanned Image

If your original is printed on thin paper, images on the back may be visible to the scanner and appear in your scanned image.

- ☐ Try scanning the original with a piece of black paper placed on the back of it.
- ☐ Also check the scanning software settings such as image type and image adjustment.
- ☐ Try using Text Enhancement function.
See “Scanning in Home Mode” on page 44 or “Scanning in Office Mode” on page 42 for instructions.

Ripple Patterns Appear in Your Scanned Image

A ripple or cross-hatch pattern (called moiré) may appear in a scanned image of a printed document. It is caused by interference from the differing pitches in the scanner's screen and the halftone screen in your original.



- ☐ Select the **Descreening** check box in Office Mode, Home Mode, or Professional Mode. In Professional Mode, select an appropriate **Screen Ruling** for the Descreening and deselect the **Unsharp Mask** setting. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
- ☐ Select a lower resolution setting. See “Selecting the Scan Resolution” on page 51 for instructions.

Note:

You cannot remove ripple patterns when you are scanning film or monochrome images, or scanning using a resolution higher than 600 dpi.

Characters Are Not Recognized Well When Converted into Editable Text (OCR)

- ☐ Make sure the document lies perfectly straight on the document table.
- ☐ In Office Mode or Home Mode, select the **Text Enhancement** check box.
- ☐ Adjust the **Threshold** setting.

Office Mode or Home Mode: Select **Black&White** as the Image Type setting. Then try adjusting the **Threshold** setting. See “Converting Scanned Documents Into Editable Text” on page 129 for instructions.

Professional Mode: Click the + (Windows) or ► (Mac OS X) button next to **Image Type** and make the appropriate Image Option setting. Then try adjusting the **Threshold** setting. See “Converting Scanned Documents Into Editable Text” on page 129 for instructions.

- ❑ Check your OCR software manual to see if there are any settings you can adjust in your OCR software.

Scanned Colors Differ From the Original Colors


- ❑ Make sure the **Image Type** setting is correct. See “Scanning in Office Mode” on page 42, “Scanning in Home Mode” on page 44, or “Scanning in Professional Mode” on page 46 for instructions.
- ❑ Click **Configuration**, select the **Color** tab, and change the **Display Gamma** setting to match your output device, such as a monitor or printer, in the Color menu. See Epson Scan Help for details.
- ❑ Adjust the **Auto Exposure** setting in Professional Mode. Also try selecting a different **Tone Correction** setting. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.
- ❑ Click **Configuration**, select the **Color** tab, and select **Color Control** and **Continuous auto exposure** in the Color menu. See Epson Scan Help for details.
- ❑ Click **Configuration**, select the **Color** tab, and click **Recommended Value** to return the Auto Exposure setting to the default. See Epson Scan Help for details.
- ❑ Click **Configuration**, select the **Preview** tab, and turn on the **Quality Preview** setting in the Preview menu. See Epson Scan Help for details.
- ❑ Make sure to enable the **Embed ICC Profile** setting. In the File Save Settings window, select **JPEG** or **TIFF** as the Type setting. Click **Options**, then select the **Embed ICC Profile** check box. To access the File Save Settings window, see “Selecting File Save Settings” on page 48.
- ❑ Check the color matching and color management capabilities of your computer, display adapter, and software. Some computers can change the palette of colors on your screen. See your software and hardware manuals for details.
- ❑ Use the color management system for your computer: ICM for Windows, or ColorSync for Macintosh. Add a color profile that matches your monitor to improve on-screen color matching. Exact color matching is very difficult. Check your software and monitor documentation for information on color matching and calibration.

Note:


- ☐ In the Home Mode, when *Illustration, Magazine, Newspaper, Text/Line Art* is selected for the document type, EPSON sRGB is embedded even if other ICM/ColorSync setting is selected.
- ☐ In the Office Mode, EPSON sRGB is embedded even if other ICM/ColorSync setting is selected.
- ☐ In the Professional Mode, when *Document* is selected for the Auto Exposure type, EPSON sRGB is embedded even if other ICM/ColorSync setting is selected.
- ☐ Printed colors can never exactly match the colors on your monitor because printers and monitors use different color systems: monitors use RGB (red, green, and blue) and printers typically use CMYK (cyan, magenta, yellow, and black).

Striped Rings Appear in Your Scanned Image of Film or Slides Images

A ring-shaped pattern of stripes (called a Newton ring) sometimes appears on scanned images of transparent materials. This may occur if the film is curled.

Place the film or slides with the base side facing up and preview using thumbnail preview. Then flip the previewed image by clicking the  mirroring icon in the Preview window. See “Adjusting the Color and Other Image Settings” on page 61 for instructions.

Images are Rotated Incorrectly

- ☐ Make sure the documents or photos are placed on the document table correctly. See “Placing Documents or Photos” on page 19 for instructions.
- ☐ Make sure the film or slides are placed in the film holder correctly and the film holder is properly positioned on the document table. See “Placing Film or Slides” on page 22 for instructions.
- ☐ If you are scanning using thumbnail previews in Home Mode or Professional Mode, select the image and click the  rotation icon to rotate it. See “Previewing and Adjusting the Scan Area” on page 54 for instructions.
- ☐ Try disabling or enabling the **Auto Photo Orientation** setting.

Full Auto Mode: Click **Customize**, and select or deselect **Auto Photo Orientation**.

Home Mode or Professional Mode: Click **Configuration**, select the **Preview** tab, and select or deselect **Auto Photo Orientation**.

Note:

- ☐ *The Auto Photo Orientation feature will not work when you scan newspaper or magazine pages, documents, illustrations, or line art. The feature will also not work when you scan images that are 5.1 cm (2 inches) or smaller on any side.*
- ☐ *The Auto Photo Orientation feature may not work correctly if the faces in your image are very small or not looking straight ahead, or if the faces are of infants. The feature may also not work correctly if you scan an indoor image that contains no faces, an outdoor image in which the sky is not at the top, or any image containing bright spots or objects in locations other than the top of your image.*

Texture of document is not scanned in the scanned image

Select the **Show Texture** check box on the Other menu in the Configuration dialog box.

Note:

- ☐ *Show Texture increases scanning time.*
- ☐ *If you select the Show Texture check box after previewing, do preview again to confirm the effect of the Show Texture function.*
- ☐ *Show Texture is not available in Full Auto mode.*
- ☐ *Show Texture is not available when scanning films.*
- ☐ *DIGITAL ICE Technology is not available when the Show Texture check box is selected and reflective document is selected as Document Type.*
- ☐ *The Show Texture check box is cleared when you restart the Epson Scan.*

Uninstalling Your Scanning Software

You may need to uninstall and then reinstall your scanner software to solve certain problems or if you upgrade your operating system.

For Windows

Note:

- ☐ *For Windows 7 and Vista, you need an administrator account and password if you log on as a standard user.*

❑ *For Windows XP, you must log on to a Computer Administrator account.*

1. Turn off the scanner.
2. Disconnect the scanner's interface cable from your computer.
3. Do one of the following.

Windows 7 and Vista: Click the start button and select **Control Panel**.

Windows XP: Click **Start** and select **Control Panel**.

4. Do one of the following.

Windows 7 and Vista: Click **Uninstall a program** from the Programs category.

Windows XP: Double-click the **Add or Remove Programs** icon.

5. Select the software you want to uninstall such as EPSON Scan, your scanner's Manual, and the application from the list displayed.
6. Do one of the following.

Windows 7: Click **Uninstall/Change**.

Windows Vista: Click **Uninstall/Change**, and then click **Continue** in the User Account Control window.

Windows XP: Click **Change/Remove**.

7. When the confirmation window appears, click **Yes**.
8. Follow the on-screen instructions.

In some cases, a message may appear to prompt you to restart your computer. If so, make sure **I want to restart my computer now** is selected and click **Finish**.

For Mac OS X

Note:

- ❑ *To uninstall applications you must log on to a Computer Administrator account. You cannot uninstall programs if you log on as a Limited account user.*
- ❑ *You can download an uninstaller for the driver from <http://www.epson.com>. Next, select the support section of your local Epson Web site.*

Double-click the **Applications** folder in your Mac OS X hard drive, select the application you want to uninstall, and then drag it to the **Trash** icon.

Appendix A

Where To Get Help

Technical Support Web Site

Epson's Technical Support Web Site provides help with problems that cannot be solved using the troubleshooting information in your product documentation. If you have a Web browser and can connect to the Internet, access the site at:

<http://support.epson.net/>

If you need the latest drivers, FAQs, manuals, or other downloadables, access the site at:

<http://www.epson.com>

Then, select the support section of your local Epson Web site.

Contacting Epson Support

Before Contacting Epson

If your Epson product is not operating properly and you cannot solve the problem using the troubleshooting information in your product documentation, contact Epson support services for assistance. If Epson support for your area is not listed below, contact the dealer where you purchased your product.

Epson support will be able to help you much more quickly if you give them the following information:

- ☐ Product serial number
(The serial number label is usually on the back of the product.)
- ☐ Product model
- ☐ Product software version
(Click **About**, **Version Info**, or similar button in the product software.)
- ☐ Brand and model of your computer

- ☐ Your computer operating system name and version
- ☐ Names and versions of the software applications you normally use with your product

Help for Users in North America

Epson provides the technical support services listed below.

Internet Support

Visit Epson's support website at <http://epson.com/support> and select your product for solutions to common problems. You can download drivers and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

Dial: (562) 276-1300 (U.S.), or (905) 709-9475 (Canada), 6 am to 6 pm, Pacific Time, Monday through Friday. Days and hours of support are subject to change without notice. Toll or long distance charges may apply.

Before you call Epson for support, please have the following information ready:

- ☐ Product name
- ☐ Product serial number
- ☐ Proof of purchase (such as a store receipt) and date of purchase
- ☐ Computer configuration
- ☐ Description of the problem

Note:

For help using any other software on your system, see the documentation for that software for technical support information.

Purchase Supplies and Accessories

You can purchase genuine Epson ink cartridges, ribbon cartridges, paper, and accessories from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at <http://www.epsonstore.com> (U.S. sales) or <http://www.epson.ca> (Canadian sales).

Help for Users in Latin America

Electronic support services are available 24 hours a day at the following web sites:

Service	Access
World Wide Web	From the Internet, you can reach Epson's Latin American web site at http://www.latin.epson.com In Brazil, you can reach Epson at http://www.epson.com.br

To speak with a support representative, call one of the numbers below:

Country	Telephone number
Argentina	(54 11) 5167-0300
Brazil	(55 11) 3956-6868
Chile	(56 2) 230-9500
Colombia	(571) 523-5000
Costa Rica	(50 6) 2210-9555, (800) 377-6627
Mexico	(52 55) 1323-2052, 01-800-087-1080
Peru	(51 1) 418-0210
Venezuela	(58 212) 240-1111

Help for Users in Europe

Check your **Pan-European Warranty Document** for information on how to contact Epson support.

Help for Users in Taiwan

Contacts for information, support, and services are:

World Wide Web (<http://www.epson.com.tw>)

Information on product specifications, drivers for download, and products enquiry are available.

Epson HelpDesk (Phone: +0280242008)

Our HelpDesk team can help you with the following over the phone:

- ☐ Sales enquiries and product information
- ☐ Product usage questions or problems
- ☐ Enquiries on repair service and warranty

Repair service center:

Telephone number	Fax number	Address
02-23416969	02-23417070	No.20, Beiping E. Rd., Zhongzheng Dist., Taipei City 100, Taiwan
02-27491234	02-27495955	1F., No.16, Sec. 5, Nanjing E. Rd., Songshan Dist., Taipei City 105, Taiwan
02-32340688	02-32340699	No.1, Ln. 359, Sec. 2, Zhongshan Rd., Zhonghe City, Taipei County 235, Taiwan
039-605007	039-600969	No.342-1, Guangrong Rd., Luodong Township, Yilan County 265, Taiwan
038-312966	038-312977	No.87, Guolian 2nd Rd., Hualien City, Hualien County 970, Taiwan
03-4393119	03-4396589	5F., No.2, Nandong Rd., Pingzhen City, Taoyuan County 32455, Taiwan (R.O.C.)
03-5325077	03-5320092	1F., No.9, Ln. 379, Sec. 1, Jingguo Rd., North Dist., Hsinchu City 300, Taiwan
04-23011502	04-23011503	3F., No.30, Dahe Rd., West Dist., Taichung City 40341, Taiwan (R.O.C.)
04-23805000	04-23806000	No.530, Sec. 4, Henan Rd., Nantun Dist., Taichung City 408, Taiwan
05-2784222	05-2784555	No.463, Zhongxiao Rd., East Dist., Chiayi City 600, Taiwan
06-2221666	06-2112555	No.141, Gongyuan N. Rd., North Dist., Tainan City 704, Taiwan
07-5520918	07-5540926	1F., No.337, Minghua Rd., Gushan Dist., Kaohsiung City 804, Taiwan
07-3222445	07-3218085	No.51, Shandong St., Sanmin Dist., Kaohsiung City 807, Taiwan

Telephone number	Fax number	Address
08-7344771	08-7344802	1F., No.113, Shengli Rd., Pingtung City, Pingtung County 900, Taiwan

Help for Users in Australia

Epson Australia wishes to provide you with a high level of customer service. In addition to your product documentation, we provide the following sources for obtaining information:

Your Dealer

Don't forget that your dealer can often help identify and resolve problems. The dealer should always be the first call for advice on problems; they can often solve problems quickly and easily as well as give advice on the next step to take.

Internet URL <http://www.epson.com.au>

Access the Epson Australia World Wide Web pages. Worth taking your modem here for the occasional surf! The site provides a download area for drivers, Epson contact points, new product information and technical support (e-mail).

Epson Helpdesk

Epson Helpdesk is provided as a final backup to make sure our clients have access to advice. Operators on the Helpdesk can aid you in installing, configuring and operating your Epson product. Our Pre-sales Helpdesk staff can provide literature on new Epson products and advise where the nearest dealer or service agent is located. Many types of queries are answered here.

The Helpdesk numbers are:

Phone: 1300 361 054

Fax: (02) 8899 3789

We encourage you to have all the relevant information on hand when you ring. The more information you prepare, the faster we can help solve the problem. This information includes your Epson product documentation, type of computer, operating system, application programs, and any information you feel is required.

Help for Users in Singapore

Sources of information, support, and services available from Epson Singapore are:

World Wide Web (<http://www.epson.com.sg>)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), Sales Enquiries, and Technical Support via e-mail are available.

Epson HelpDesk (Phone: (65) 6586 3111)

Our HelpDesk team can help you with the following over the phone:

- ☐ Sales enquiries and product information
- ☐ Product usage questions or problems
- ☐ Enquiries on repair service and warranty

Help for Users in Thailand

Contacts for information, support, and services are:

World Wide Web (<http://www.epson.co.th>)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and e-mail are available.

Epson Hotline (Phone: (66)2685-9899)

Our Hotline team can help you with the following over the phone:

- ☐ Sales enquiries and product information
- ☐ Product usage questions or problems
- ☐ Enquiries on repair service and warranty

Help for Users in Vietnam

Contacts for information, support, and services are:

Epson Hotline
(Phone): 84-8-823-9239

Service Center: 80 Truong Dinh Street, District 1, Hochiminh City
Vietnam

Help for Users in Indonesia

Contacts for information, support, and services are:

World Wide Web (<http://www.epson.co.id>)

- ☐ Information on product specifications, drivers for download
- ☐ Frequently Asked Questions (FAQ), Sales Enquiries, questions through e-mail

Epson Hotline

- ☐ Sales enquiries and product information
- ☐ Technical support

Phone (62) 21-572 4350

Fax (62) 21-572 4357

Epson Service Center

Jakarta Mangga Dua Mall 3rd floor No 3A/B
Jl. Arteri Mangga Dua,
Jakarta

Phone/Fax: (62) 21-62301104

Bandung Lippo Center 8th floor
Jl. Gatot Subroto No.2
Bandung

Phone/Fax: (62) 22-7303766

Surabaya	Hitech Mall lt IIB No. 12 Jl. Kusuma Bangsa 116 – 118 Surabaya Phone: (62) 31-5355035 Fax: (62)31-5477837
Yogyakarta	Hotel Natour Garuda Jl. Malioboro No. 60 Yogyakarta Phone: (62) 274-565478
Medan	Wisma HSBC 4th floor Jl. Diponegoro No. 11 Medan Phone/Fax: (62) 61-4516173
Makassar	MTC Karebosi Lt. III Kav. P7-8 Jl. Ahmad Yani No.49 Makassar Phone: (62)411-350147/411-350148

Help for Users in Hong Kong

To obtain technical support as well as other after-sales services, users are welcome to contact Epson Hong Kong Limited.

Internet Home Page

Epson Hong Kong has established a local home page in both Chinese and English on the Internet to provide users with the following information:

- ☐ Product information
- ☐ Answers to Frequently Asked Questions (FAQs)
- ☐ Latest versions of Epson product drivers

Users can access our World Wide Web home page at:

<http://www.epson.com.hk>

Technical Support Hotline

You can also contact our technical staff at the following telephone and fax numbers:

Phone: (852) 2827-8911

Fax: (852) 2827-4383

Help for Users in Malaysia

Contacts for information, support, and services are:

World Wide Web (<http://www.epson.com.my>)

- ☐ Information on product specifications, drivers for download
- ☐ Frequently Asked Questions (FAQ), Sales Enquiries, questions through e-mail

Epson Trading (M) Sdn. Bhd.

Head Office.

Phone: 603-56288288

Fax: 603-56288388/399

Epson Helpdesk

- ☐ Sales enquiries and product information (Infoline)

Phone: 603-56288222

- ☐ Enquiries on repair services & warranty, product usage and technical support (Techline)

Phone: 603-56288333

Help for Users in India

Contacts for information, support, and services are:

World Wide Web (<http://www.epson.co.in>)

Information on product specifications, drivers for download, and products enquiry are available.

Epson India Head Office - Bangalore

Phone: 080-30515000

Fax: 30515005

Epson India Regional Offices:

Location	Telephone number	Fax number
Mumbai	022-28261515 /16/17	022-28257287
Delhi	011-30615000	011-30615005
Chennai	044-30277500	044-30277575
Kolkata	033-22831589 / 90	033-22831591
Hyderabad	040-66331738/ 39	040-66328633
Cochin	0484-2357950	0484-2357950
Coimbatore	0422-2380002	NA
Pune	020-30286000 /30286001/30286002	020-30286000
Ahmedabad	079-26407176 / 77	079-26407347

Helpline

For Service, Product info or to order a cartridge - 18004250011 (9AM - 9PM) - This is a Toll-free number.

For Service (CDMA & Mobile Users) - 3900 1600 (9AM - 6PM) Prefix local STD code

Help for Users in the Philippines

To obtain technical support as well as other after sales services, users are welcome to contact the Epson Philippines Corporation at the telephone and fax numbers and e-mail address below:

Trunk Line:	(63-2) 706 2609
Fax:	(63-2) 706 2665
Helpdesk Direct Line:	(63-2) 706 2625
E-mail:	epchelpdesk@epc.epson.com.ph

World Wide Web (<http://www.epson.com.ph>)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and E-mail Enquiries are available.

Toll-Free No. 1800-1069-EPSON(37766)

Our Hotline team can help you with the following over the phone:

- ☐ Sales enquiries and product information
- ☐ Product usage questions or problems
- ☐ Enquiries on repair service and warranty

Chapter B

Technical Specifications

System Requirements

Make sure your system meets the requirements in these sections before using it with your scanner.

Windows System Requirements

System	Microsoft Windows 8.1, Windows 8, Windows 7, Windows Vista, Windows XP, Windows XP x64
Interface	USB 2.0 (Type-B standard Connector)
Display	Color monitor with 1024 × 768 screen resolution or higher, and 24-bit (Full Color) color (Color and tone reproduction are subject to the display capability of your computer system, including the video card, display monitor, and software. See your system documentation for details.)

Macintosh System Requirements

System	Mac OS X 10.5.8, Mac OS X 10.6.x, OS X Lion (10.7.x), OS X Mountain Lion (10.8.x) or later. Fast User Switching on Mac OS X or later is not supported.
Interface	Macintosh USB
Display	Color monitor with 1024 × 768 screen resolution or higher, and millions of colors (Color and tone reproduction are subject to the display capability of your computer system, including the video card, display monitor, and software. See your system documentation for details.)

Note:

Epson Scan does not support the UNIX File System (UFS) for Mac OS X. You must install Epson Scan on a disk or in a partition that does not use UFS.

Scanner Specifications

Note:

Specifications are subject to change without notice.

General

Scanner type	Flatbed color
Photoelectric device	Color CCD line sensor
Effective pixels	54400 × 74880 pixels at 6400 dpi Scanning area may be restricted if resolution setting is large.
Document size	Reflective: 216 × 297 mm (8.5 × 11.7 inches) A4 or US letter size Transparent: 35 mm film strip: 12 frames at a time 35 mm slides: up to 4 slides at a time 6 cm medium format: up to 22 cm
Scanning resolution	6400 dpi (main scan) 9600 dpi with Micro Step (sub scan)
Output resolution	50 to 6400, 9600, and 12800 dpi (50 to 6400 dpi in 1 dpi increments)
Image data	16 bits per pixel per color internal 16 bits per pixel per color external (maximum)
Interface	One Hi-Speed USB/USB port
Light source	White LED, IR LED

Note:

Optional optical resolution is the maximum scan resolution of the CCD elements, using the definition of ISO 14473. ISO 14473 defines optical resolution as the fundamental sampling rate of the scan sensor.

Mechanical

Dimensions	Width: 280 mm (11.0 inches) Depth: 485 mm (19.1 inches) Height: 118 mm (4.6 inches)
Weight	Approx. 4.1 kg (9.0 lb) without AC adaptor

Electrical

Note:

Check the label on the AC adapter or on the back of the scanner for voltage information.

Scanner

Rated voltage	DC 24 V
Rated input current	1.3 A
Power consumption	16.5 W Operating 5.5 W Ready Mode 1.6 W Sleep Mode 0.4 W Power off

AC Adapter

	100-120 V model	220-240 V model
AC adapter model	A411B	A411E
Rated input voltage	AC 100 to 120 V	AC 220 to 240 V
Rated input current	1.0 A	0.5 A
Rated input frequency	50 to 60 Hz	
Rated output voltage	DC 24 V	
Rated output current	1.3 A	

Note:

The AC adapter model varies in certain locations.

Environmental

Temperature	Operating	10 to 35 °C (50 to 95 °F)
	Storage	–25 to 60 °C (–13 to 140 °F)
Humidity	Operating	10 to 80%, without condensation
	Storage	10 to 85%, without condensation

Operating conditions	Ordinary office or home conditions. Avoid operating the scanner in direct sunlight, near a strong light source, or in extremely dusty conditions.
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Interfaces

USB Interface

Interface type	Universal Serial Bus Specification Revision 2.0
Electrical standard	Full Speed mode (12 Mbits per second) and Hi-Speed mode (480 Mbits per second) of Universal Serial Bus Specification Revision 2.0.
Connector type	One Type B port

Standards and Approvals

Scanner

U.S. model:

EMC	FCC Part 15 Subpart B Class B CAN/CSA-CEI/IEC CISPR22 Class B
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European model:

EMC Directive 2004/108/EC	EN 55022 Class B EN 55024
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European model (for Russian users):

Модель соответствует требованиям нормативных документов	ГОСТ Р МЭК 60950-1-2009 ГОСТ Р 51318.22-99 (кл. Б) ГОСТ Р 51318.24-99 ГОСТ Р 51317.3.2-2006 (Разд 6, 7) ГОСТ Р 51317.3.3-2008
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Australian model:

EMC	AS/NZS CISPR22 Class B
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AC Adapter

U.S. model:

Safety	UL60950-1 CAN/CSA-C22.2 No. 60950-1
EMC	FCC Part 15 Subpart B Class B CAN/CSA-CEI/IEC CISPR22 Class B

European model:

Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC	EN 60950-1 EN 55022 Class B EN 55024 EN 61000-3-2 EN 61000-3-3
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Australian model:

Safety	AS/NZS 60950.1
EMC	AS/NZS CISPR22 Class B

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