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Epson Perfection V500 Office

User's Guide

This User's Guide is the on-screen guide to your Perfection V500 Office scanner. Click a topic below to get started.

Overview of Your Scanner Features

These features help you create the best possible scans, no matter what shape your original is in.

Guide to the Scanner Parts

Check this section to identify the parts of your scanner, read its light status, and use its buttons.

Placing Originals on the Scanner

Follow the steps here to place your original documents, photos, film strips, or slides on the scanner.

Scanning Documents or Photos

Follow the step-by-step instructions here to scan documents or photos using any of the available scanning methods.

Scanning Film or Slides

Follow the step-by-step instructions here to scan film strips or slides using any of the available scanning methods.

Scanning Special Projects

Follow the instructions here for specific scanning projects you may need to create.

Using the Optional Automatic Document Feeder

Follow the steps here to install the optional Automatic Document Feeder and use it to scan multi-page documents.

Maintenance

Follow the guidelines here to maintain and transport your scanner.

Solving Problems

If you have a problem using your scanner or its software, check here for solutions.

Technical Specifications

Check here for technical details about your scanner and its accessories.

- Safety
- Copyright and Trademarks
- Operating System Versions

Overview of Your Scanner Features

These features help you create the best possible scans, no matter what shape your original is in.

- **Color Restoration**
- **Dust Removal**
- **Digital ICE Technology and Digital ICE Lite Technology**
- **Backlight Correction**
- **Available Scanning Methods**

Guide to the Scanner Parts

Check these sections to identify the parts of your scanner, read its light status, and use its buttons.

Scanner Parts

Light and Buttons

Placing Originals on the Scanner

Follow the steps here to place your original documents, photos, film strips, or slides on the scanner.

Placing Documents or Photos

Placing Film or Slides

Scanning Documents or Photos

Follow the step-by-step instructions here to scan documents or photos using any of the available scanning methods.

Starting a Scan With the Scanner Buttons

Starting a Scan With Epson Scan

Starting a Scan With Another Scanning Program

Selecting Epson Scan Settings

Scanning Film or Slides

Follow the step-by-step instructions here to scan film strips or slides using any of the available scanning methods.

Starting a Scan With the Scanner Buttons

Starting a Scan With Epson Scan

Starting a Scan With Another Scanning Program

Selecting Epson Scan Settings

Scanning Special Projects

Follow these instructions for specific scanning projects you may need to create.

- Restoring Color
- Removing Dust Marks
- Removing Dust and Scratch Marks from Film and Slides Using Digital ICE Technology
- Fixing Backlit Photos
- Using the Scanner as a Copier
- Scanning Directly to a PDF File
- Scanning Directly to an E-mail
- Converting Scanned Documents Into Editable Text
- Scanning and Printing Color Accurate Images
- Assigning Another Windows Program to a Scanner Button

Using the Optional Automatic Document Feeder

Follow the steps here to install the optional Automatic Document Feeder and use it to scan multi-page documents.

- Unpacking the Automatic Document Feeder
- Installing the Automatic Document Feeder
- Loading Documents in the Automatic Document Feeder
- Scanning Using the Automatic Document Feeder
- Cleaning and Replacing the Paper Path Guide

Maintenance

Follow the guidelines here to maintain and transport your scanner.

Cleaning the Scanner

Replacing the Scanner Light Source

Transporting the Scanner

Solving Problems

Troubleshooting

If you have a problem using your scanner or its software, check here for solutions.

Reading the Status Light

Scanner Problems

Scanning Software Problems

Scan Quality Problems

Film or Slide Scanning Problems

Optional Automatic Document Feeder Problems

Uninstalling Your Scanning Software

Where To Get Help

Epson Technical Support

Technical Specifications

Check here for technical details about your scanner and its accessories.

System Requirements

Scanner Specifications

Optional Automatic Document Feeder Specifications

Important Safety Instructions

Restrictions on Copying

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 adapter meets the relevant local safety standards.

- The AC adapter cord should be placed to avoid abrasions, cuts, fraying, crimping, and kinking. Do not place objects on top of the adapter cord and do not allow the AC adapter or the cord to be stepped on or run over. Be particularly careful to keep the AC adapter cord 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 electrical outlet does not exceed the electrical outlet's ampere rating. Do not place multiple loads on the electrical outlet.
- 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.
- 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.
- **For United States users:**

WARNING:

The cords included with this product contain chemicals, including lead, known to the State of California to cause birth defects or other reproductive harm. **Wash hands after handling.** (provided in accordance with Proposition 65 in Cal. Health & Safety Code § 25249.5 et seq)

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.

A note concerning responsible use of copyrighted materials

Epson encourages each user to be responsible and respectful of the copyright laws when using any Epson product. While some countries' laws permit limited copying or reuse of copyrighted material in certain circumstances, those circumstances may not be as broad as some people assume. Contact your legal advisor for any questions regarding copyright law.

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Digital ICE is a trademark of Kodak.

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CPD-27555

Operating System Versions

In this manual, the following abbreviations are used.

Windows refers to Windows Vista, XP, XP x64, and 2000.

- Windows Vista refers to Windows Vista Ultimate Edition, Windows Vista Home Premium Edition, Windows Vista Home Basic Edition, Windows Vista Enterprise Edition and Windows Vista Business Edition.
- Windows XP refers to Windows XP Home Edition and Windows XP Professional.
- Windows XP x64 refers to Windows XP Professional x64 Edition.
- Windows 2000 refers to Windows 2000 Professional.

Macintosh refers to Mac OS X.

- Mac OS X refers to Mac OS X 10.3.9 - 10.5.x.

Color Restoration

Using the **Color Restoration** feature in your scanning software, 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.

Dust Removal

Using the **Dust Removal** feature in your scanning software, you can virtually “clean” the dust marks from your originals as you scan 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 film or slides that do not contain dust marks; otherwise your scanned image may be distorted or blurred.

For instructions on using this feature, see Removing Dust Marks.

For more accurate, hardware-based dust or scratch removal from your color film or slides, you can use the Digital ICE Technology feature. See Digital ICE Technology and Digital ICE Lite Technology for details.

Digital ICE Technology and Digital ICE Lite Technology

Your scanner and its Epson Scan software are equipped with the Digital ICE Technology and Digital ICE Lite Technology features that remove dust or scratch marks from color film or slides.

Original image	Digital ICE Technology applied

Digital ICE Technology is a hardware-based dust removal method that is more accurate than the Dust Removal feature. Digital ICE Technology can remove dust or scratch marks without affecting the image composition. However, it takes longer to scan using Digital ICE Technology and also uses more of your system resources. For faster (but less accurate) dust removal, try removing dust marks using the Dust Removal feature. See Dust Removal for details.

For instructions on using Digital ICE Technology to restore damaged images as you scan, see Removing Dust and Scratch Marks from Film and Slides Using Digital ICE Technology.

Note:

- You cannot use Dust Removal and Digital ICE Technology at the same time.
- You cannot use Digital ICE Technology when scanning printed photos on the document table.

Backlight Correction

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

Original image	Backlight Correction applied

For instructions on using this feature, see Fixing Backlit Photos .

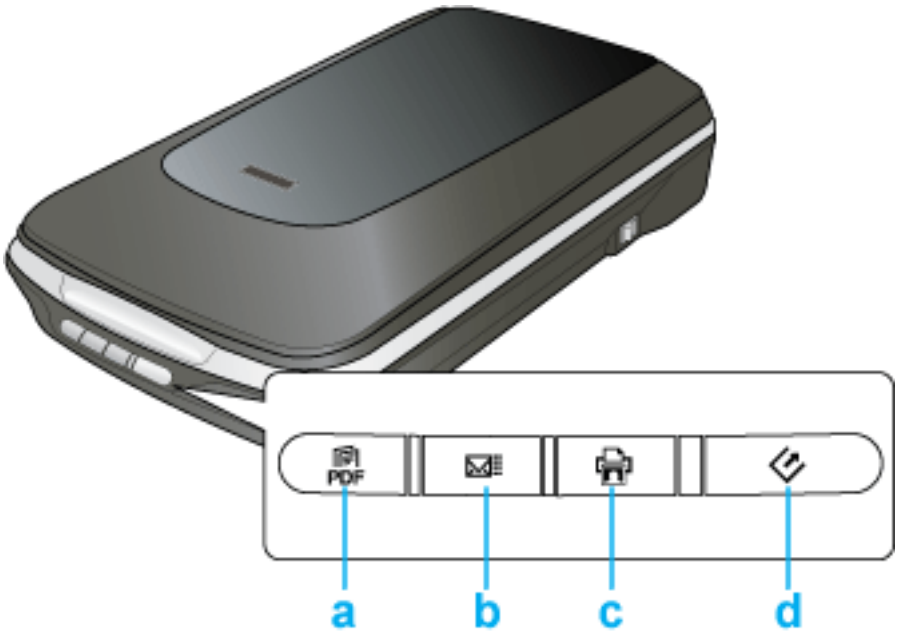
Available Scanning Methods

Using the Scanner Buttons
Using Epson Scan

Your scanner gives you a variety of ways to scan images. You can select the method that works best for the project you are scanning and the way you like to work.

Using the Scanner Buttons

The buttons on the scanner let you automatically open scanning software and scan your image to a program or file.



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

Documents or photos: See Starting a Scan With the Scanner Buttons.

Film or slides: See Starting a Scan With the Scanner Buttons.

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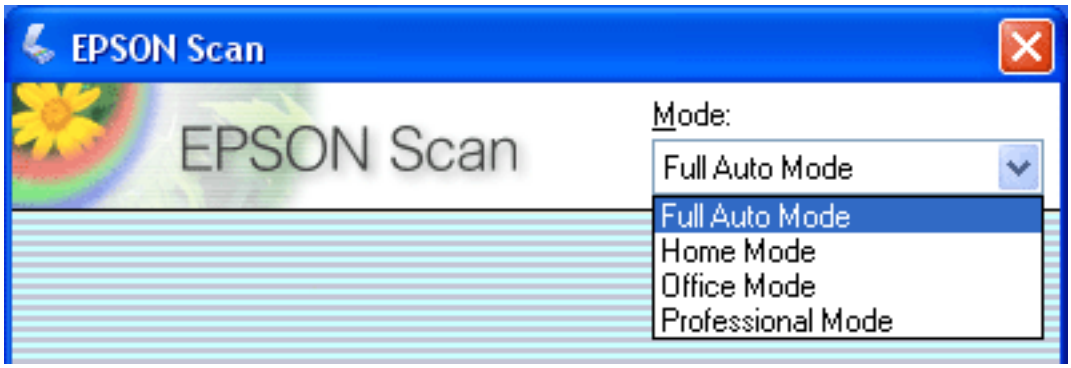
Using Epson Scan



Epson Scan lets you control all aspects of scanning and includes four modes.

- **Full Auto Mode** lets you scan quickly and easily, without selecting any settings or previewing your image. This is the default mode in Epson Scan.
- **Home Mode** lets you customize some scanning settings and check their effects with a preview image.
- **Office Mode** lets you quickly select settings for scanning text documents and check their effects with a preview image.
- **Professional Mode** gives you total control of your scanning settings and lets you check their effects with a preview image.

You can use Epson Scan as a “standalone” program to scan your image to a file on your computer.

- **Documents or photos:** See Starting a Scan With Epson Scan.
- **Film or slides:** See Starting a Scan With Epson Scan.

You also use Epson Scan whenever you scan with another TWAIN-compliant program, such as Adobe Photoshop Elements.

- **Documents or photos:** See Starting a Scan With Another Scanning Program.
- **Film or slides:** See Starting a Scan With Another Scanning Program.

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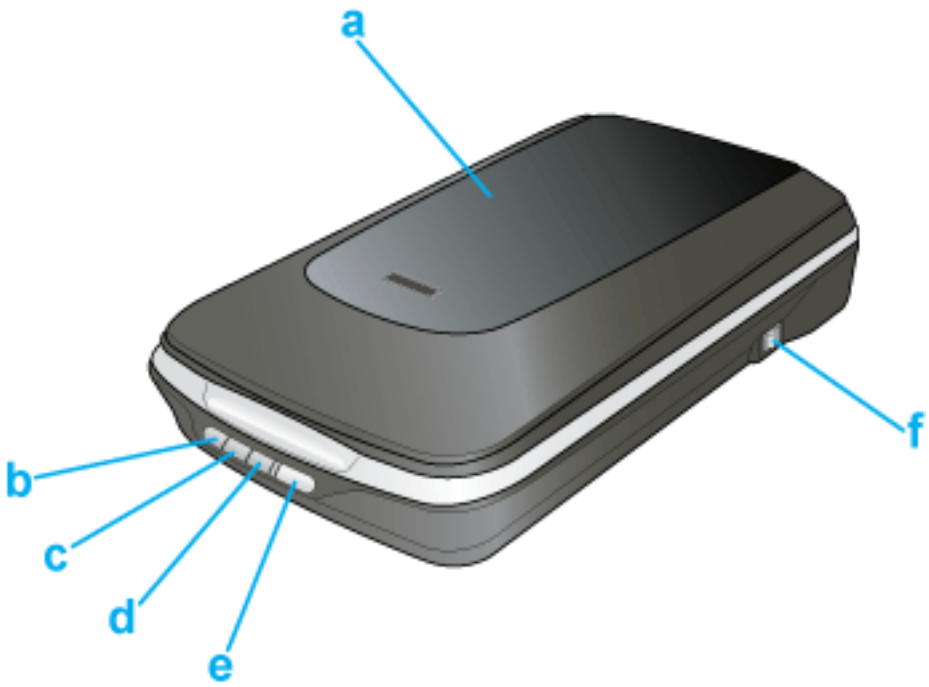
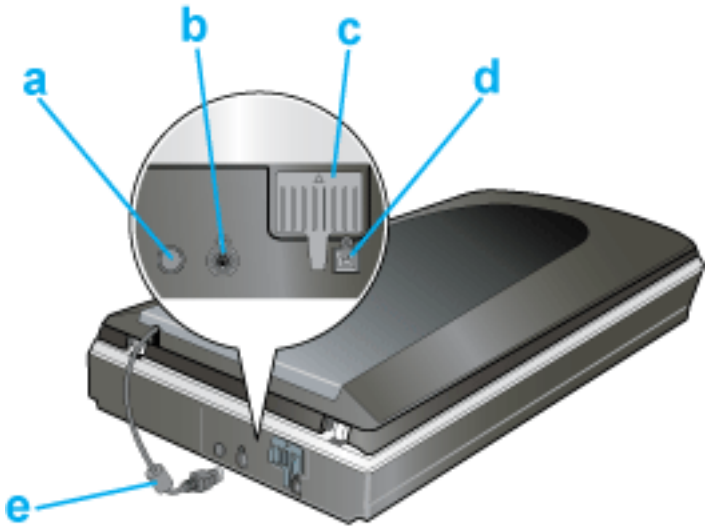
Scanner Parts



a. scanner cover
b. Scan to PDF button
c. Scan to E-mail button
d. Copy button
e. Start button
f. power switch

a. document mat
b. transparency unit transportation lock
c. document table
d. carriage



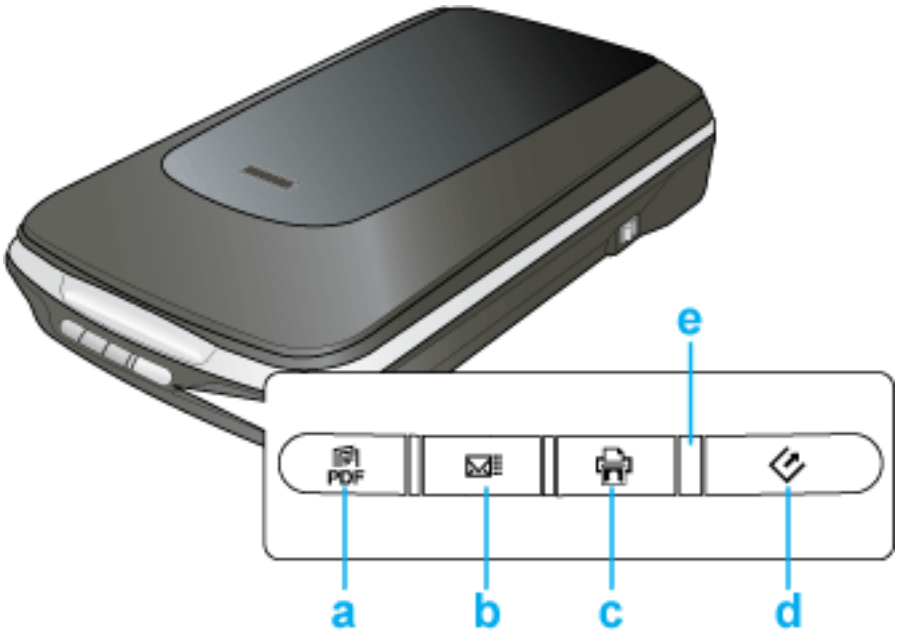
a. DC inlet
b. OPTION port

c. scanner transportation lock
d. USB interface connector
e. cover cable

Light and Buttons

Light
Buttons

The scanner has four buttons for scanning operations. The status light indicates whether the scanner is operating normally.



a. Scan to PDF button
b. Scan to E-mail button
c. Copy button
d. Start button
e. status light

Light

The status light is next to the Start button.

Color	Indicator Status	Meaning
Green	On	Ready to scan images.
	Flashing	Initializing or scanning.
Orange	Flashing	An error has occurred. See Reading the Status Light for more information.
(None)	Off	The scanner is off.

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Buttons

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

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

Documents or photos: See Starting a Scan With the Scanner Buttons.

Film or slides: See Starting a Scan With the Scanner Buttons.

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Placing Documents or Photos

Placing Large or Thick Documents

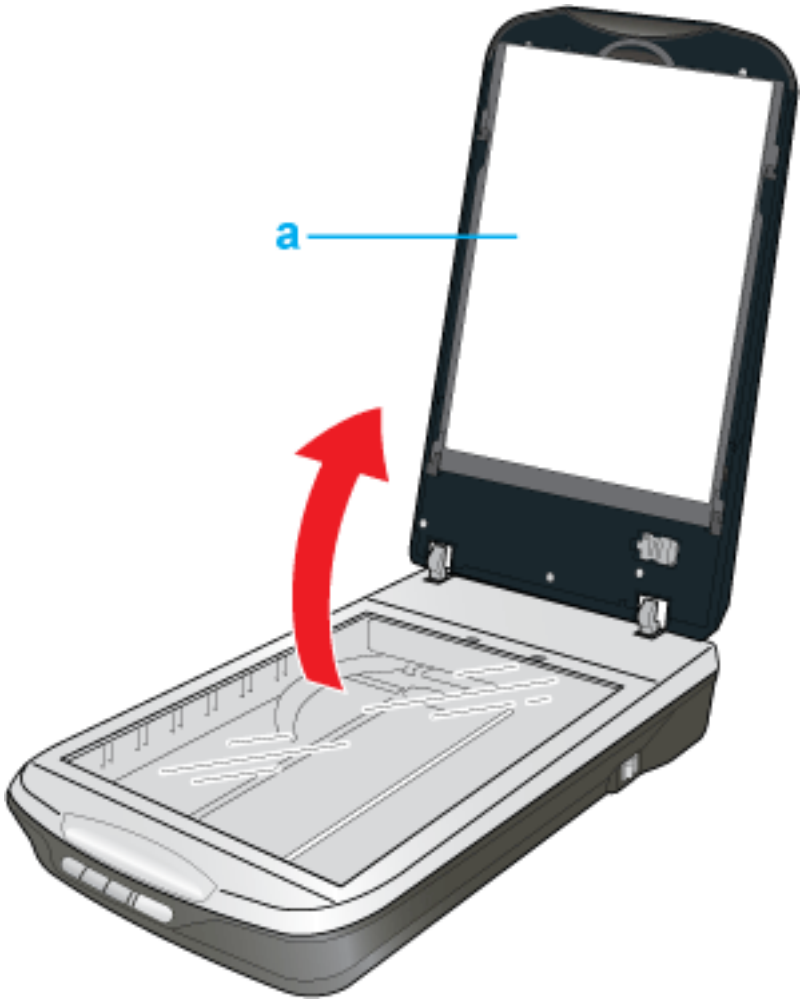
Before scanning a document, remember to respect the rights of copyright owners. Do not scan published text or images without first checking their copyright status.

Caution:

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

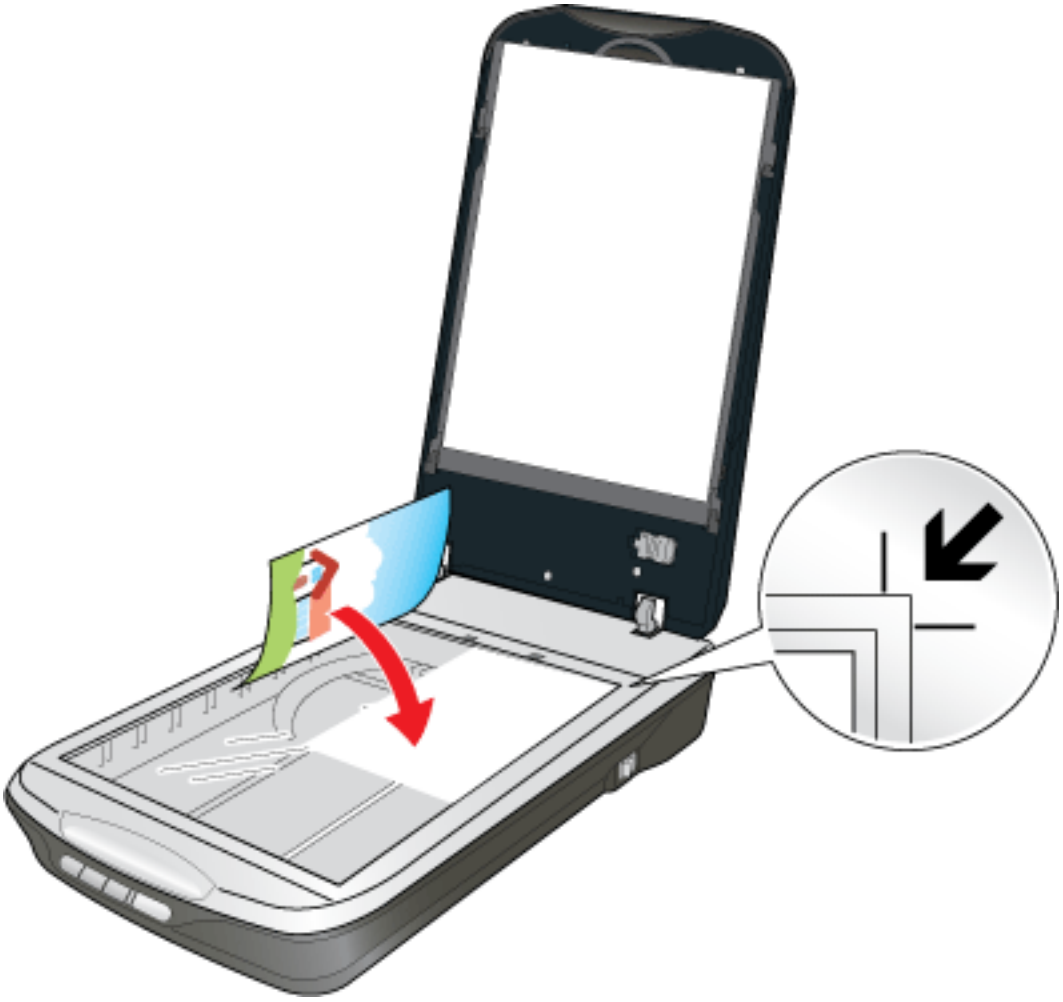
1. Open the scanner cover.

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

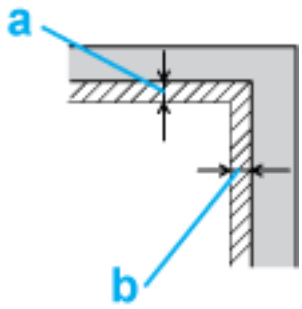


a. document mat

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



3 An area 0.12 inch (3 mm) from the horizontal and the vertical sides of the scanner glass cannot be scanned. If you place a document in the corner of the document table, move it down and in slightly to avoid cropping.



a., b. Maximum unreadable area of 0.12 inch (3 mm)

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

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

Note:

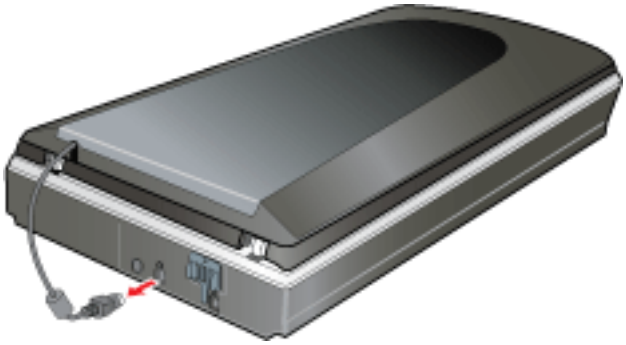
- Always keep the document table clean.
- Do not leave photos on the document table for an extended period of time as they may stick to the glass.

To scan your document or photo, see Starting a Scan With the Scanner Buttons.

Placing Large or Thick Documents

When you scan a large or thick document, you can remove the scanner cover.

1. Turn off the scanner using its power switch.
2. Disconnect the cover cable.



3 Open the scanner cover.

4 Pull the scanner cover straight up and off the scanner.

5 Turn on the scanner using its power switch.

Note:

When scanning without the scanner cover, gently press down on your document to flatten it.

6 When you are finished scanning, replace the scanner cover in the reverse order that you removed it.

Note:

Before connecting or disconnecting the cover cable, turn off the scanner using its power switch.

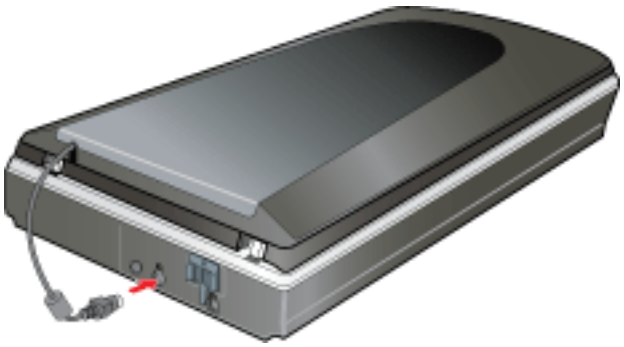
Placing Film or Slides

Removing the Document Mat
Placing Slides in the Holder
Placing Film in the Holder
Replacing the Document Mat

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 Make sure the cover cable is connected to the scanner's **OPTION** port.

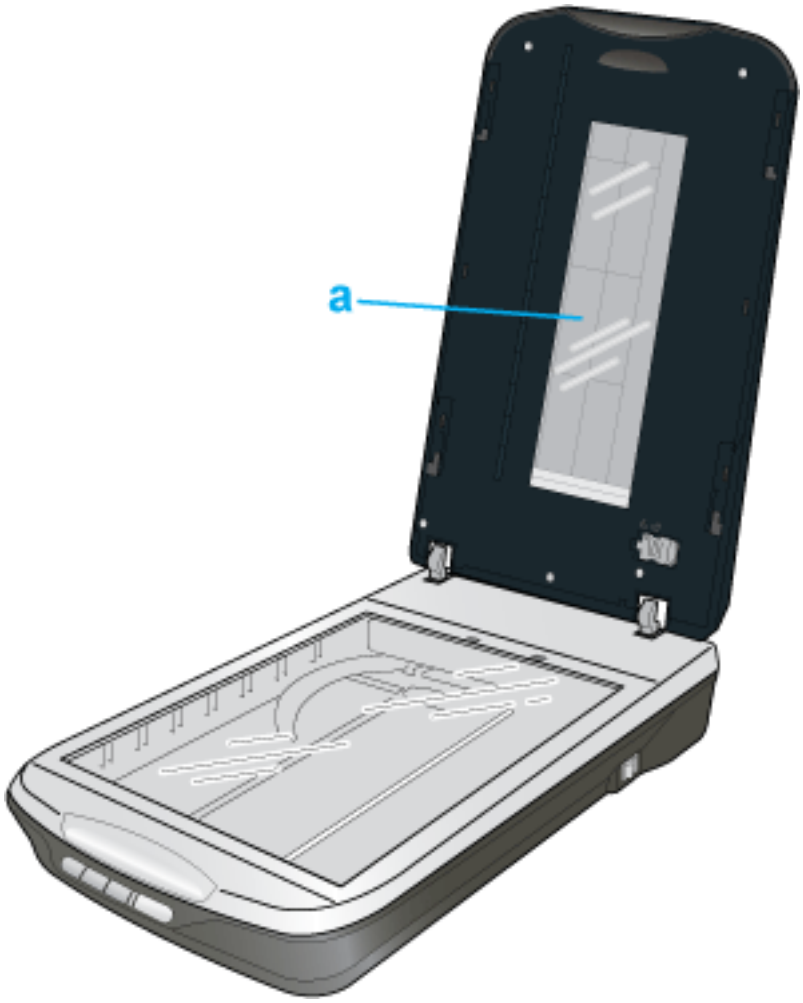


Note:

Before connecting or disconnecting the cover cable, turn off the scanner using its power switch.

2 Open the scanner cover and gently slide up the document mat to remove it. Also make sure the transparency unit transportation lock is unlocked.

3 Use a soft microfiber 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.

To place slides for scanning, see Placing Slides in the Holder.

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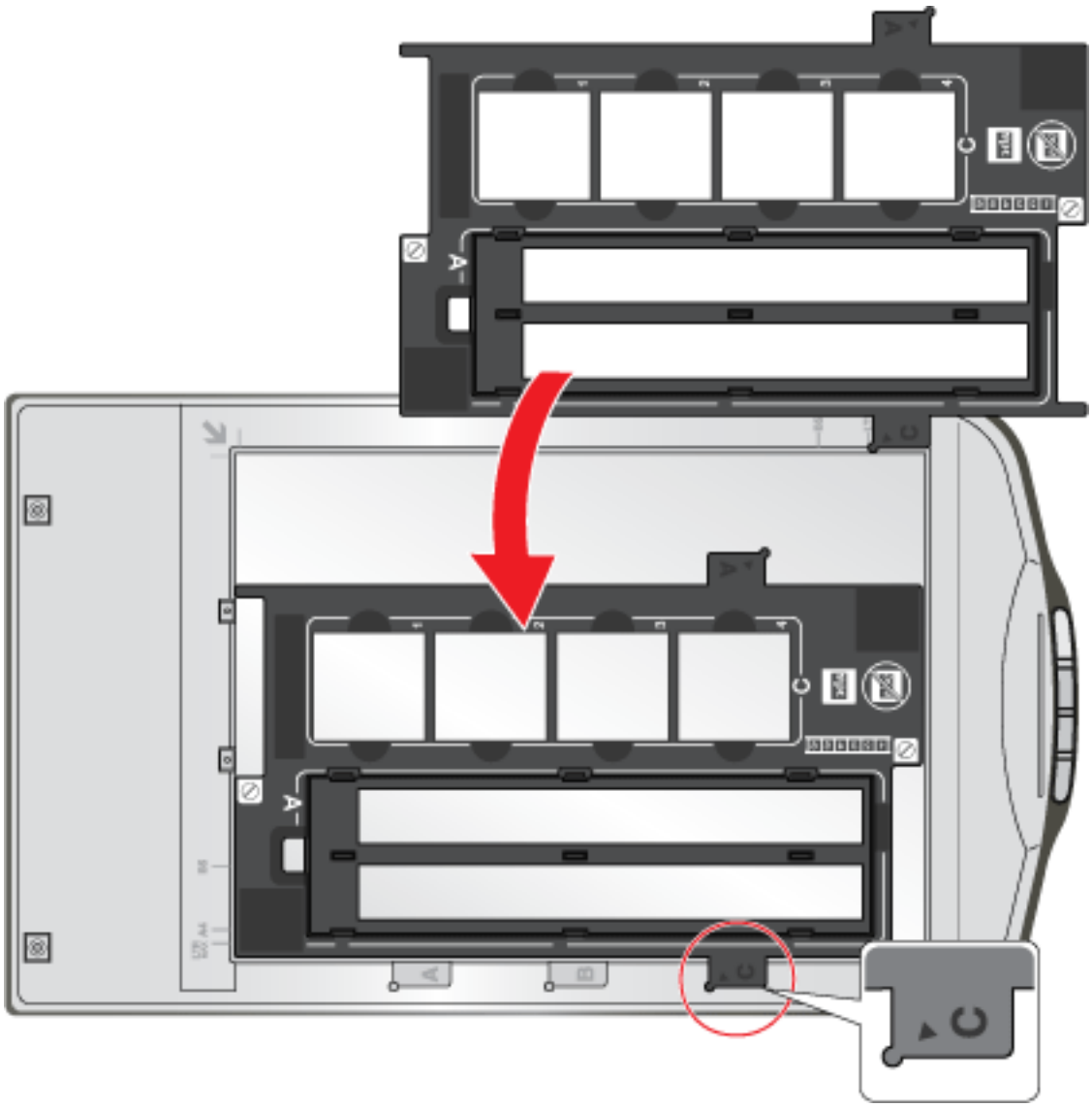
Placing Slides in the Holder

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

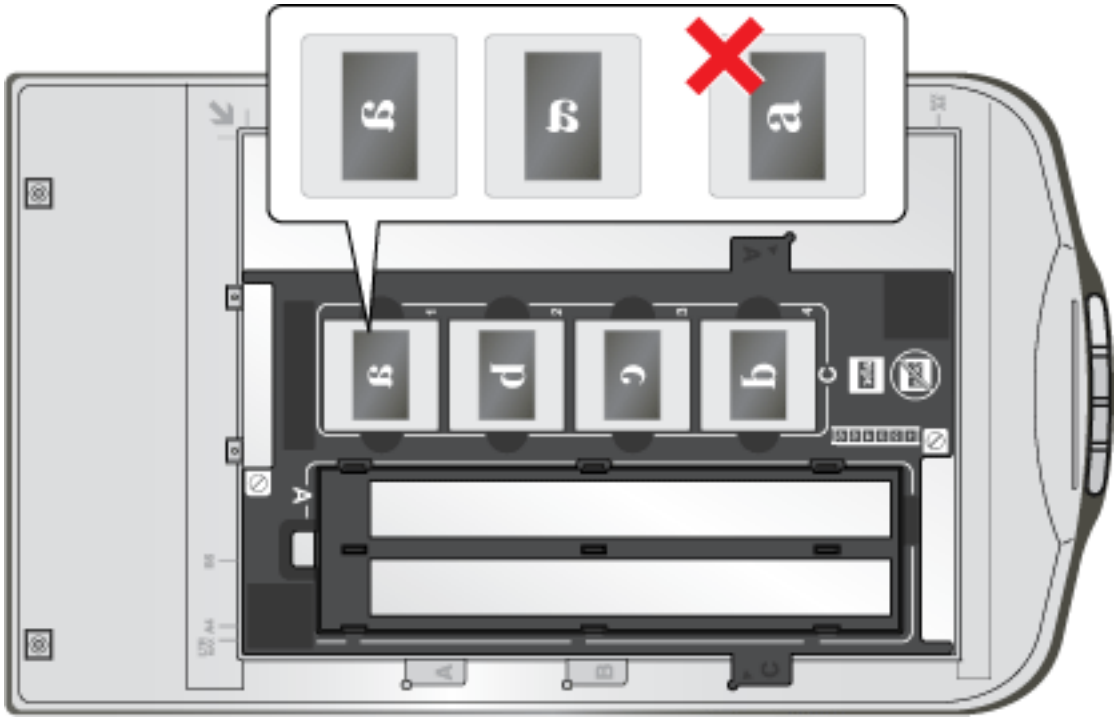
Note:

- 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.
- Do not cover any of the small holes in the film holder or the slots on the sides of 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.



3 Make sure you removed the document mat. See Removing the Document Mat.

4 Close the scanner cover.

To scan your slides, see Starting a Scan With the Scanner Buttons.

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

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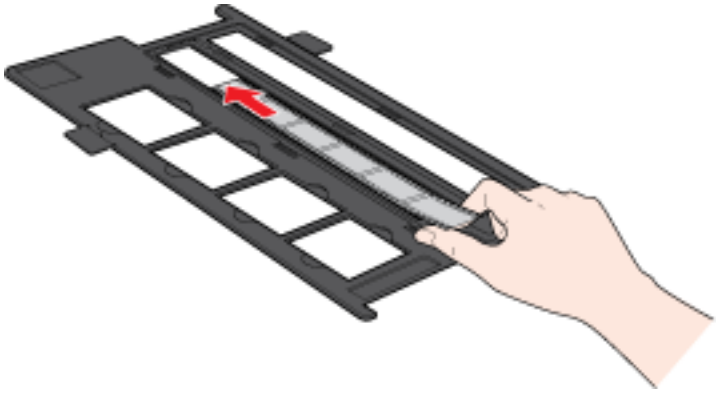
Placing Film in the Holder

Placing 35mm Film Strips

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

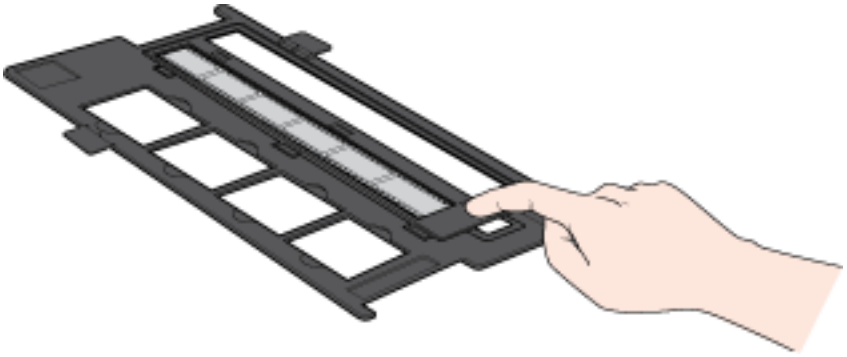
2 Slide one or two film strips all the way into the film holder with the shiny base side facing down. Your images and any wording on the film strips should appear backwards on the side that faces up. You can scan up to 6 standard 35mm images per film strip.



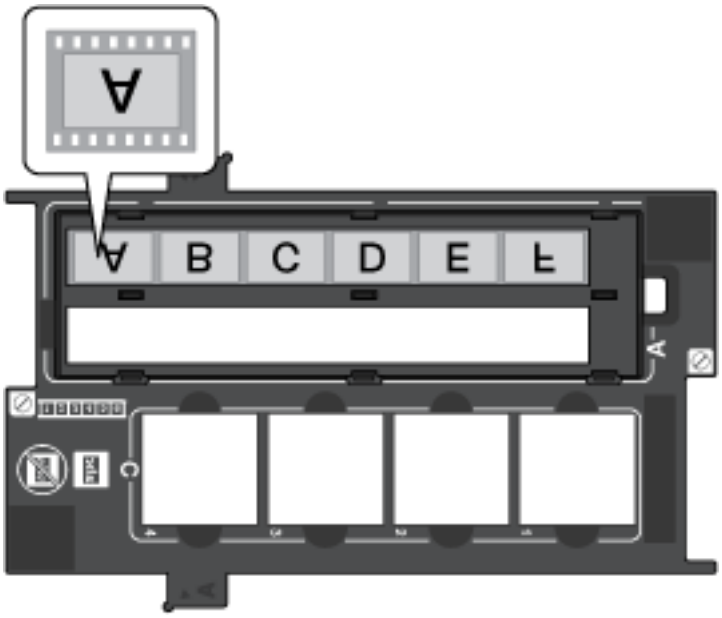
Note:

- Hold the edge of the film gently when touching 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.
- Do not cover any of the small holes in the film holder or the slots on the sides of the film holder.

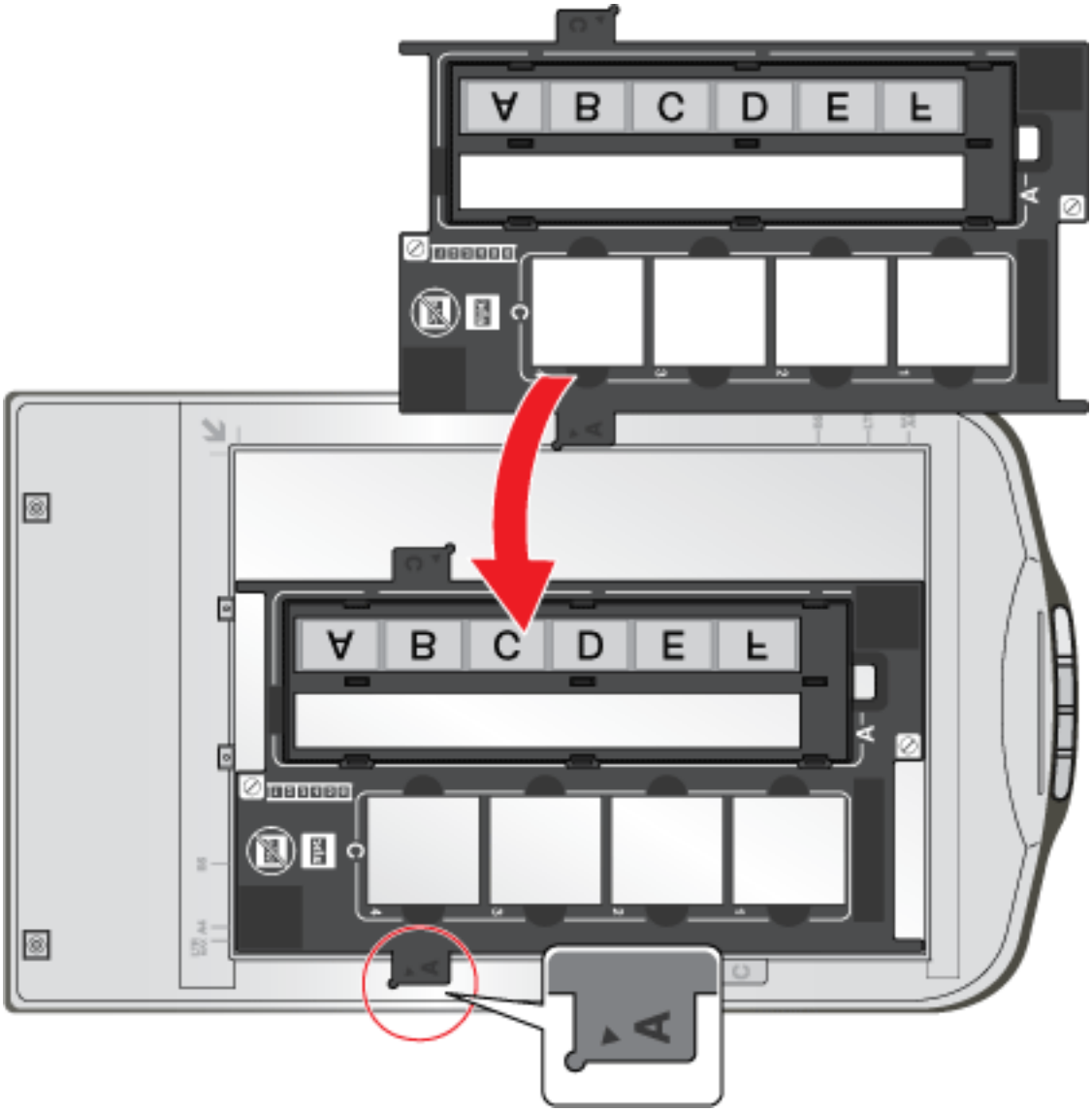
3 Close the cover and press it down until you hear a click. Then press down on all the edges of the cover to secure it. Make sure the cover is properly seated and closed all the way.



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.

7 Close the scanner cover.

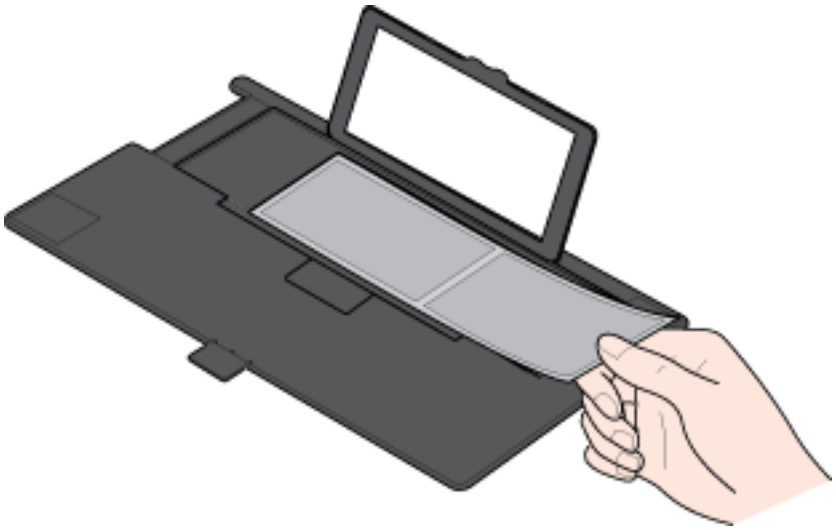
To scan your film, see Starting a Scan With the Scanner Buttons.

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

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.

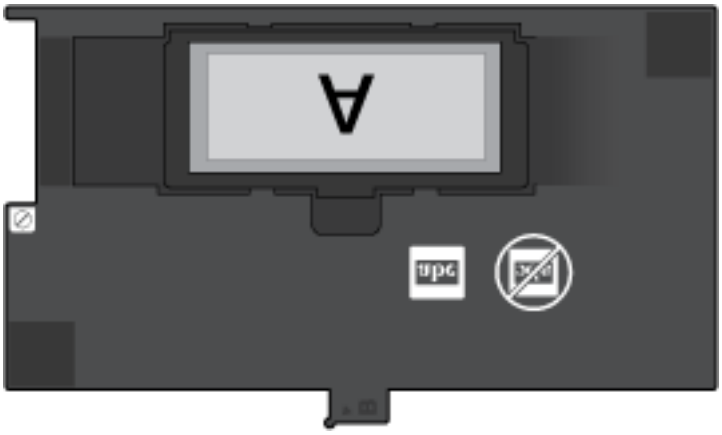


Note:

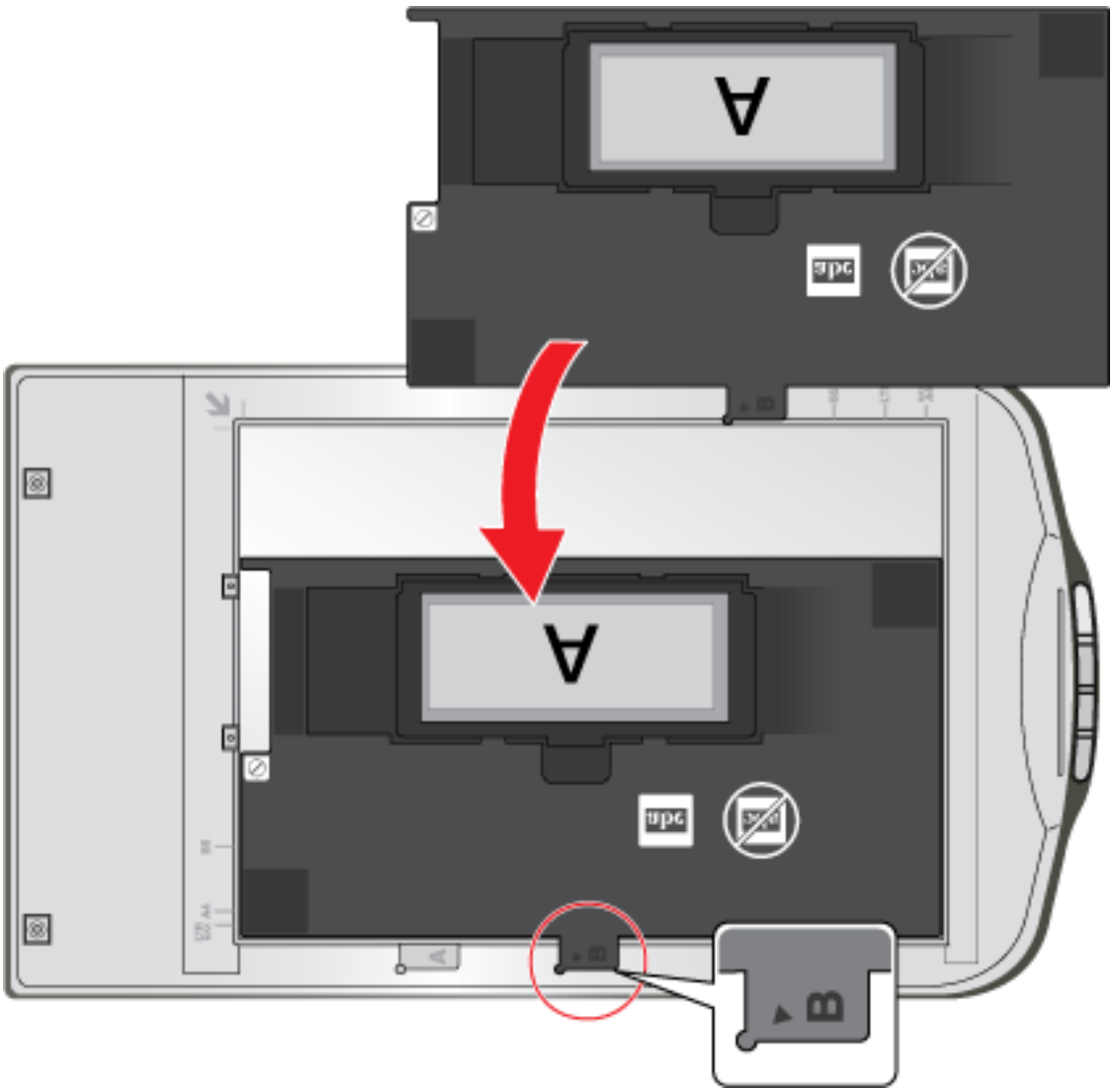
- Hold the edge of the film gently when touching the film; otherwise you may damage the film.
- Do not cover any of the small holes in the film holder or the slot on the side of the film holder; otherwise, the scanner may have trouble recognizing which film holder you are using.

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 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 “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.

7 Close the scanner cover.

Note:

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

To scan your film, see Starting a Scan With the Scanner Buttons.

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

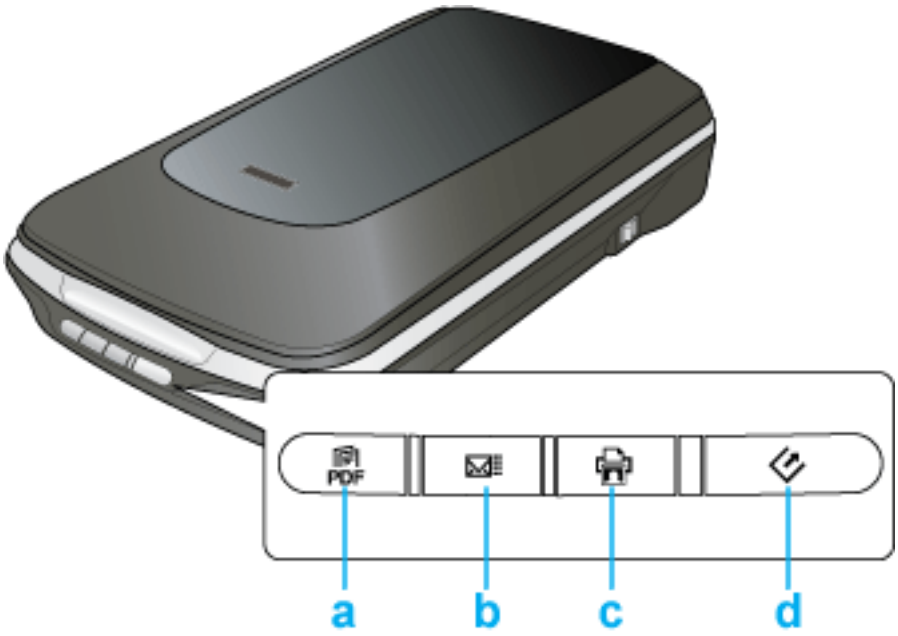
Top

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.

Top

Starting a Scan With the Scanner Buttons



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

Start button

1. Place your original document or photo on the scanner. See Placing Documents or Photos.

2. To start a scan, press the Start button on the scanner. Your computer automatically starts Epson Scan.

3. From Epson Scan, you can select a scan mode and then scan and save your image to a file on your computer. If the Mode box in the upper right corner of the window is set to **Full Auto Mode**, see Using Full Auto Mode for instructions. If you are in Home or Professional Mode, see Selecting Basic Settings. If you are in Office Mode, click the **Help** button in the Epson Scan window for instructions on scanning using this mode.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not

Start the Correct Program.

If you want to change the scan mode, see Changing the Scan Mode.

Scan to PDF button

1. Place your original document or photo on the scanner. See Placing Documents or Photos.
2. To start a scan and save it as a PDF file on your computer, press the Scan to PDF button, then see Scanning Directly to a PDF File for instructions.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

Copy button

1. Place your original document or photo on the scanner. See Placing Documents or Photos.
2. To use the scanner as a copier and automatically scan and print your image, you can press the Copy button. Your computer automatically starts the Copy Utility. See Using the Scanner as a Copier for instructions.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

Scan to E-mail button

1. Place your original document or photo on the scanner. See Placing Documents or Photos.
2. To scan an image and open your e-mail program so you can attach it to an e-mail message, you can press the Scan to E-mail button. Epson Scan automatically starts scanning. See Scanning Directly to an E-mail for instructions.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

Starting a Scan With Epson Scan

If you want to scan an image and save it directly to a file, you can start Epson Scan as a “standalone” program.

1. Place your original document or photo on the scanner. See Placing Documents or Photos.

2. Do one of the following to start Epson Scan.

   Windows:
   Double-click the **EPSON Scan** icon on your desktop.

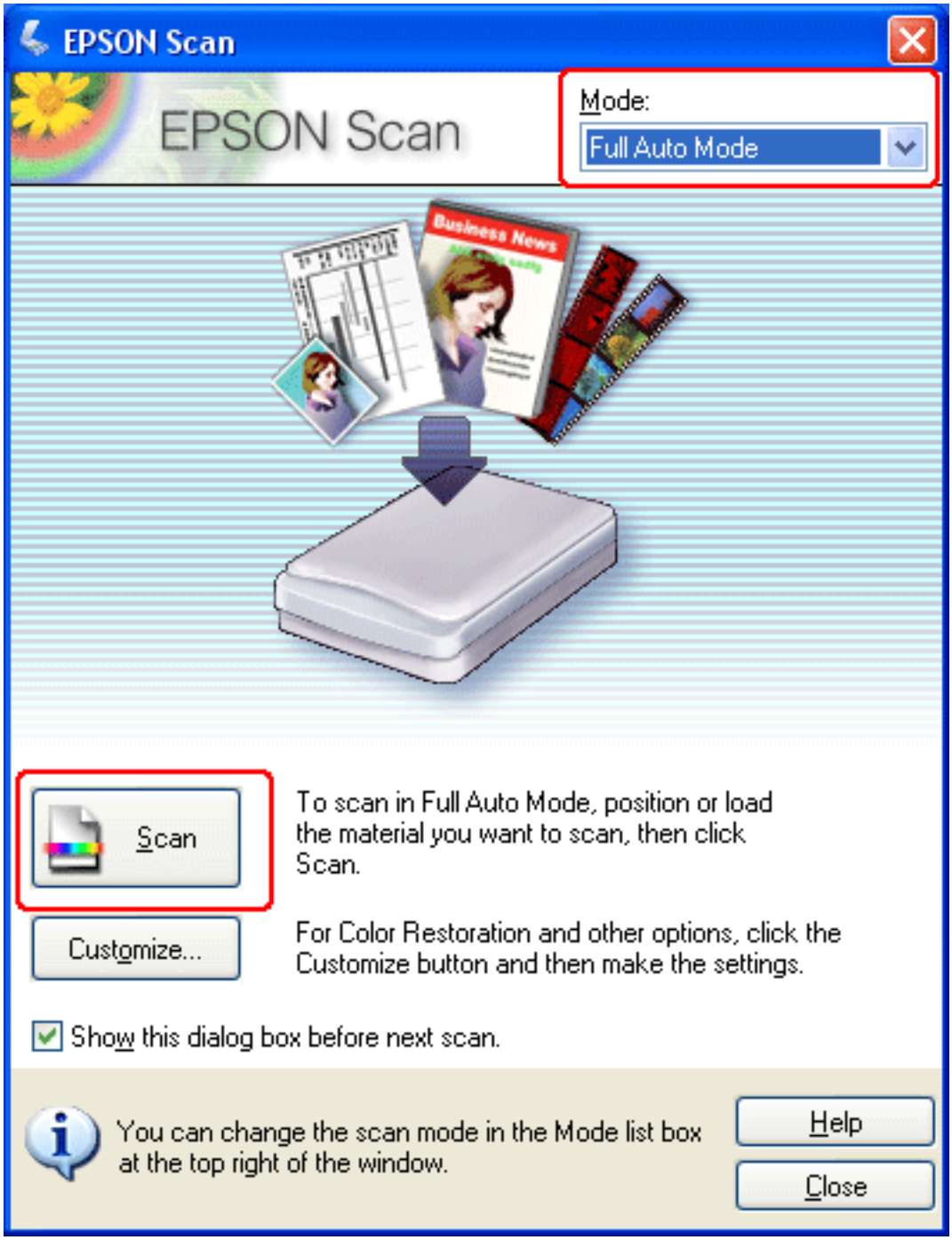
   Or select or **Start > All Programs** or **Programs > EPSON > EPSON Scan > EPSON Scan**.

   Mac OS X:
   Open the **Applications** folder and double-click the **EPSON Scan** icon.

   The Epson Scan window appears.

3. Do one of the following, depending on the scan mode you are using.

   - **Full Auto Mode**
     If the Mode box in the upper right corner of the window is set to **Full Auto Mode**, click the **Scan** button. Epson Scan automatically scans the image and saves it as a JPEG file in the Pictures or My Pictures folder. For instructions on selecting optional settings, see Using Full Auto Mode.



- **Home or Professional Mode**
  If the Mode box in the upper right corner of the window is set to Home or Professional Mode, see Selecting Basic Settings for instructions.
- **Office Mode**
  If the Mode box in the upper right corner of the window is set to Office Mode, click the **Help** button in the Epson Scan window for instructions.

Note:

If you want to change the scan mode, see Changing the Scan Mode.

Starting a Scan With Another Scanning Program

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

Note:

Not all versions of Photoshop Elements are fully compatible with Windows Vista. If you are using Windows Vista, you may need to upgrade to the latest version of Photoshop Elements.

1. Place your original document or photo on the scanner. See Placing Documents or Photos.

2. Start your scanning program.

   Double-click the program icon from your desktop, if it is available, or do one of the following.

   Windows:

   Select or **Start > All Programs** or **Programs >** *program folder* **>** *program icon*.

   Mac OS X:
   Open the **Applications** folder, select the *program folder*, and double-click the *program icon*.

3. Select your program's scanning option. (See your scanning program help for instructions.)

   In some programs, you must select the scanner as the "source" first. If you see a **Select Source** option, choose it and select your scanner there first.

   If you're using Photoshop Elements, do one of the following.

Windows:
Click **Edit and Enhance Photos**, then open the **File** menu and select **Import**.

Mac OS X:
Click **Close** in the Welcome window (if it appears), then open the **File** menu and select **Import**.

Note:

You can also scan using the **Start From Scratch** or **Quickly Fix Photos** options in Photoshop Elements. See the Photoshop Elements Help utility for instructions.

4 Select **EPSON Perfection V500**.

Note for Windows Vista and XP users:

Do not choose a **WIA** option for your scanner from the Import or Acquire list; you will not be able to use all the features of your scanner.

5 Epson Scan starts automatically. For instructions on using it, see Selecting Epson Scan Settings.

Selecting Epson Scan Settings

- Overview of the Epson Scan Modes
- Selecting File Save Settings
- Using Full Auto Mode
- Changing the Scan Mode
- Selecting Basic Settings
- Selecting the Scan Resolution
- Previewing and Adjusting the Scan Area
- Adjusting the Color and Other Image Settings
- Selecting the Scan Size
- Finishing the Scan

Overview of the Epson Scan Modes

Epson Scan lets you control all aspects of scanning and includes three modes.

- **Full Auto Mode** lets you scan quickly and easily, without selecting any settings or previewing your image. This is the default mode in Epson Scan.

  Full Auto Mode is best when you need to scan documents or photos at 100% size and you do not need to preview the images before scanning. You can restore faded colors or remove dust marks by clicking the **Customize** button.

  See Using Full Auto Mode for instructions on scanning in this 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 photos, film, or slides 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, Digital ICE Technology (for color film and slides only), and backlight correction.

  See Changing the Scan Mode for instructions on switching to Home Mode.

  See Selecting Basic Settings for scanning steps.

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

See Changing the Scan Mode for instructions on switching to Office Mode.

For instructions on scanning using this mode, select Office Mode and then click the **Help** button in the Epson Scan window.

- **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, Digital ICE Technology (for color film and slides only), and backlight correction.

  See Changing the Scan Mode for instructions on switching to Professional Mode.

  See Selecting Basic Settings for scanning steps.

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Selecting File Save Settings

When you see the File Save Settings window, you need to select the location, name, and format of the scanned image file you want to save.

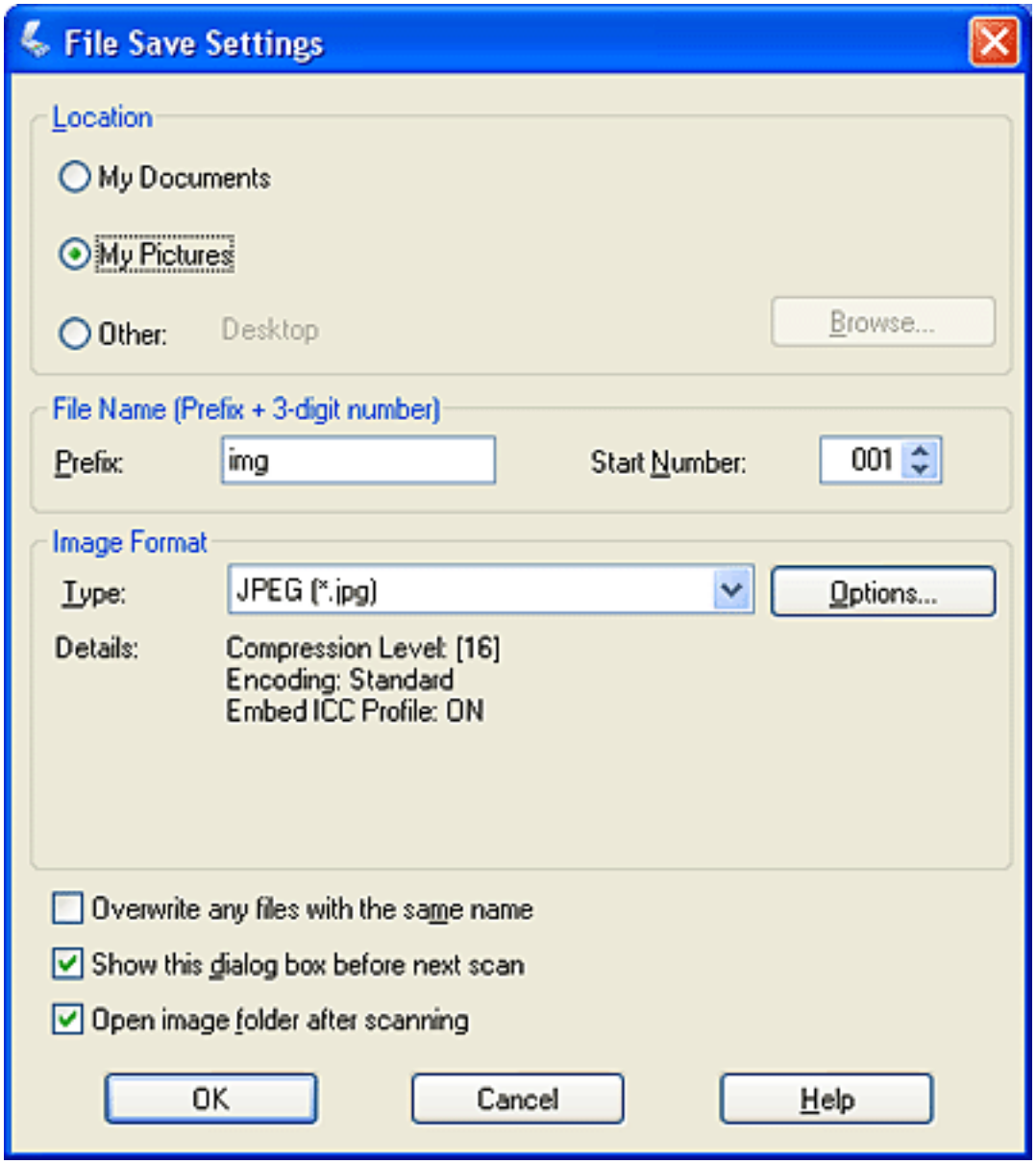
1. Do one of the following to open the File Save Settings window.

   - **Full Auto Mode**
     In the standby window, click the **Customize** button, then click the **File Save Settings** button. (If you started Epson Scan from a program like Adobe Photoshop Elements, this button doesn't appear.)
   - **Home or Professional Mode**

     Click the File Save Settings button to the right of the Scan button. (If you started Epson Scan from a program like Adobe Photoshop Elements, this button doesn't 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 **Other**, 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 **Other**.



3 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:

- With Windows, the following characters cannot be used in the prefix.
  \, /, :, ., *, ?, ", <, >, |
- With Mac OS X, you cannot use a colon (:) in the prefix.

4 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)	Explanation
BITMAP (*.BMP) (Windows only)	A standard image file format for Windows. Most Windows programs, including word processing programs, can read 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. You can also edit the scanned images before they are saved. See Scanning Directly to a PDF File for details.
PICT (*.PCT) (Macintosh only)	A standard image file format for Macintosh. Most Macintosh programs, including word processing programs, can read 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.

5 The checkboxes 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**
  Select this option if you want the File Save Settings window to appear automatically before you scan (Home or Professional Mode only). If you deselect it, you must click the File Save Settings button to open the window in Home or Professional Mode.
- **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 is saved when Epson Scan finishes scanning.

6 Click **OK**.

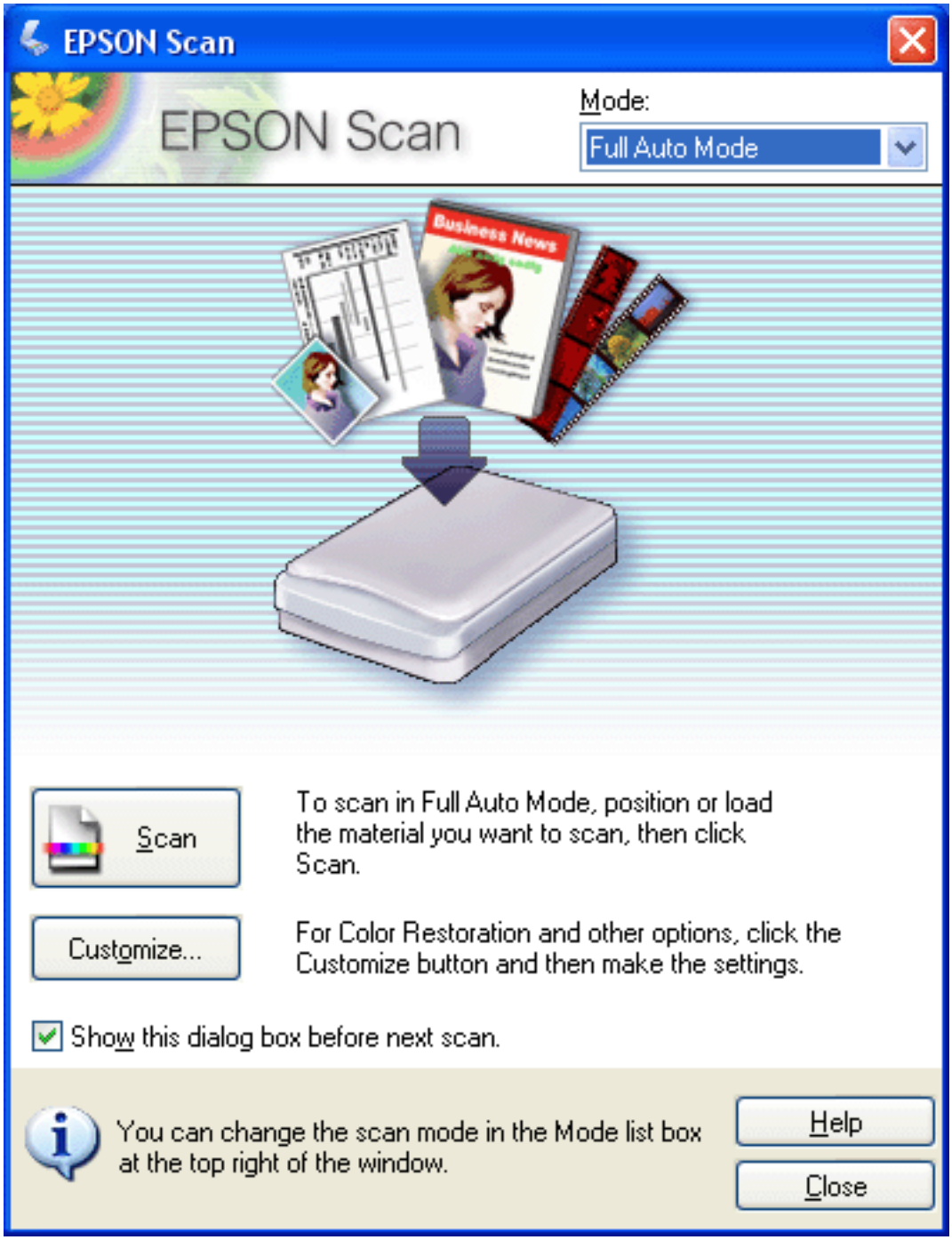
7 In Full Auto Mode, click **OK** again, then click **Scan**. In Home or Professional Mode, click **Preview**, then click **Scan**.

The scanned image is automatically saved in the file and location you chose.

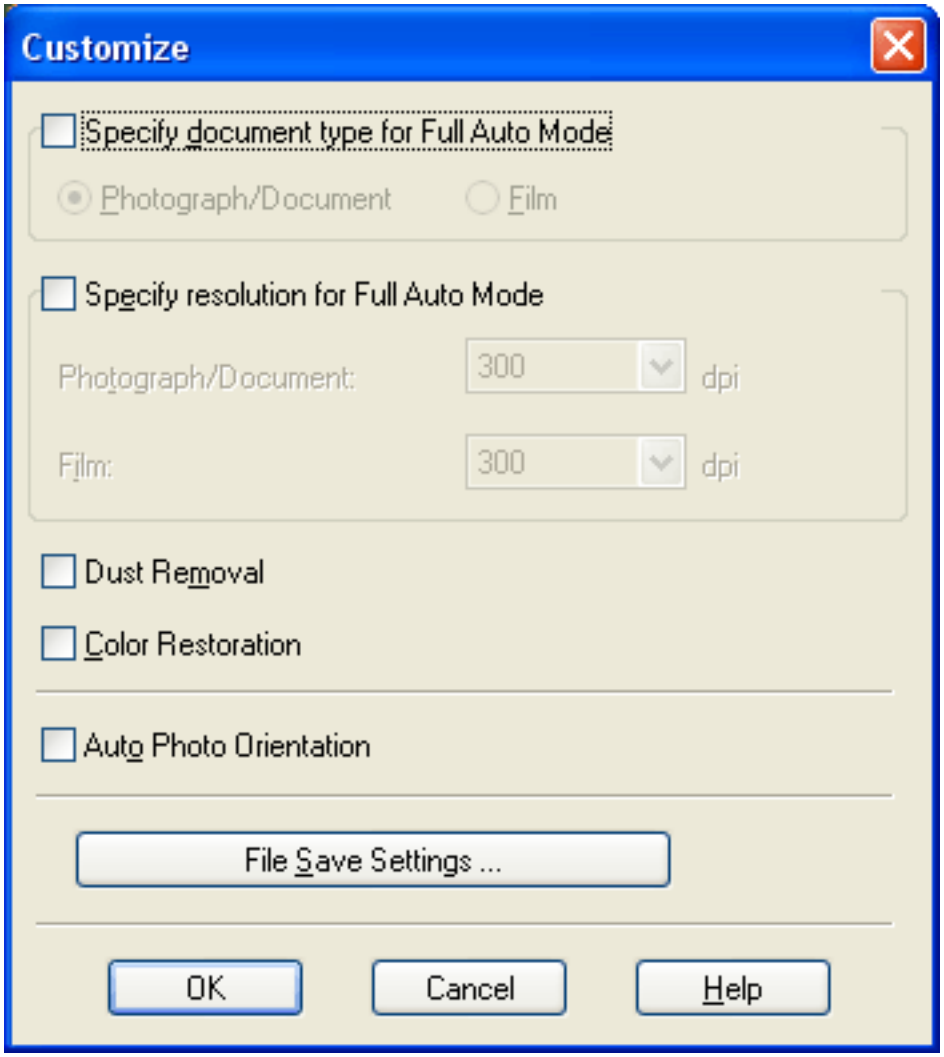
Top

Using Full Auto Mode

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



1 If you want to select a custom resolution, restore faded colors, or remove dust marks, click the **Customize** button. You see the Customize window.



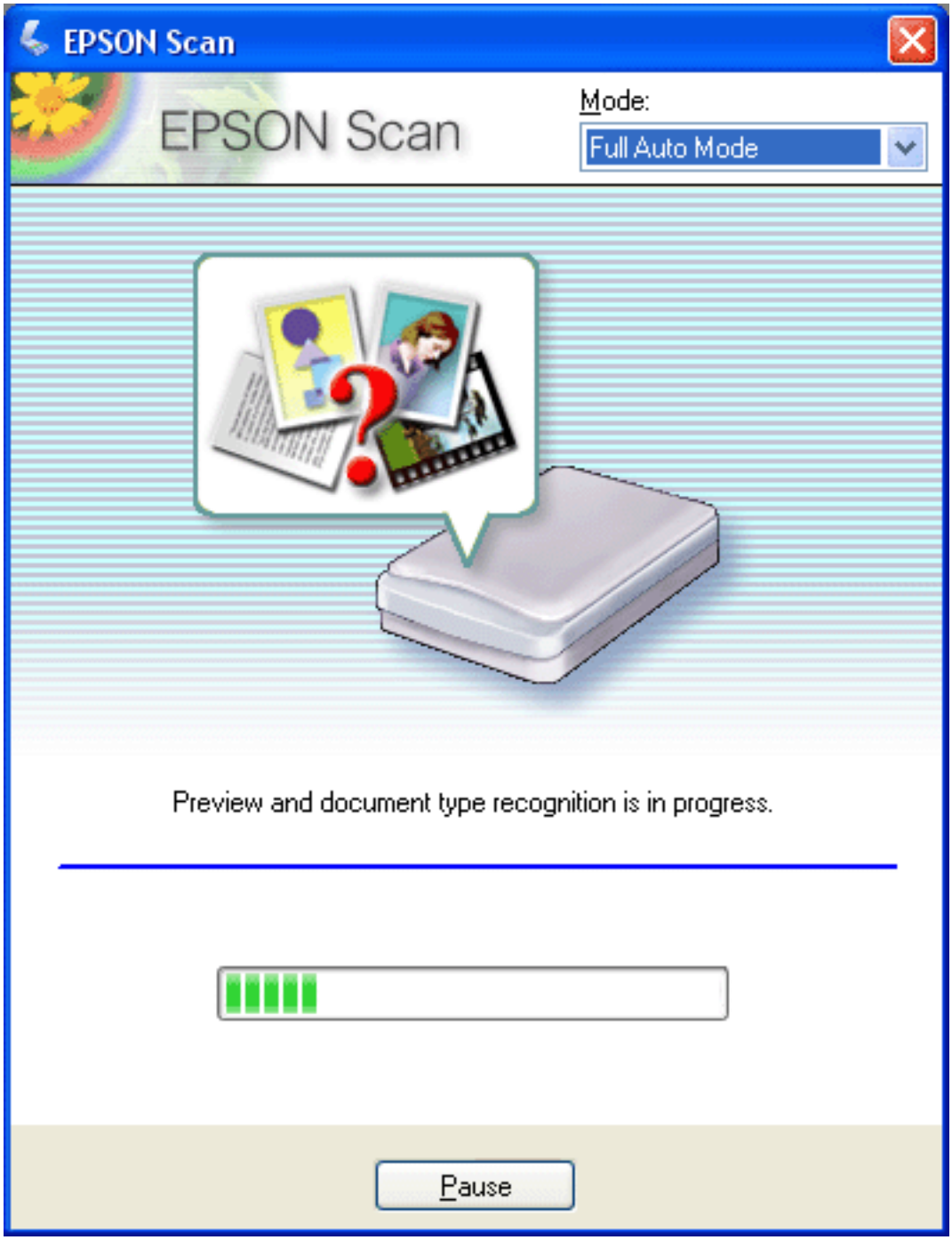
Note:

If you started scanning from a program like Adobe Photoshop Elements, the File Save Settings button is not available in the Customize window.

Select your settings and click **OK**. (For details on selecting settings, click the **Help** button.)

2 Click the **Scan** button. Epson Scan starts scanning in Full Auto Mode.

Epson Scan previews your image, detects whether it is a document or photo, and selects the scan settings automatically. After a moment, you see a small preview of your image in the Epson Scan window.



Note:

- If you need to change any settings, click the **Pause** button. You will return to the Epson Scan standby window.
- If you need to cancel scanning, click the **Cancel** button when it appears.

3 Depending on how you started Epson Scan, the program saves the file to the location you specified or opens the scanned image in your scanning program. See Finishing the Scan for details.

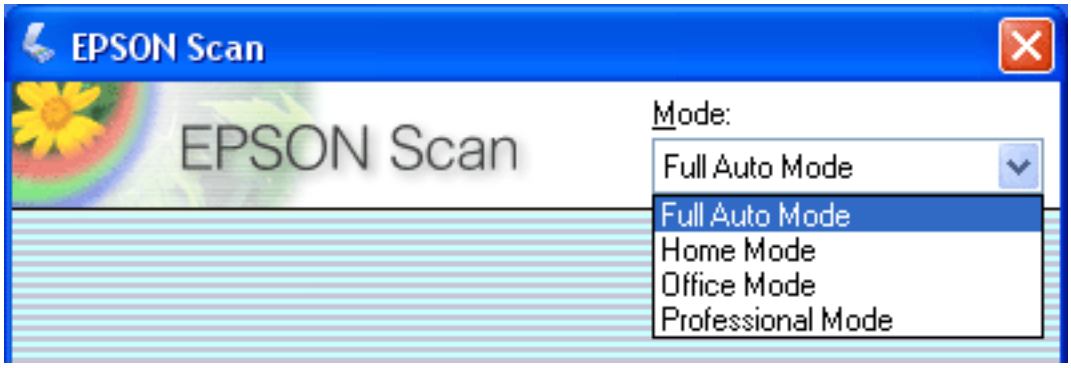
Note:

- If you have a problem scanning your photo or document in Full Auto Mode, try scanning it in Home or Professional Mode instead.
- If you want to change the scan mode, see Changing the Scan Mode.
- If your image is not rotated correctly, see Images Are Rotated Incorrectly.

Top

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 the next time.

For instructions on scanning using these modes, see:

- **Full Auto Mode**: Using Full Auto Mode.
- **Home or Professional Mode**: Selecting Basic Settings.
- **Office Mode**: After you select Office Mode, click the **Help** button in the Epson Scan window.

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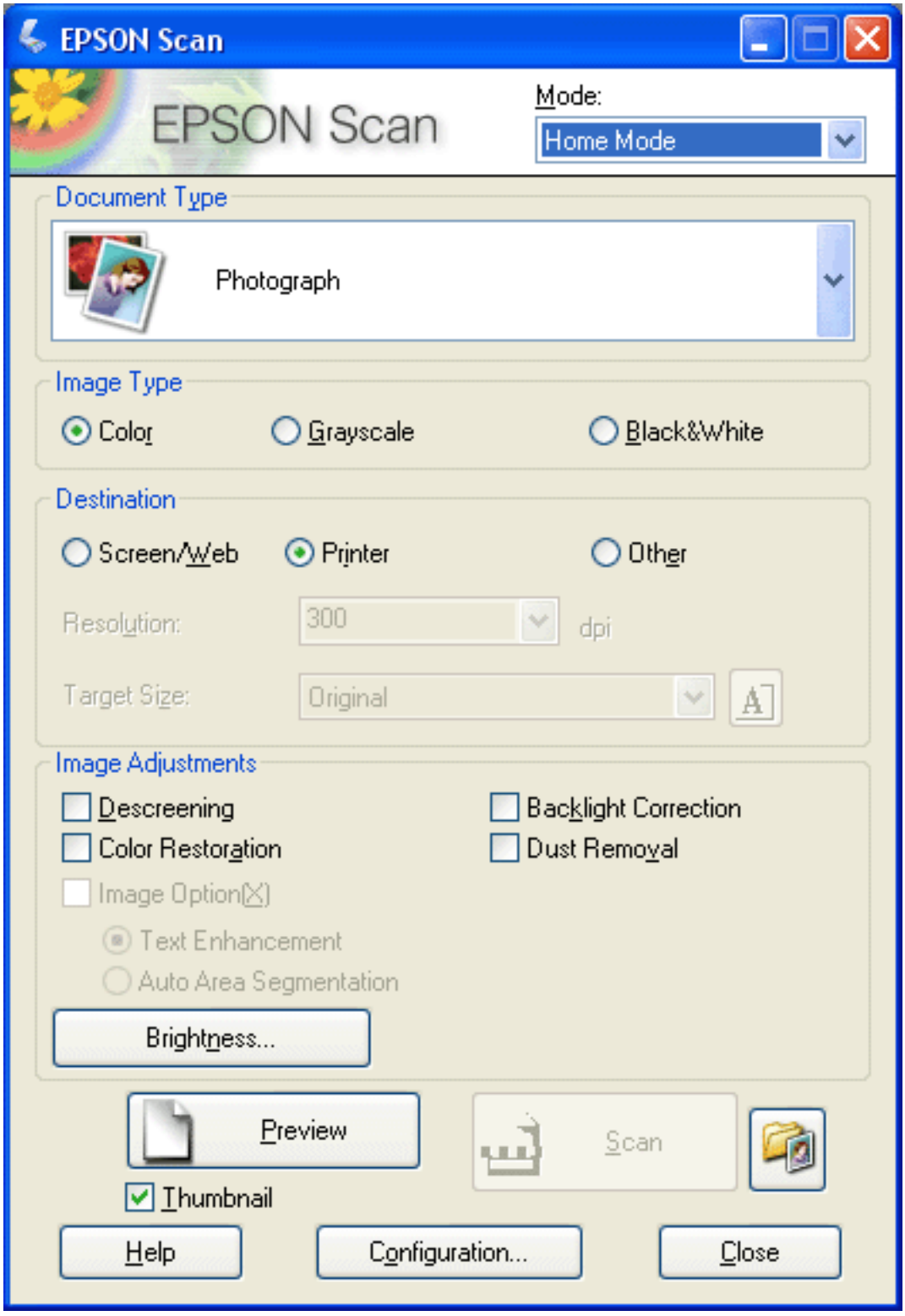
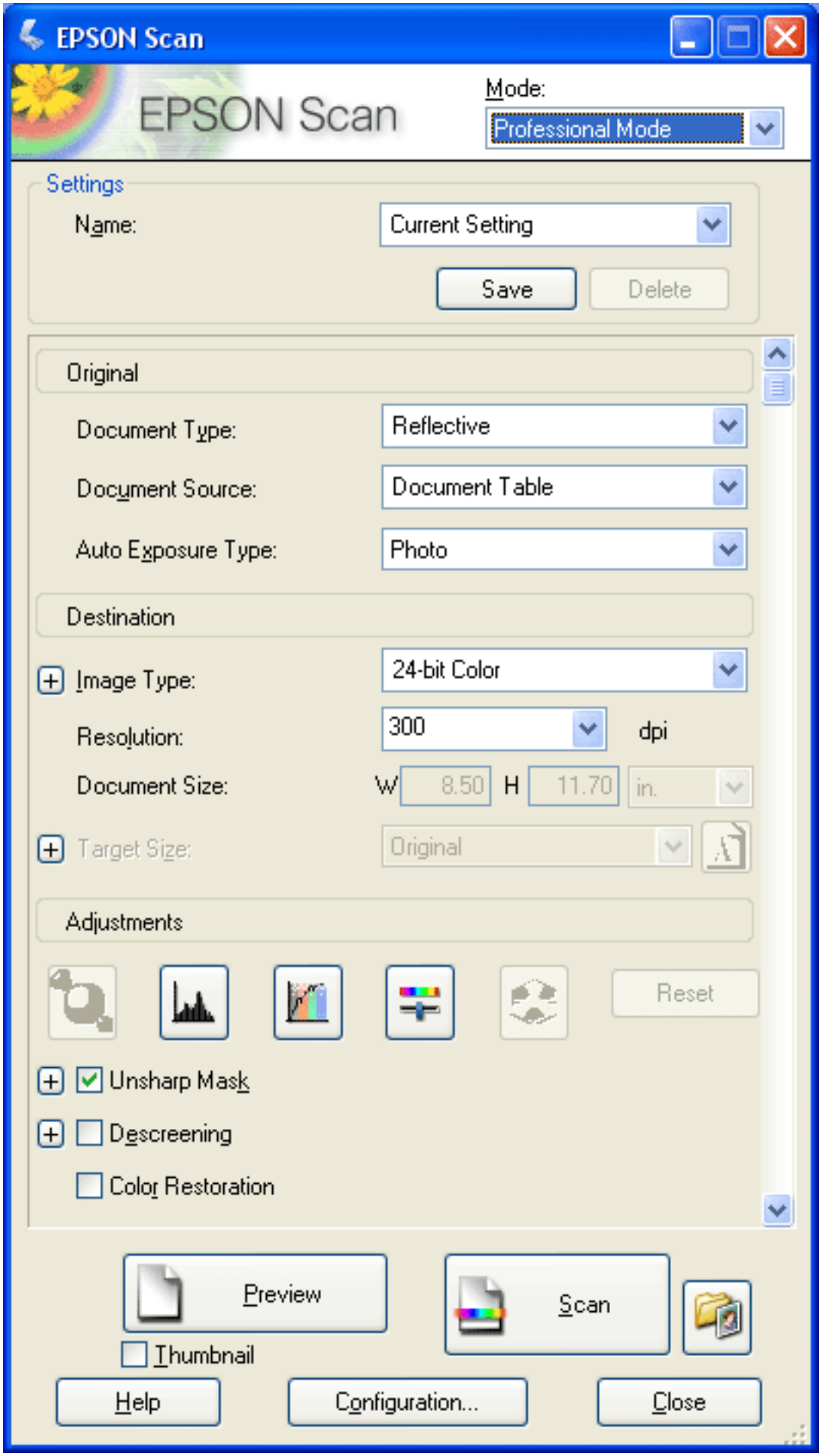
Selecting Basic Settings

When you start Epson Scan in Home or Professional Mode, you see the main Epson Scan window.

Home Mode



Professional Mode


EPSON Scan
EPSON Scan
Mode:
Professional Mode
Settings
Name:
Current Setting
Save
Delete
Original
Document Type:
Reflective
Document Source:
Document Table
Auto Exposure Type:
Photo
Destination
Image Type:
24-bit Color
Resolution:
300
dpi
Document Size:
W
8.50
H
11.70
in.
Target Size:
Original
Adjustments
Reset
Unsharp Mask
Descreening
Color Restoration
Preview
Scan
Thumbnail
Help
Configuration...
Close

Before you scan your document or photo, you need to select these basic settings.

- Original settings. These tell Epson Scan the type of document or photo you are scanning.
- Destination settings. These tell Epson Scan how you plan to use your scanned image.

Follow these steps to select the basic settings for a document or photo in Epson Scan.

1 Do one of the following to select your document type.

Home mode:
Click the arrow to open the Document Type list and select the type of original you are scanning. Then click the **Color**, **Grayscale**, or **Black&White** button to match the colors in the original.

Professional mode:
Click the arrow to open the Document Type list and select **Reflective** (for scanning a photo or document). Then click the arrow in the Auto Exposure Type list and select **Document** or **Photo**.

2 Do one of the following to select your destination setting(s).

Home mode:
In the Destination box, click the button for the way you plan to use the scanned image.

- **Screen/Web** for images you will view only on a computer screen or post on the web.
- **Printer** for images 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.

Professional mode:
Click the arrow to open the Image Type list and select the image type you are scanning.

Image Type setting	Type of image you are scanning
48-bit Color	Color photo that you may want to modify in a 48-bit image-editing program If you use this setting, your image file size will be significantly larger than if you use the 24-bit Color or Color Smoothing settings.
24-bit Color	Color photo
Color Smoothing	Color graphics, such as a chart or graph
16-bit Grayscale	Black-and-white photo with many shades of gray If you use this setting, your image file size will be larger than if you use the 8-bit Grayscale setting.
8-bit Grayscale	Black-and-white photo with just a few shades of gray

Black & White	Document with black text and/or line art

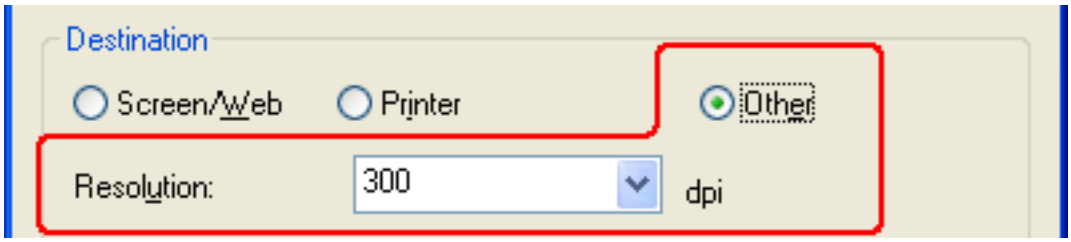
If you select **8-bit Grayscale** or **Black & White** in Professional Mode, you can also select a **Color Enhance** or **Dropout** Image Option setting (to enhance or dropout the color you select). To access the setting, click the **+** (Windows) or ▶ (Mac OS X) button next to Image Type.

3 In Home Mode, Epson Scan selects a default resolution setting based on the Destination setting you select. See Selecting the Scan Resolution to continue scanning.

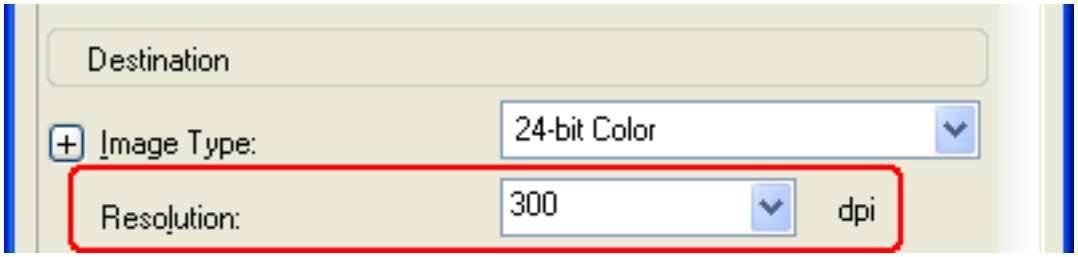
Top

Selecting the Scan Resolution

In Home Mode, you can change the resolution only if you select **Other** as the Destination setting.



In Professional Mode, you can select the resolution you want at any time.



Before you select the scan resolution, you should consider whether you will enlarge your images before or after you scan them. Follow these guidelines.

- **You will not be enlarging the images.**
  If you will scan the images at 100% size or smaller and will not enlarge them later, you can accept the Resolution setting selected by Epson Scan based on your Destination setting (Home Mode only).
- **You will enlarge the images as you scan them (increase the Target Size setting).**
  If you will enlarge the images in Epson Scan so you can use them at a larger size, you can accept the Resolution setting selected by Epson Scan based on your Destination setting (Home Mode only).

- **You will scan the images at their original size, but then enlarge them later in an image-editing program.**
  If you plan to enlarge your images later in an image-editing program, you need to increase the Resolution setting to retain a high image quality after enlargement. Increase the resolution by the same amount you will increase the image size. For example, if the resolution is 300 dpi (dots per inch), but you will increase the image size to 200% in an image-editing program, change the Resolution setting to 600 dpi in Epson Scan.

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 some 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
Print, convert to editable text (OCR)	300 dpi
Fax	200 dpi
Enlarge after scanning at 100%	Increase Resolution setting by same amount you will increase image size after scanning

After selecting the Resolution, you can preview your image and make any necessary adjustments. See Previewing and Adjusting the Scan Area to continue scanning.

Top

Previewing and Adjusting the Scan Area

Once you have selected your basic settings and resolution in Home or Professional Mode, you can preview your image and select or adjust the area of the image(s) you want to scan. Epson Scan displays the preview image(s) in a separate Preview window on your screen.

There are two types of preview.

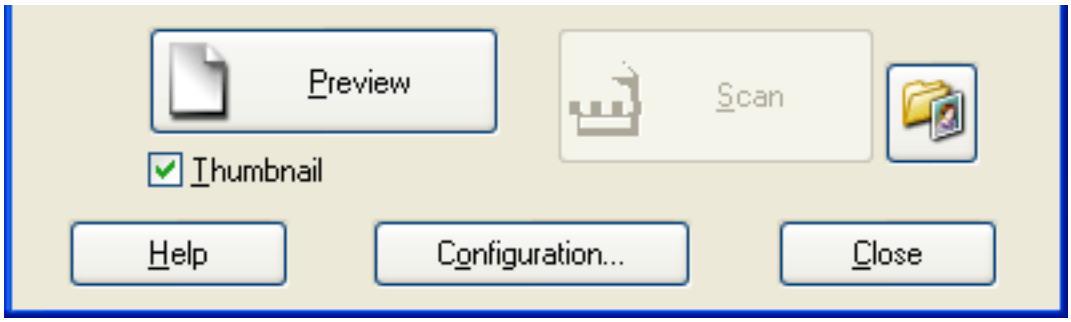
- **Normal preview** displays your previewed images in their entirety. You must select the scan area and make any image quality adjustments manually. This is the default preview type in Professional Mode, but you can also select it in Home Mode, if available.
- **Thumbnail preview** displays your previewed images as thumbnails. Epson Scan automatically locates the edges of your scan area and applies automatic exposure settings to the images. This is the default preview type in Home Mode, but you can also select it in Professional Mode, if available.

Note:

Depending on your document type and other settings, the normal preview may be automatically selected and you will not be able to change to thumbnail preview.

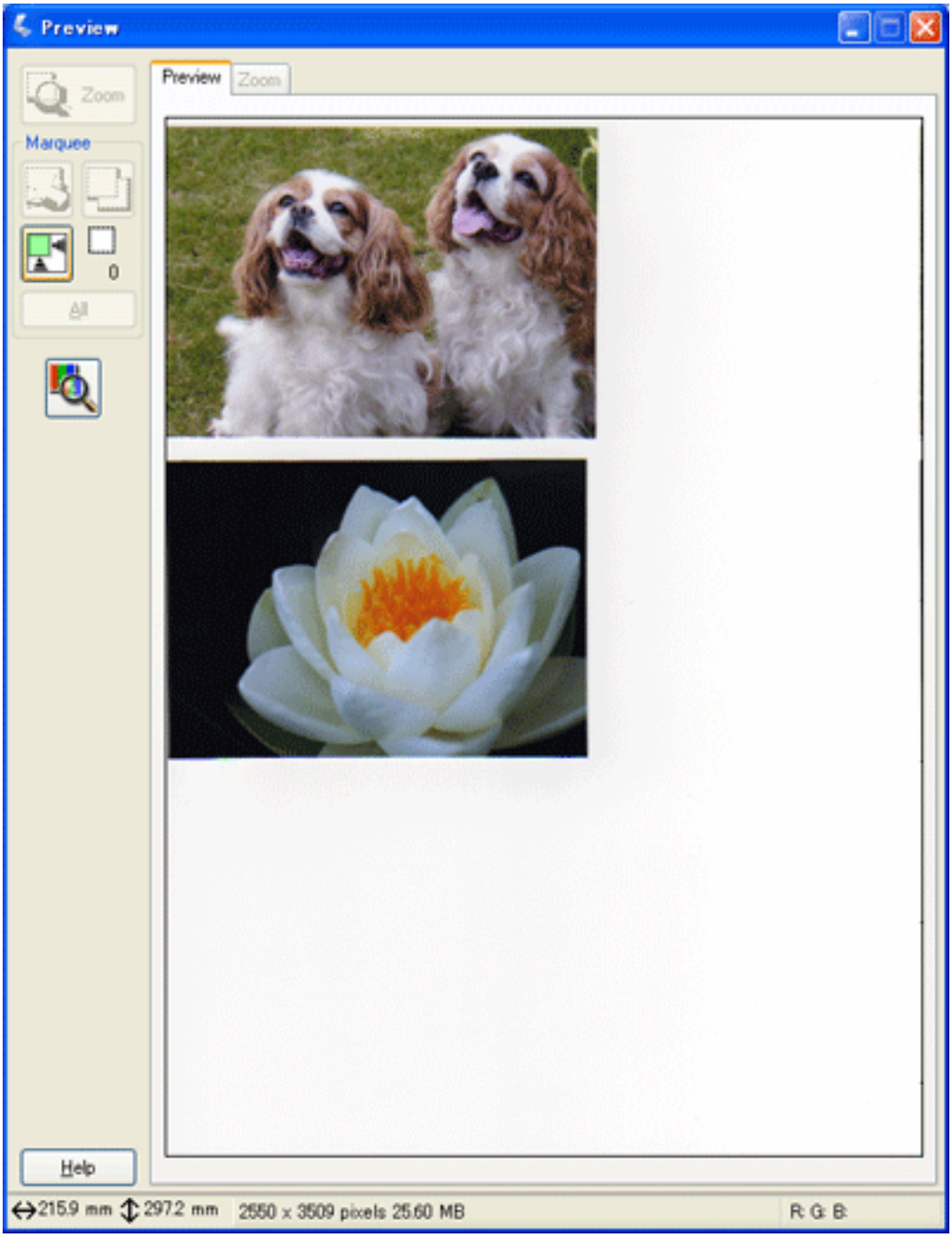
Follow these steps to preview your image(s) in Home or Professional Mode.

1. Click the **Preview** button toward the bottom of the Epson Scan window. If you want to change the preview type, click the **Thumbnail** checkbox under the **Preview** button, if it is available.

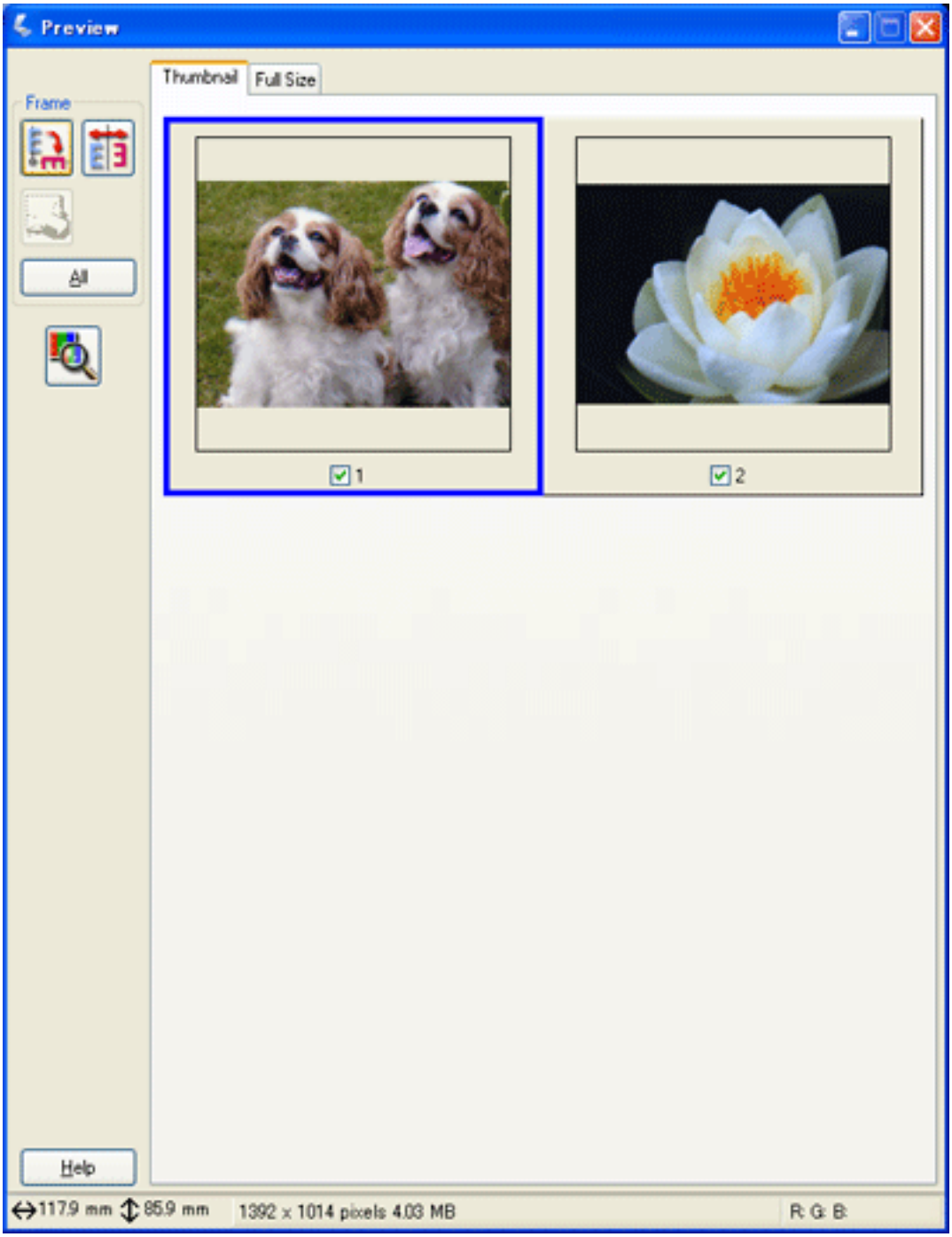


Epson Scan prescans your image(s) and displays them in one of the following Preview windows.

Normal preview



Thumbnail preview



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 place a marquee that marks the edges of your image area. You can move the marquee to change the scan area. See Adjusting the Scan Area (Marquee) 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 for instructions. You can then copy the marquee and place it on each image you will scan at that size.

- To zoom in on an image, click inside the scan area and click the **Zoom** button. Epson Scan prescans again and displays a larger preview on the Zoom tab. (Your other images are still previewed at the original size on the Preview tab.)
- To adjust the image quality, click the image(s) you want to modify and make the adjustments as described in Adjusting the Color and Other Image Settings.

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

- To zoom in on an image, double-click its thumbnail, or click the thumbnail and then click the **Full Size** tab near the top of the Preview window. (This feature is only available when you are scanning multiple images at the same time.)
- To rotate an image or flip it horizontally (like a mirror image), click its thumbnail and then click the rotation icon or mirroring icon.
- To adjust the scan area to crop your image, you can create and move a marquee that marks the edges of your scan. See Adjusting the Scan Area (Marquee) for instructions.
- To adjust the image quality, click the image(s) you want to modify and make the adjustments as described in Adjusting the Color and Other Image Settings. If you want to apply the adjustments to all your images, click the **All** button.

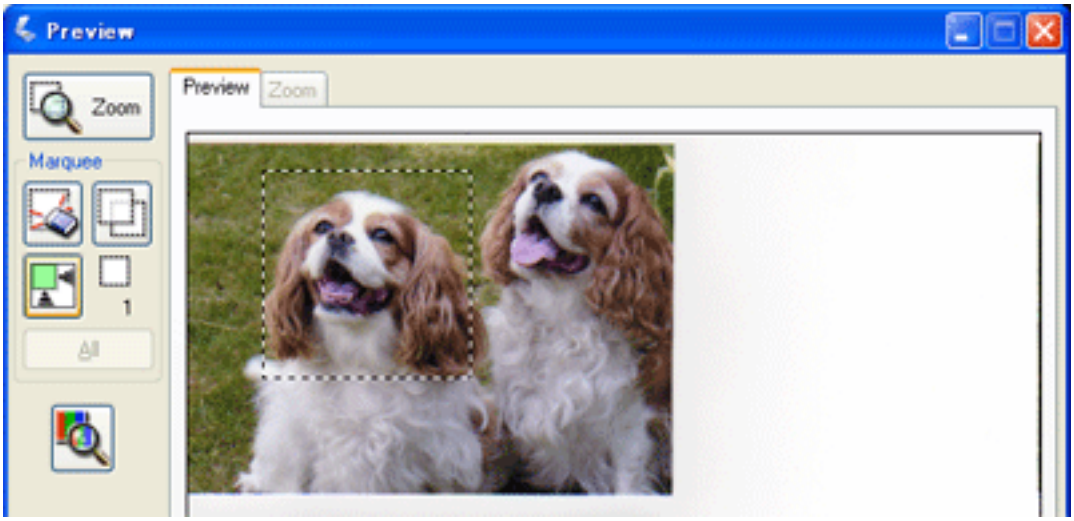
Note:

If your image is not rotated correctly, see Images Are Rotated Incorrectly.

4 When you have finished adjusting the scan area, and modifying the color and image settings, you can select the size of your scanned image, if you have not already selected it. See Selecting the Scan Size for instructions.

Adjusting the Scan Area (Marquee)

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



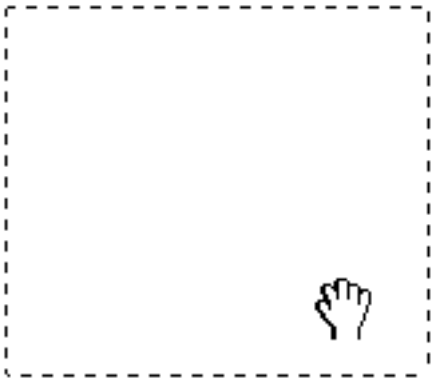
You can move the marquee, adjust its size, and create multiple marquees on one image (normal preview only) to scan different image areas in separate scan files. Follow these steps.

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

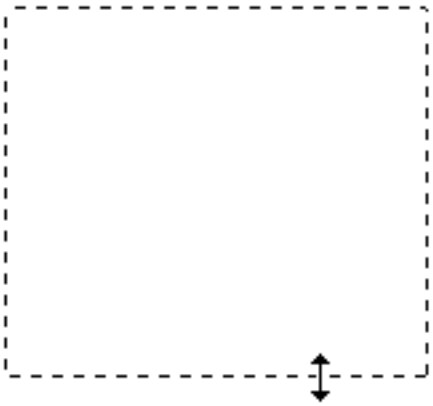
2. Position the pointer in the area where you want to place the corner of your marquee and click. Hold down the mouse button and drag the cross-hairs over the image to the opposite corner of the desired scan area. Then release the mouse button. You see the moving dotted line of the marquee.

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 movement of the marquee to vertical or horizontal only, hold down the **Shift** key as you move the marquee. To restrict sizing 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 To draw multiple marquees (up to 50; normal preview only), you can 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 the **All** button in the Preview window before you scan; otherwise, only the area inside of the last marquee you drew will be scanned.

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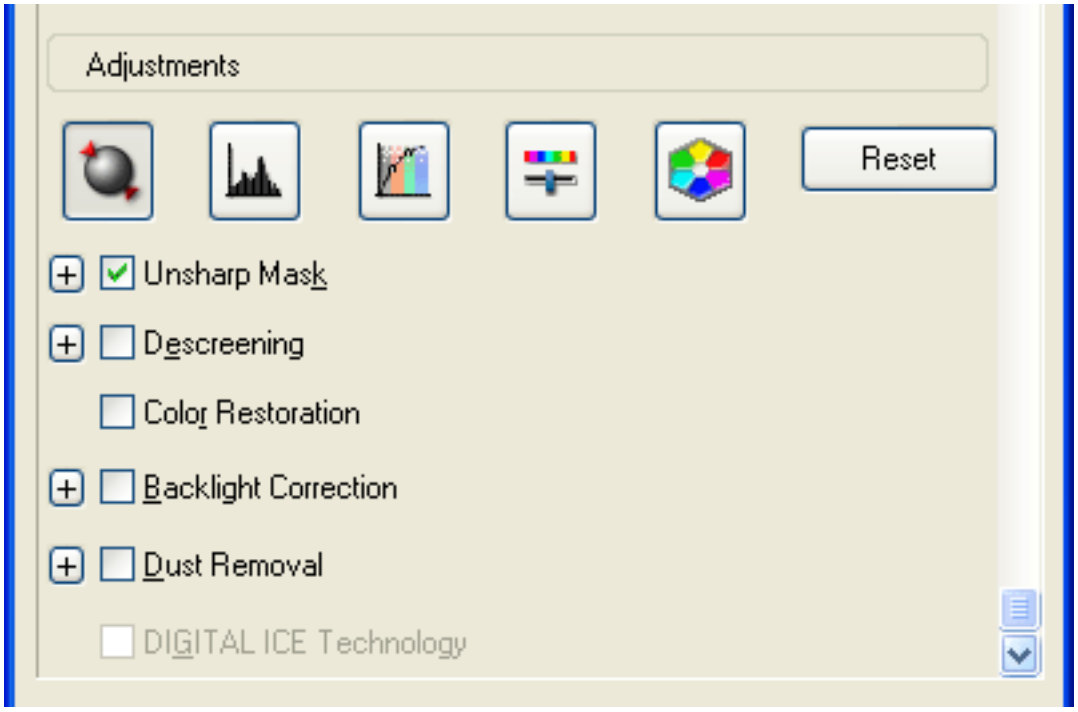
Adjusting the Color and Other Image Settings

Once you have previewed your images 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. In Professional Mode, you may need to scroll down to the Adjustments area of the main Epson Scan window.



The table below describes the settings available in Home and/or Professional Mode. For details on adjusting these settings, click **Help** in the Epson Scan window.

When you are finished making adjustments, you can size your scanned images (see Selecting the Scan Size) or go ahead and click **Scan** (see Finishing the Scan).

Setting	Available mode(s) and description

Color Restoration	Home and Professional: Restores the colors in faded photos automatically.
Dust Removal	Home and Professional: Removes dust marks from your originals automatically. The results of Dust Removal do not appear in the preview, only in your scanned image. In Professional Mode, the level of Dust Removal is adjustable.
Backlight Correction	Home and Professional: Removes shadows from photos that have too much background light. In Professional Mode, the level of Backlight Correction is adjustable.
Brightness	Home and Professional: Adjusts the overall image lightness and darkness. In Home Mode, click the **Brightness** button to access the Brightness setting. In Professional Mode, click the Image Adjustment button to access the Brightness setting.
Contrast	Home and Professional: Adjusts the difference between the light and dark areas of the overall image. In Home Mode, click the **Brightness** button to access the Contrast setting. In Professional Mode, click the Image Adjustment button to access the Contrast setting.
Saturation	Professional only: Adjusts the density of colors in the overall image. Click the Image Adjustment button to access the Saturation setting.
Color Balance	Professional only: Adjusts the balance of red, green, and blue colors in the overall image. Click the Image Adjustment button to access the Color Balance setting.
Auto Exposure	Home: Automatically applied. Professional: Automatically applied. To adjust the level of exposure, click the **Configuration** button, click the **Color** tab, and adjust the **Auto Exposure Level** slider. If you don't want Auto Exposure automatically applied, deselect **Continuous Auto Exposure** in the Color tab. Then, click the Auto Exposure button (Professional Mode only) or reselect **Continuous Auto Exposure** whenever you want to apply this setting to an image.

Unsharp Mask	Home: Automatically applied. Professional: Turned on by default. Unsharp Mask makes the edges of image areas clearer for an overall sharper image. The level of sharpness is adjustable. Turn off to leave softer edges.
Descreening	Home and Professional: 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. In Professional Mode, the method of Descreening is selectable.
Histogram	Professional only: Provides a graphical interface for adjusting highlight, shadow, and gamma levels individually. For advanced users only. Click the Histogram Adjustment button to access the Histogram setting.
Tone Correction	Professional only: Provides a graphical interface for adjusting tone levels individually. For advanced users only. Click the Tone Correction button to access the Tone Correction setting.
Color Palette	Professional only: 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. Click the Color Palette button to use the Color Palette settings. See Using the Color Palette Function (Professional Mode Only) for instructions.
Threshold	Home and Professional: 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.) In Home Mode, click the **Brightness** button to access the Threshold setting.
Text Enhancement	Home only: Improves the definition of text and line art. Enhances text recognition when scanning text documents.
Auto Area Segmentation	Home only: Makes grayscale images clearer and text recognition more accurate by scanning text in black & white while retaining the grayscale of the image. (Available only when you select **Black&White** as the Image Type setting.)

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 click 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 the **Configuration** button 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 the **Reset** button (if available), turn off the setting, or preview your image again.

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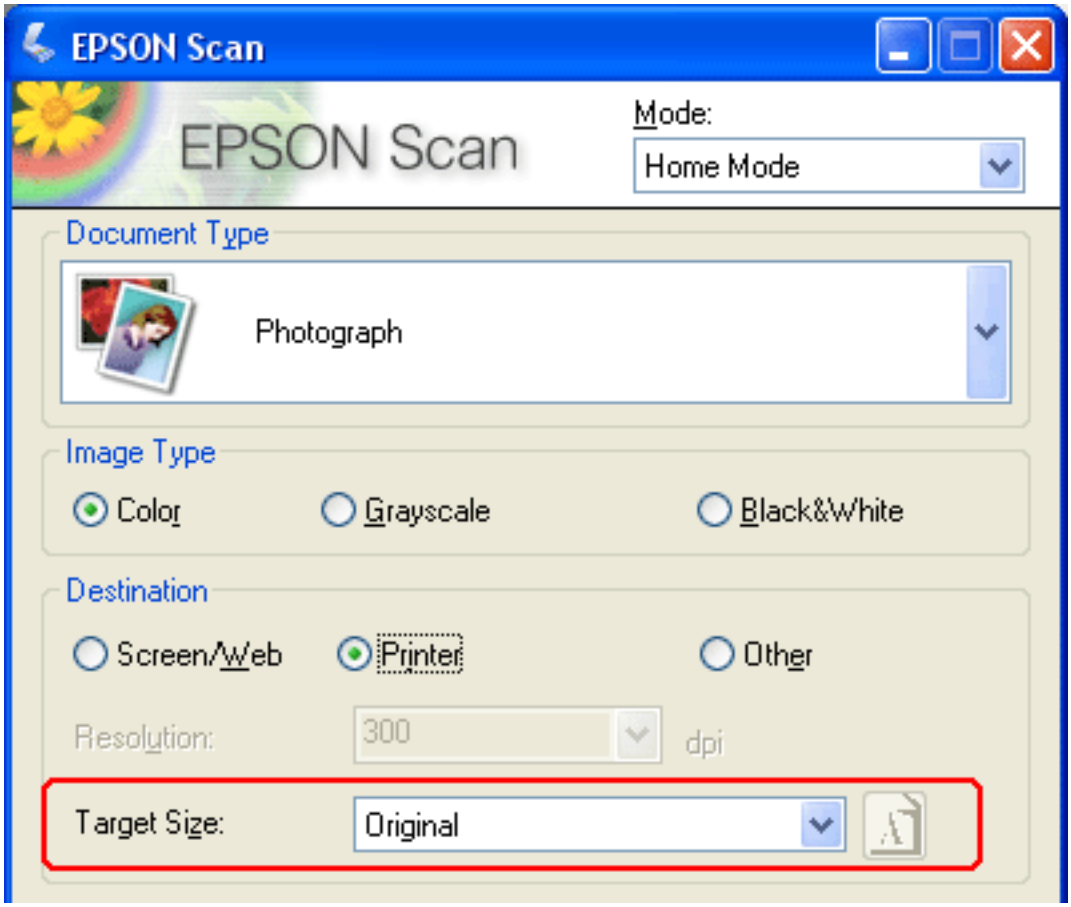
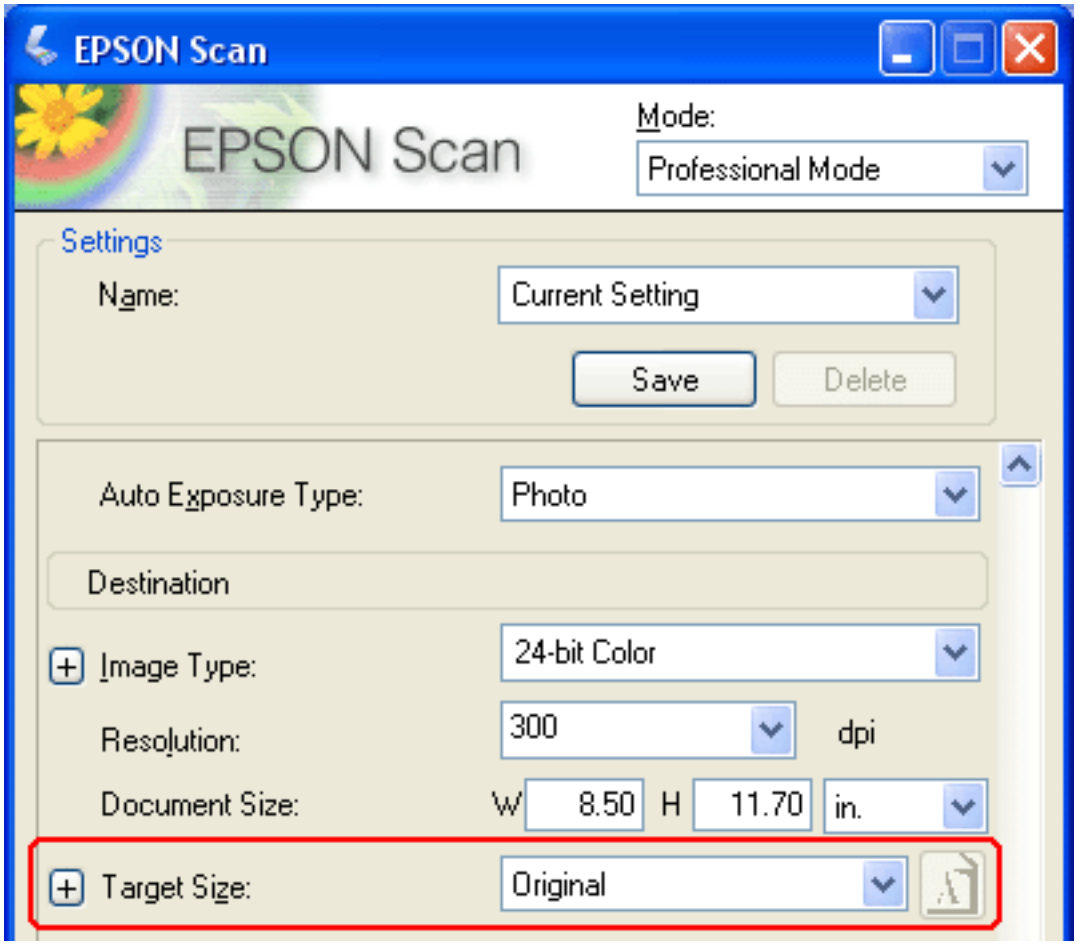
Selecting the Scan Size

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 in Home or Professional Mode.

Home Mode



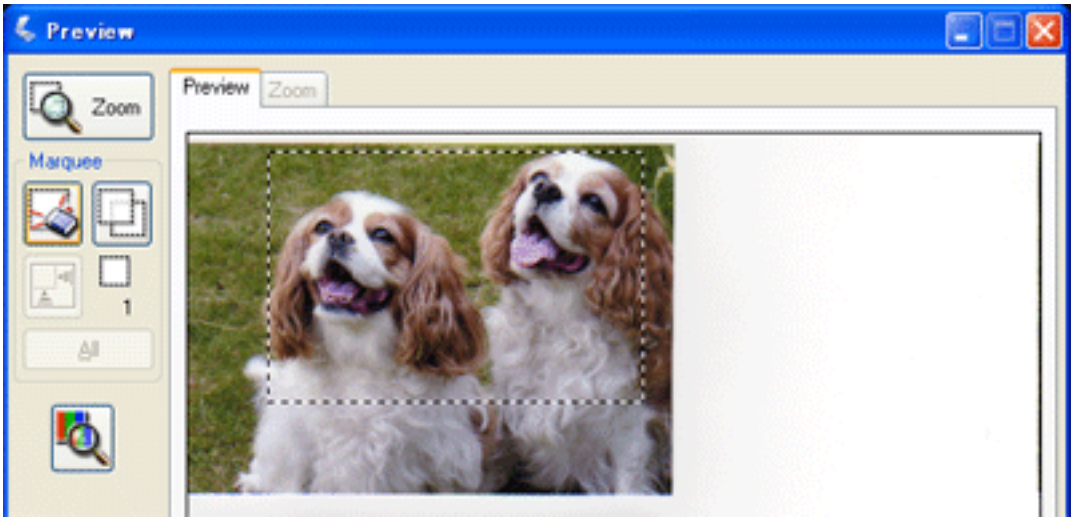
Professional Mode



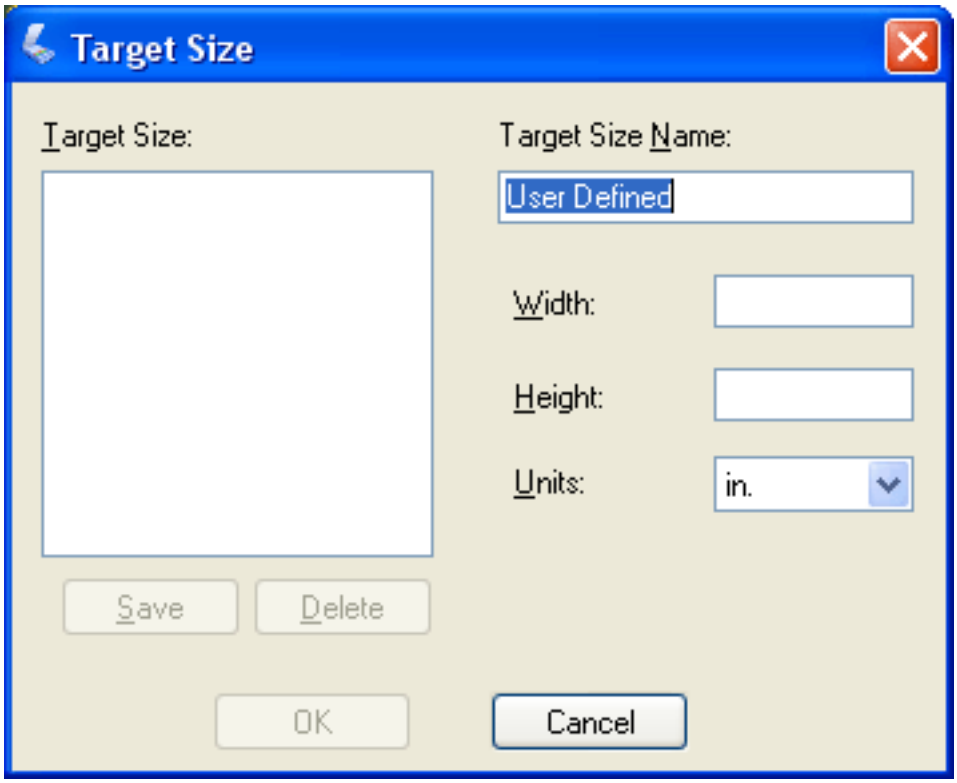
If you are going to scan your image to a particular size, you should select the Target Size setting after previewing it, but before adjusting your scan area (indicated by the marquee). This sets the scan area to the correct proportions so your image will not be cropped unexpectedly.

For instructions on previewing your image(s), see Previewing and Adjusting the Scan Area. Then follow these steps to select the Target Size setting.

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

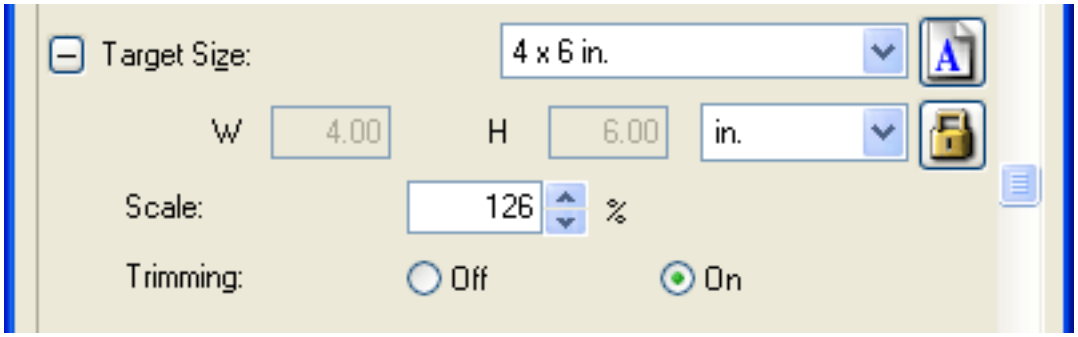


2 If you need to create a scan size that is not in the Target Size list, you can create a custom size. Click the arrow in the list and select **Customize**. You see the Target Size window.



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

3 In Professional Mode, you can fine-tune the size using additional tools. Click the **+** (Windows) or ▶ (Mac OS X) 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.

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 Adjusting the Scan Area (Marquee). 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. (Not available if you are scanning at the **Original** Target Size.)

Note:

For more information about using the Target Size tools, click **Help** in the Epson Scan window.

5 Now you are ready to scan your image(s). Click the **Scan** button, and see Finishing the Scan for instructions.

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Finishing the Scan

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

- If you started your scan by pressing the Start button or running Epson Scan as a standalone program and you used Full Auto Mode, your scanned image is saved in the file format and location you chose. If you did not choose any file save settings, it is saved as a JPEG file in the Pictures or My Pictures folder.

- If you started your scan by pressing the Start button or running Epson Scan as a standalone program and you used Home or Professional Mode, 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 for details.
- If you started your scan from a scanning program such as Adobe Photoshop Elements, your scanned image(s) open in the program window. If Epson Scan does not automatically close after scanning, click **Close** to close the Epson Scan window and view your image(s) in the program.

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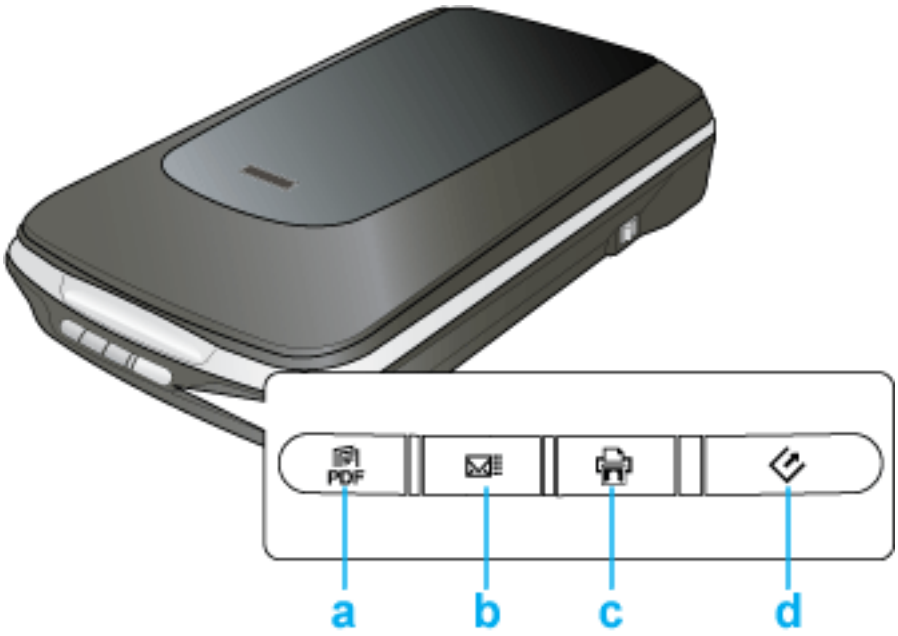
Starting a Scan With the Scanner Buttons



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

Start button

1. Place your film or slides on the scanner. See Placing Film or Slides for instructions.
2. To start a scan, press the Start button on the scanner. Your computer automatically starts Epson Scan.
3. From Epson Scan, you can select a scan mode and then scan and save your image to a file on your computer. If the Mode box in the upper right corner of the window is set to **Full Auto Mode**, see Using Full Auto Mode for instructions. If you are in Home or Professional Mode, see Selecting Basic Settings.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

If you want to change the scan mode, see Changing the Scan Mode.

Scan to PDF button

1. Place your film or slides on the scanner. See Placing Film or Slides for instructions.
2. To start a scan and save it as a PDF file on your computer, press the Scan to PDF button, then see Scanning Directly to a PDF File for instructions.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

Copy button

1. Place your film or slides on the scanner. See Placing Film or Slides for instructions.
2. To use the scanner as a copier and automatically scan and print your image, you can press the Copy button. Your computer automatically starts the Copy Utility. See Using the Scanner as a Copier for instructions.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

Scan to E-mail button

1. Place your film or slides on the scanner. See Placing Film or Slides for instructions.
2. To scan an image and open your e-mail program so you can attach it to an e-mail message, you can press the Scan to E-mail button. Epson Scan automatically starts scanning. See Scanning Directly to an E-mail for instructions.

If a program does not start when you press a button, see Pressing a Scanner Button Does Not Start the Correct Program.

Starting a Scan With Epson Scan

If you want to scan film or slides and save them directly to files, you can start Epson Scan as a “standalone” program.

1. Place your film or slides on the scanner. See Placing Film or Slides for instructions.

2. Do one of the following to start Epson Scan.

   Windows:
   Double-click the **EPSON Scan** icon on your desktop.

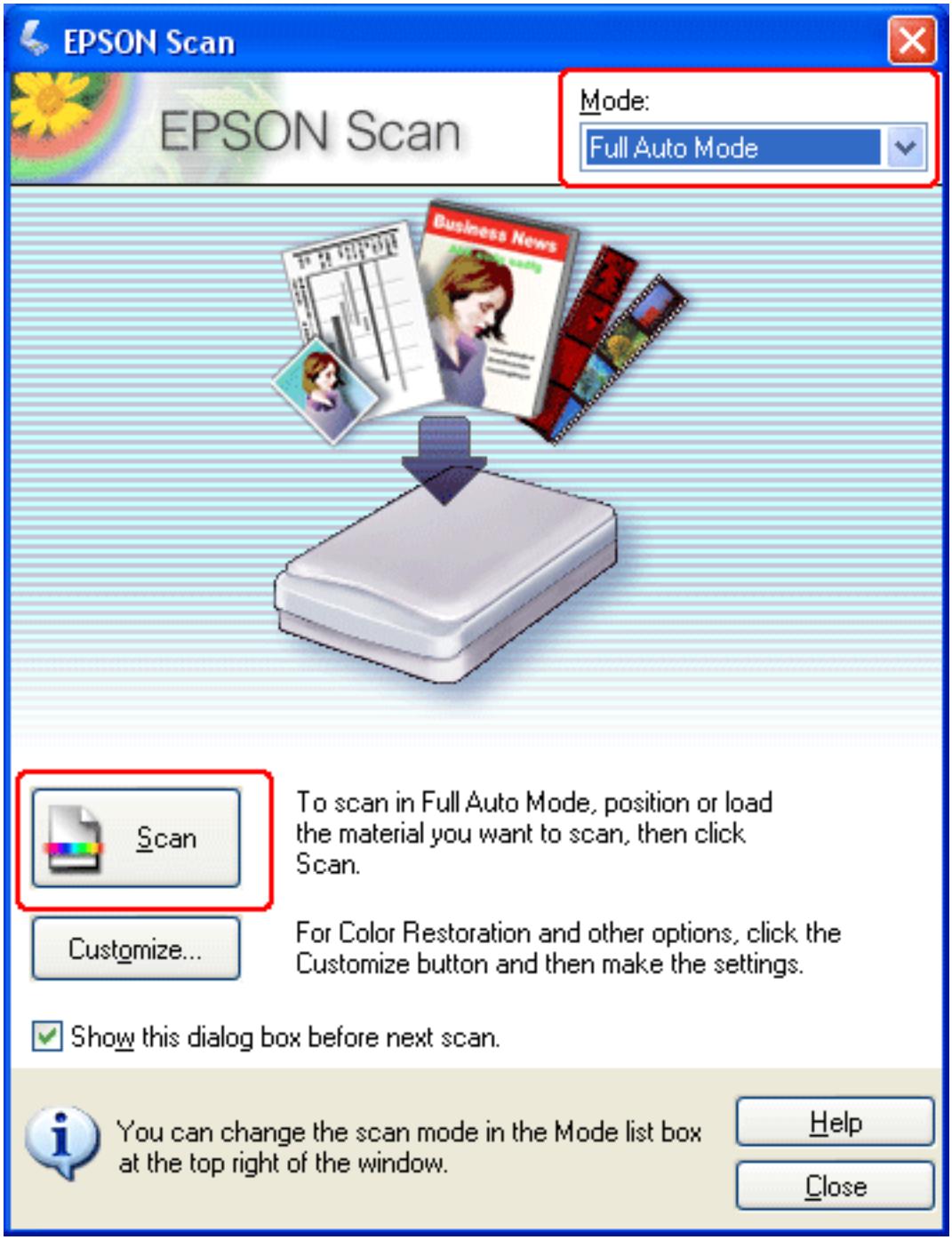
   Or select or **Start > All Programs** or **Programs > EPSON > EPSON Scan > EPSON Scan**.

   Mac OS X:
   Open the **Applications** folder and double-click the **EPSON Scan** icon.

   The Epson Scan window appears.

3. Do one of the following, depending on the scan mode you are using.

   - **Full Auto Mode**
     If the Mode box in the upper right corner of the window is set to **Full Auto Mode**, click the **Scan** button. Epson Scan automatically scans the image and saves it as a JPEG file in the Pictures or My Pictures folder. For instructions on selecting optional settings, see Using Full Auto Mode.



- **Home or Professional Mode**
  If the Mode box in the upper right corner of the window is set to Home or Professional Mode, see Selecting Basic Settings for instructions.

Note:

- In Full Auto Mode, you can scan only 35mm color negative film strips or color positive slides. If you want to scan other types of film, change to Home or Professional Mode.
- If you want to change the scan mode, see Changing the Scan Mode.

Starting a Scan With Another Scanning Program

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

Note:

Not all versions of Photoshop Elements are fully compatible with Windows Vista. If you are using Windows Vista, you may need to upgrade to the latest version of Photoshop Elements.

1. Place your film or slides on the scanner. See Placing Film or Slides for instructions.

2. Start your scanning program.

   Double-click the program icon from your desktop, if it is available, or do one of the following.

   Windows:

   Select or **Start > All Programs** or **Programs >** *program folder* **>** *program icon*.

   Mac OS X:
   Open the **Applications** folder, select the *program folder*, and double-click the *program icon*.

3. Select your program's scanning option. (See your scanning program help for instructions.)

   In some programs, you must select the scanner as the "source" first. If you see a **Select Source** option, choose it and select your scanner there first.

   If you're using Photoshop Elements, do one of the following.

Windows:
Click **Edit and Enhance Photos**, then open the **File** menu and select **Import**.

Mac OS X:
Click **Close** in the Welcome window (if it appears), then open the **File** menu and select **Import**.

Note:

You can also scan using the **Start From Scratch** or **Quickly Fix Photos** options in Photoshop Elements. See the Photoshop Elements Help utility for instructions.

4 Select **EPSON Perfection V500**.

Note for Windows Vista and XP users:

Do not choose a **WIA** option for your scanner from the Import or Acquire list; you will not be able to use all the features of your scanner.

5 Epson Scan starts automatically. For instructions on using it, see Selecting Epson Scan Settings.

Selecting Epson Scan Settings

- Overview of the Epson Scan Modes
- Selecting File Save Settings
- Using Full Auto Mode
- Changing the Scan Mode
- Selecting Basic Settings
- Selecting the Scan Resolution
- Previewing and Adjusting the Scan Area
- Adjusting the Color and Other Image Settings
- Selecting the Scan Size
- Finishing the Scan

Overview of the Epson Scan Modes

Epson Scan lets you control all aspects of scanning and includes three modes.

- **Full Auto Mode** lets you scan quickly and easily, without selecting any settings or previewing your image. This is the default mode in Epson Scan.

  Full Auto Mode is best when you need to scan your images at 100% size and you do not need to preview the images before scanning. You can restore faded colors or remove dust marks by clicking the **Customize** button.

  See Using Full Auto Mode for instructions on scanning in this mode.

  Note:

  > In Full Auto Mode, you can scan only 35mm color negative film strips or color positive slides. To scan other types of film, use Home or Professional 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 photos, film, or slides before scanning them. You can size the image as you scan, adjust the scan area, and adjust

many image settings, including color restoration, Digital ICE Technology (for color film and slides only), and backlight correction.

See Changing the Scan Mode for instructions on switching to Home Mode.

See Selecting Basic Settings for scanning steps.

- **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, Digital ICE Technology and Digital ICE Lite Technology (for color film and slides only), and backlight correction.

  See Changing the Scan Mode for instructions on switching to Professional Mode.

  See Selecting Basic Settings for scanning steps.

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Selecting File Save Settings

When you see the File Save Settings window, you need to select the location, name, and format of the scanned image file you want to save.

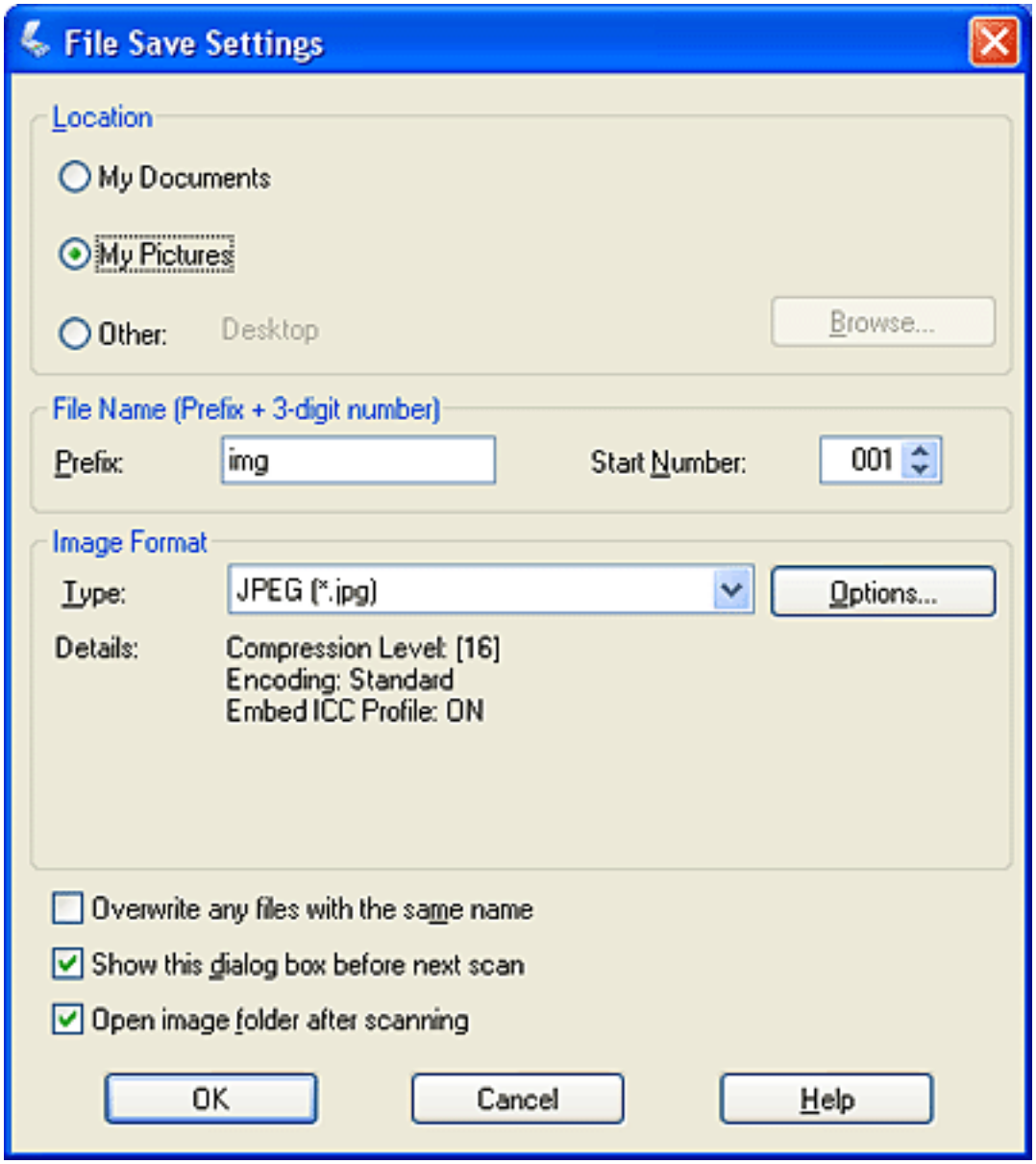
1. Do one of the following to open the File Save Settings window.

   - **Full Auto Mode**
     In the Standby window, click the **Customize** button, then click the **File Save Settings** button. (If you started Epson Scan from a program like Adobe Photoshop Elements, this button doesn't appear.)
   - **Home or Professional Mode**

     Click the File Save Settings button to the right of the Scan button. (If you started Epson Scan from a program like Adobe Photoshop Elements, this button doesn't 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 **Other**, 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 **Other**.



3 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:

- With Windows, the following characters cannot be used in the prefix.
  \, /, :, ., *, ?, ", <, >, |
- With Mac OS X, you cannot use a colon (:) in the prefix.

4 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)	Explanation
BITMAP (*.BMP) (Windows only)	A standard image file format for Windows. Most Windows programs, including word processing programs, can read 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. You can also edit the scanned images before they are saved. See Scanning Directly to a PDF File for details.
PICT (*.PCT) (Macintosh only)	A standard image file format for Macintosh. Most Macintosh programs, including word processing programs, can read 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.

5 The checkboxes 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**
  Select this option if you want the File Save Settings window to appear automatically before you scan (Home or Professional Mode only). If you deselect it, you must click the File Save Settings button to open the window in Home or Professional Mode.
- **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 is saved when Epson Scan finishes scanning.

6 Click **OK**.

7 In Full Auto Mode, click **OK** again, then click **Scan**. In Home or Professional Mode, click **Preview**, then click **Scan**.

The scanned image is automatically saved in the file and location you chose.

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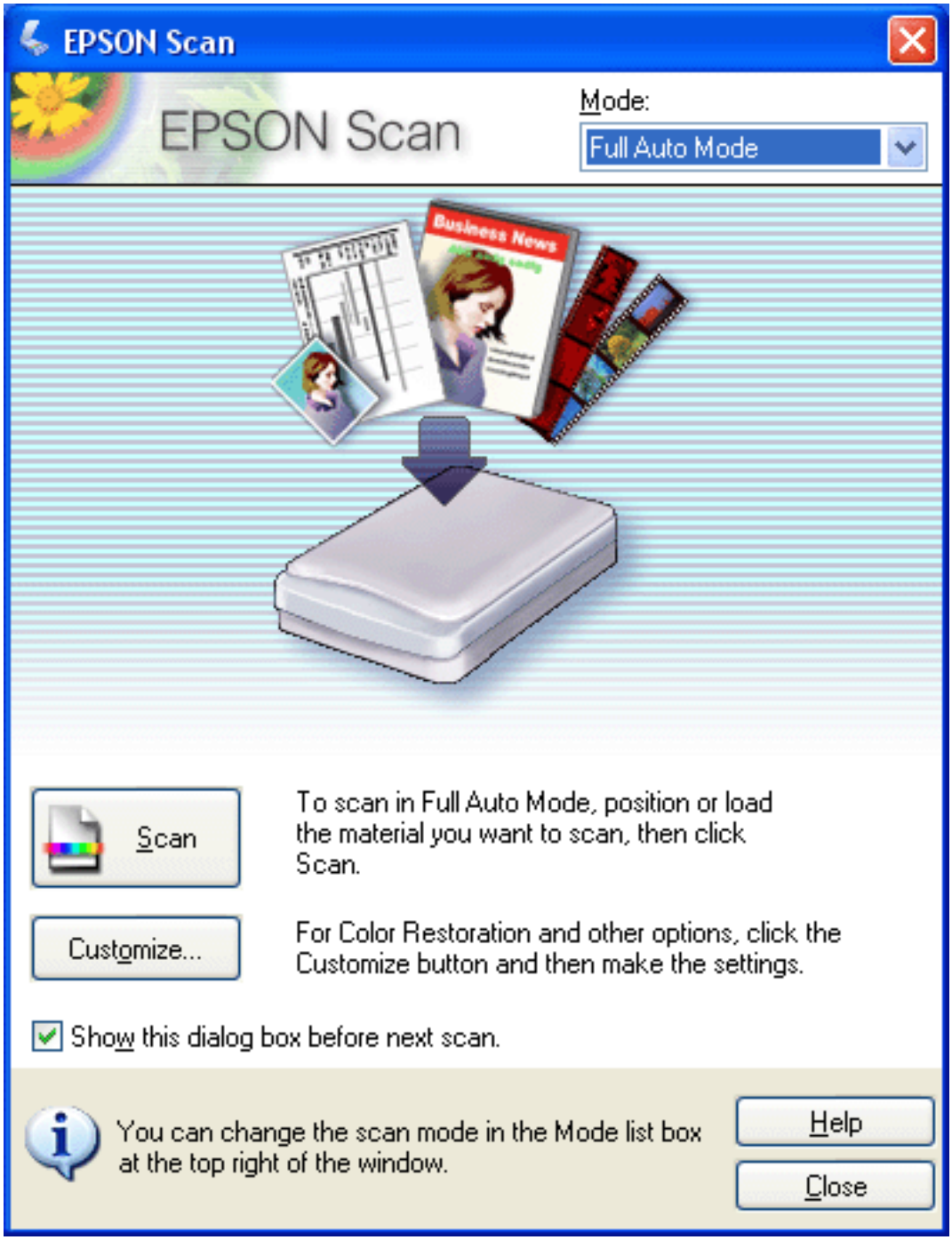
Using Full Auto Mode

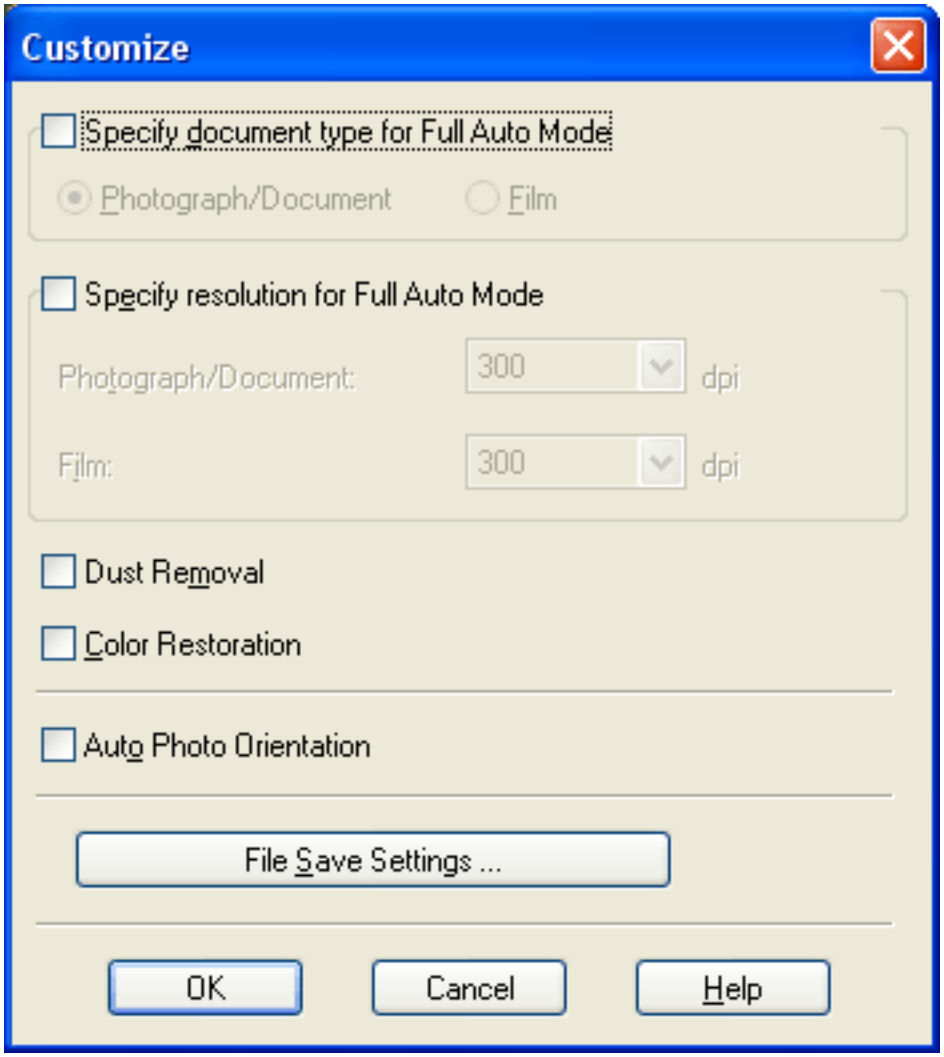
When you start Epson Scan for the first time, it runs in Full Auto Mode and displays the Epson Scan standby window.



Note:

In Full Auto Mode, you can scan only 35mm color negative film strips or color positive slides. To scan other types of film, use Home or Professional Mode.

1 If you want to select a custom resolution, restore faded colors, or remove dust marks, click the **Customize** button. You see the Customize window.



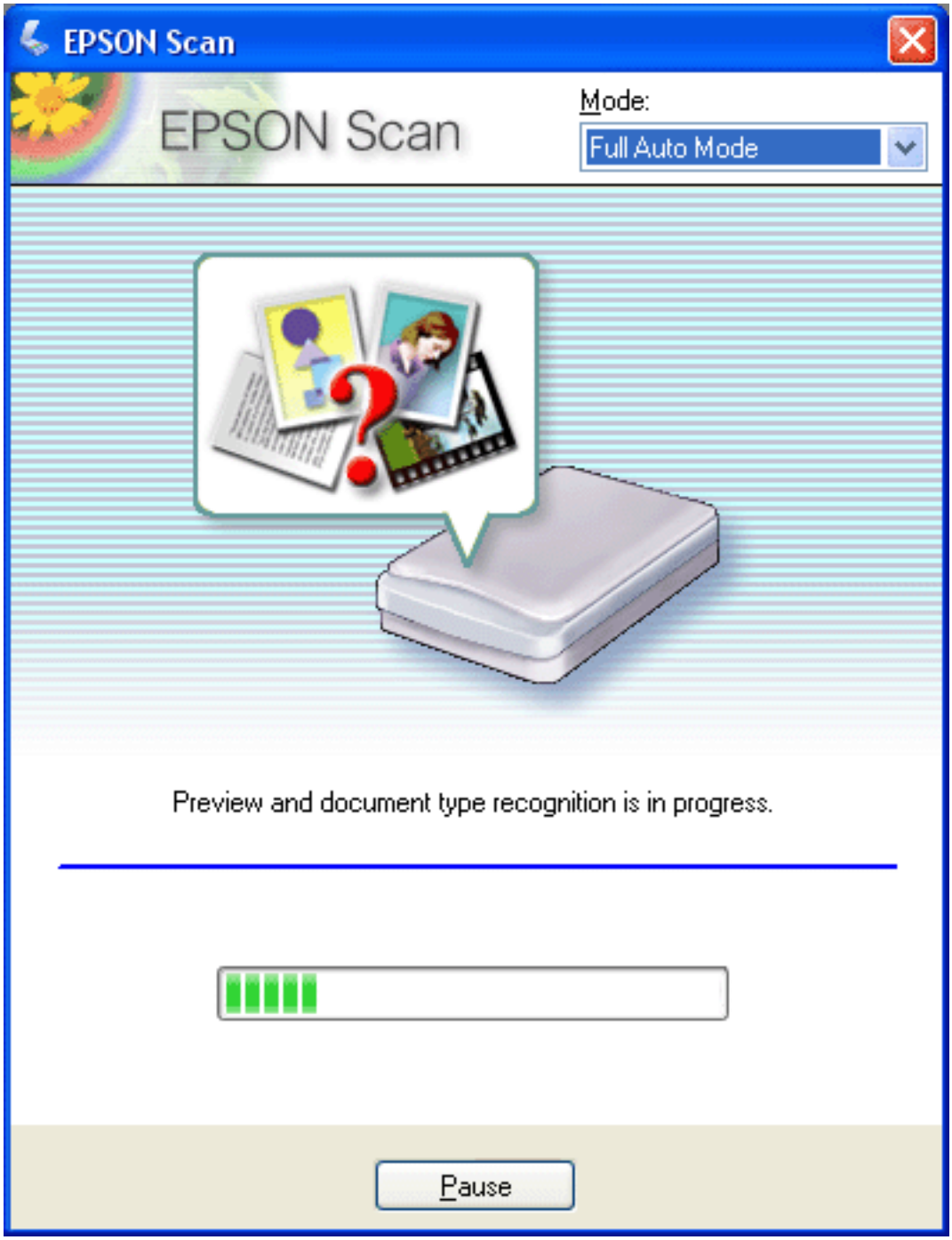
Note:

If you started scanning from a program like Adobe Photoshop Elements, the File Save Settings button is not available in the Customize window.

Select your settings and click **OK**. (For details on selecting settings, click the **Help** button.)

2 Click the **Scan** button. Epson Scan starts scanning in Full Auto Mode.

Epson Scan previews each image in your film strip or each slide, detects whether it is color positive or color negative, and selects the scan settings automatically. After a moment, you see a small preview of each image in the Epson Scan window. (It takes a few minutes to scan a full film strip.)



Note:

- If you need to change any settings, click the **Pause** button. You will return to the Epson Scan standby window.
- If you need to cancel scanning, click the **Cancel** button when it appears.

3 Depending on how you started Epson Scan, the program saves the files to the location you specified or opens the scanned image in your scanning program. See Finishing the Scan for details.

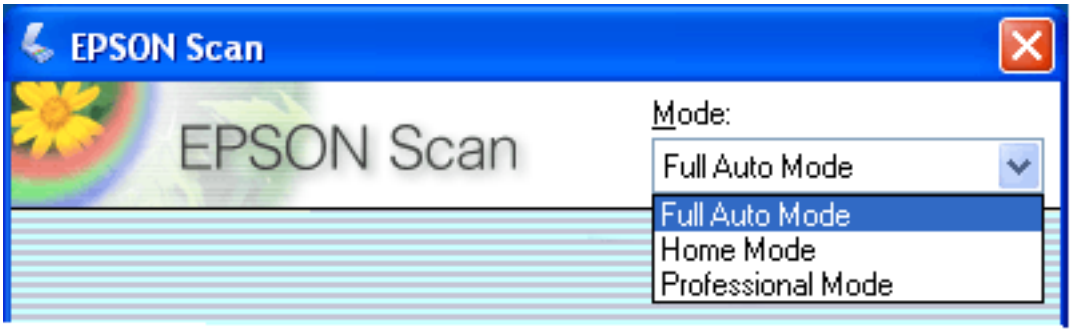
Note:

- If you have a problem scanning your film or slides in Full Auto Mode, try scanning them in Home or Professional Mode instead.
- If you want to change the scan mode, see Changing the Scan Mode.
- If your image is not rotated correctly, see Images Are Rotated Incorrectly.

Top

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 the next time.

For instructions on scanning using these modes, see:

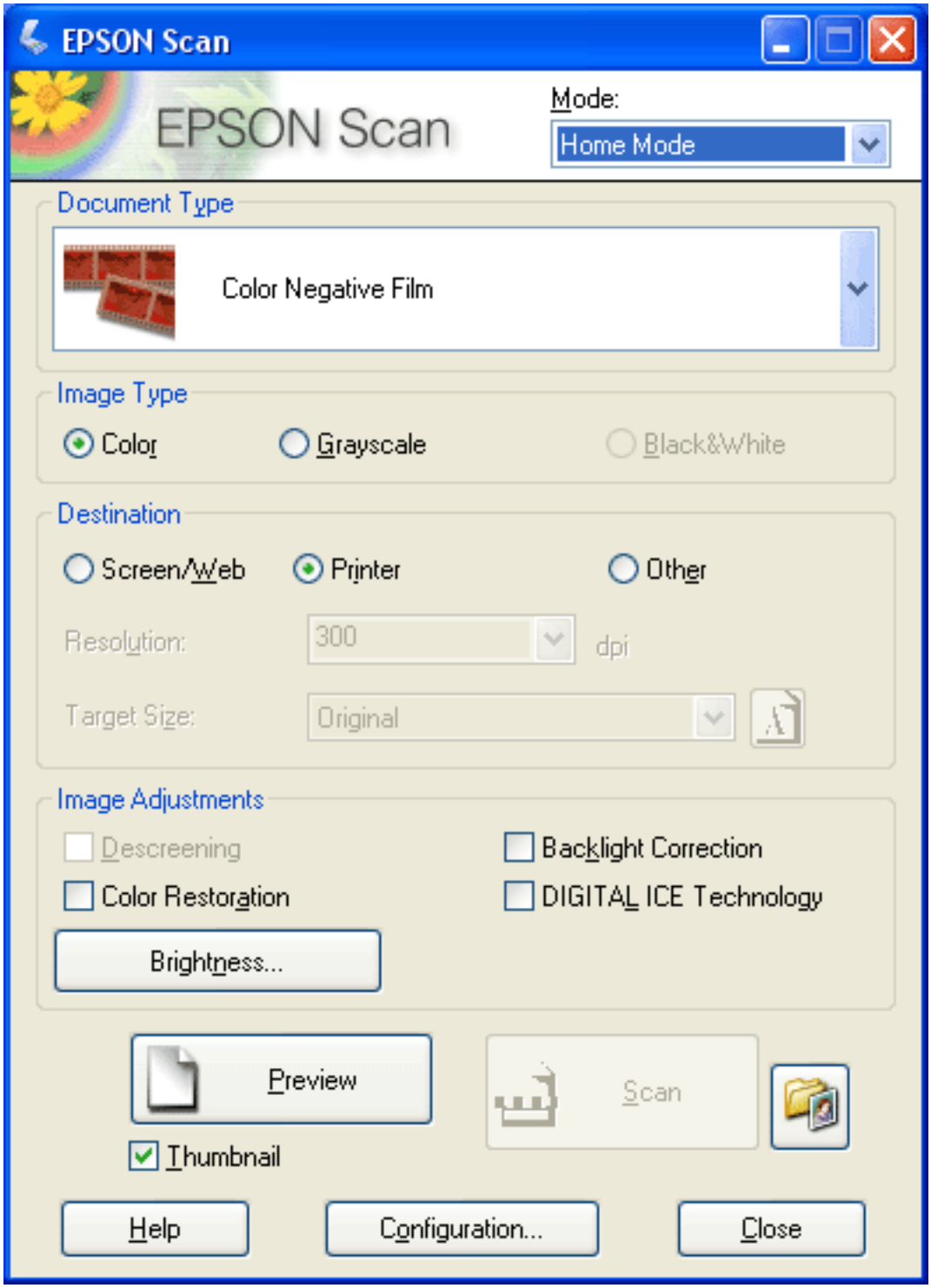
- **Full Auto Mode**: Using Full Auto Mode.
- **Home or Professional Mode**: Selecting Basic Settings.

Top

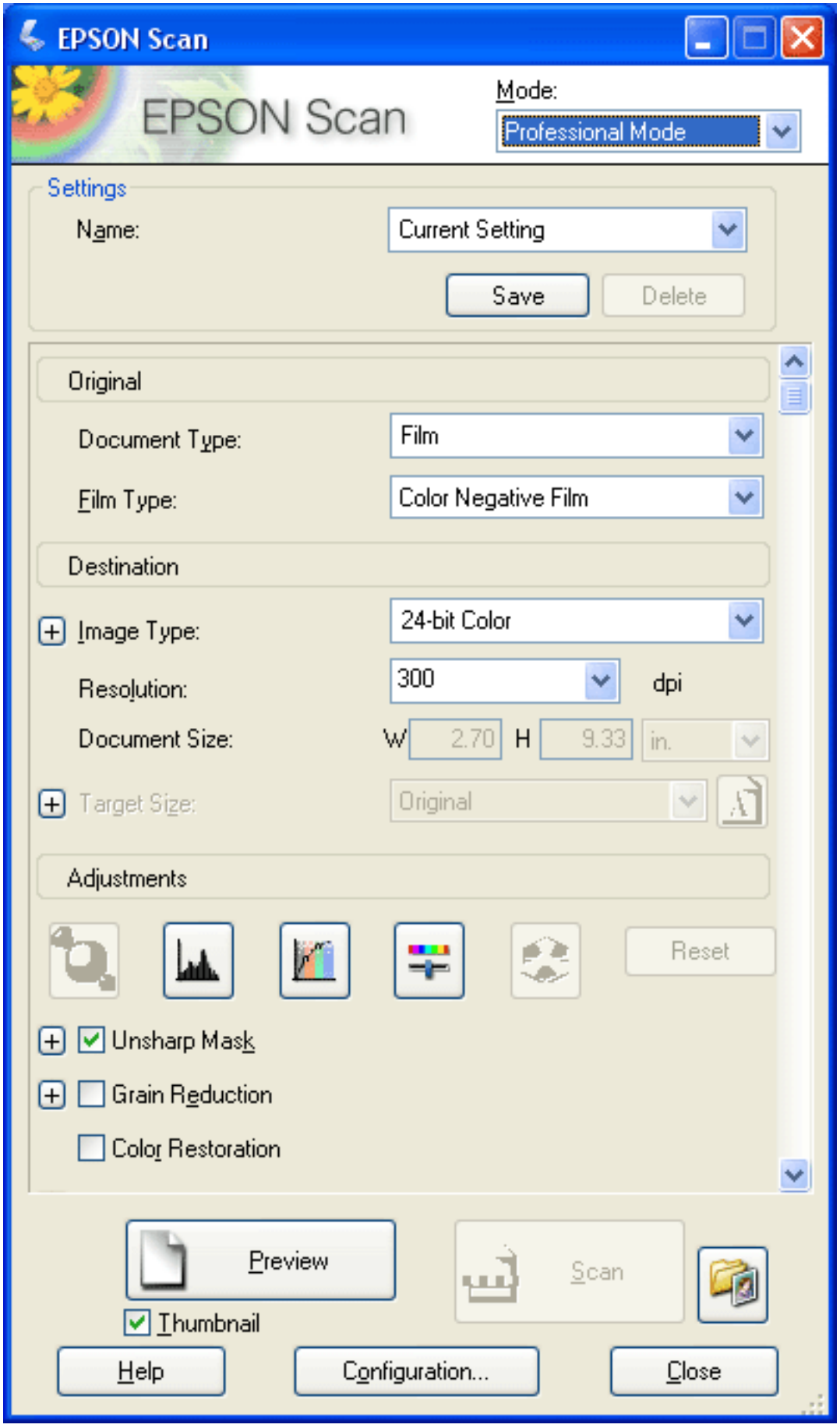
Selecting Basic Settings

When you start Epson Scan in Home or Professional Mode, you see the main Epson Scan window.

Home Mode



Professional Mode



Before you scan your film or slides, you need to select these basic settings.

- Original settings. These tell Epson Scan the type of film or slides you are scanning.
- Destination settings. These tell Epson Scan how you plan to use your scanned images.

Follow these steps to select the basic settings for film or slides in Epson Scan.

1 Do one of the following to select your document type.

Home mode:
Click the arrow to open the Document Type list and select the type of film or slide(s) you are scanning. Select **Color Negative Film, B&W Negative Film**, or **Positive Film** for a film strip, or **Positive Film** for slides. Then click the **Color**, **Grayscale**, or **Black&White** button to match the colors in the original, if necessary.

Professional mode:
Click the arrow to open the Document Type list and select **Film** (for scanning film or slides). Then click the arrow in the Film Type list and select **Color Negative Film, B&W Negative Film**, or **Positive Film** for a film strip, or **Positive Film** for slides.

2 Do one of the following to select your destination setting(s).

Home mode:
In the Destination box, click the button for the way you plan to use the scanned images.

- **Screen/Web** for images you will view only on a computer screen or post on the web.
- **Printer** for images you will be printing.
- **Other** if you want to select a specific resolution for other purposes.

Professional mode:
Click the arrow to open the Image Type list and select the image type you are scanning.

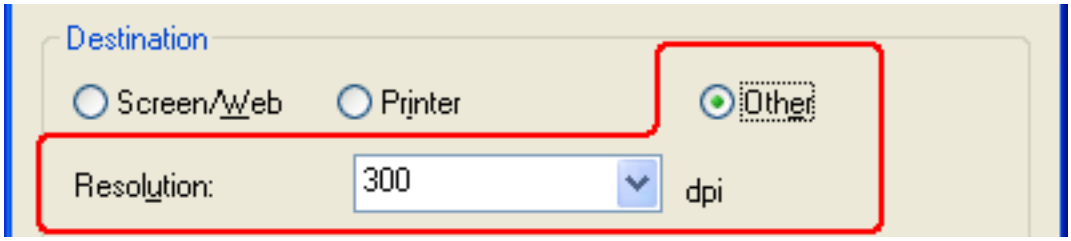
Image Type setting	Type of image you are scanning
48-bit Color	Color photo that you may want to modify in a 48-bit image-editing program If you use this setting, your image file size will be significantly larger than if you use the 24-bit Color or Color Smoothing settings.
24-bit Color	Color photo
Color Smoothing	Color graphics, such as a chart or graph
16-bit Grayscale	Black-and-white photo with many shades of gray If you use this setting, your image file size will be larger than if you use the 8-bit Grayscale setting.
8-bit Grayscale	Black-and-white photo with just a few shades of gray
Black & White	Black-and-white positive film or slides

3 In Home Mode, Epson Scan selects a default resolution setting based on the Destination setting you select. See Selecting the Scan Resolution to continue scanning.

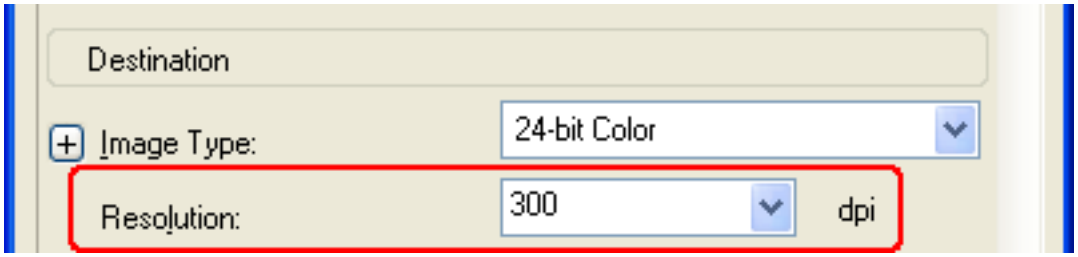
Top

Selecting the Scan Resolution

In Home Mode, you can change the resolution only if you select **Other** as the Destination setting.



In Professional Mode, you can select the resolution you want at any time.



Before you select the scan resolution, you should consider whether you will enlarge your images before or after you scan them. Follow these guidelines.

- **You will not be enlarging the images.**
  If you will scan the images at 100% size or smaller and will not enlarge them later, you can accept the Resolution setting selected by Epson Scan based on your Destination setting (Home Mode only).
- **You will enlarge the images as you scan them (increase the Target Size setting)**.
  If you will enlarge the images in Epson Scan so you can use them at a larger size, you can accept the Resolution setting selected by Epson Scan based on your Destination setting (Home Mode only).
- **You will scan the images at their original size, but then enlarge them later in an image-editing program**.
  If you plan to enlarge your images later in an image-editing program, you need to increase the Resolution setting to retain a high image quality after enlargement. Increase the resolution by the same amount you will increase the image size. For example, if the resolution is 300 dpi (dots per inch), but you will increase the image size to 200% in an image-editing program, change the Resolution setting to 600 dpi in Epson Scan.

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 some 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
Print	300 dpi
Fax	200 dpi
Enlarge after scanning at 100%	Increase Resolution setting by same amount you will increase image size after scanning

After selecting the Resolution, you can preview your images and make any necessary adjustments. See Previewing and Adjusting the Scan Area to continue scanning.

Top

Previewing and Adjusting the Scan Area

Once you have selected your basic settings and resolution in Home or Professional Mode, you can preview your images and select or adjust the area of the images you want to scan. Epson Scan displays the preview images in a separate Preview window on your screen.

There are two types of preview.

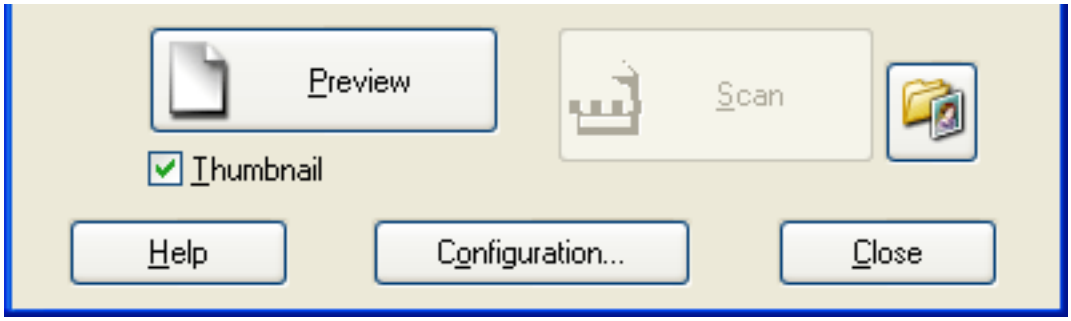
- **Normal preview** displays your previewed images in their entirety. You must select the scan area and make any image quality adjustments manually.
- **Thumbnail preview** displays your previewed images as thumbnails. Epson Scan automatically locates the edges of your scan area and applies automatic exposure settings to the images. This is the default preview type when scanning film or slides.

Note:

If you are scanning negative slides, you must use the normal preview.

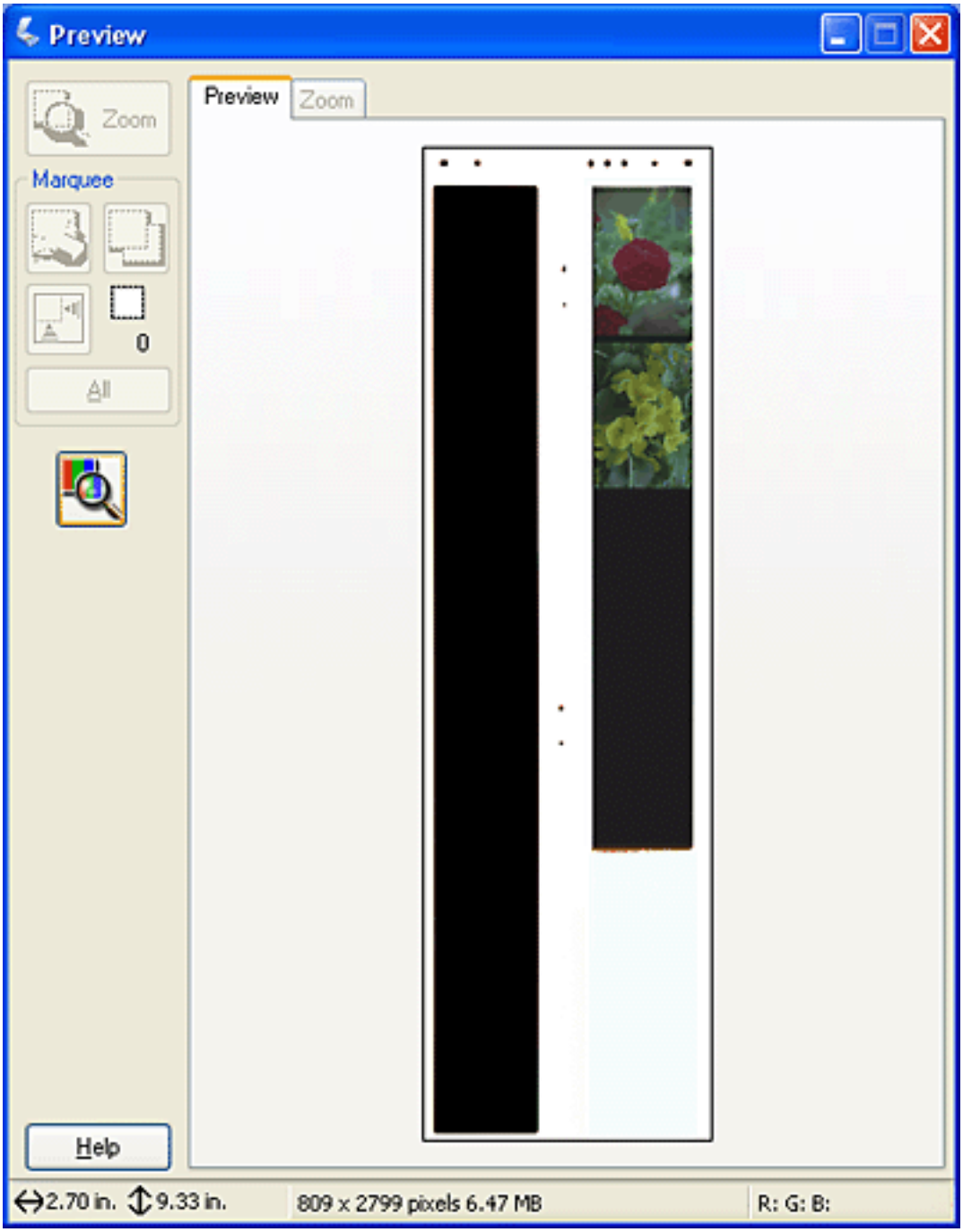
Follow these steps to preview your images in Home or Professional Mode.

1. Click the **Preview** button toward the bottom of the Epson Scan window. If you want to change the preview type, click the **Thumbnail** checkbox under the **Preview** button, if it is available.

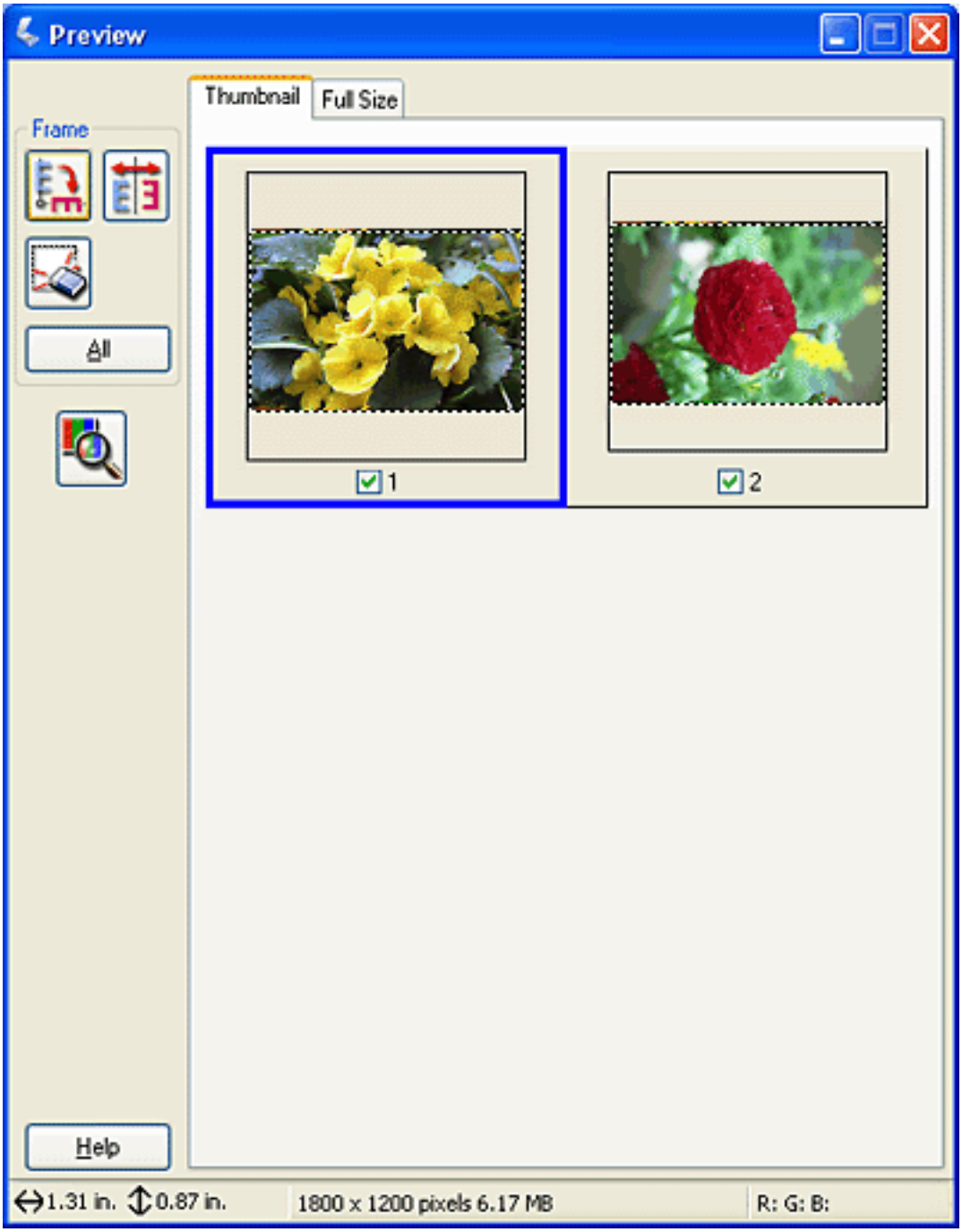


Epson Scan prescans your images and displays them in one of the following Preview windows.

Normal preview



Thumbnail preview



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

- To select your scan area, draw a marquee that marks the edges of the scan area on each image. You can move and resize the marquees to change the scan areas as necessary. See Adjusting the Scan Area (Marquee) 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 for instructions. You can then copy the marquee and place it on each image you will scan at that size.

- To zoom in on an image, click inside the scan area and click the **Zoom** button. Epson Scan prescans again and displays a larger preview on the Zoom tab. (Your other images are still previewed at the original size on the Preview tab.)
- To adjust the image quality, click the image(s) you want to modify and make the adjustments as described in Adjusting the Color and Other Image Settings.

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

- To zoom in on an image, double-click its thumbnail, or click the thumbnail and then click the **Full Size** tab near the top of the Preview window. (This feature is only available when you are scanning multiple images at the same time.)
- To rotate an image or flip it horizontally (like a mirror image), click its thumbnail and then click the rotation icon or mirroring icon.
- To adjust the scan area to crop your image, you can create and move a marquee that marks the edges of your scan. See Adjusting the Scan Area (Marquee) for instructions.
- To adjust the image quality, click the image(s) you want to modify and make the adjustments as described in Adjusting the Color and Other Image Settings. If you want to apply the adjustments to all your images, click the **All** button.

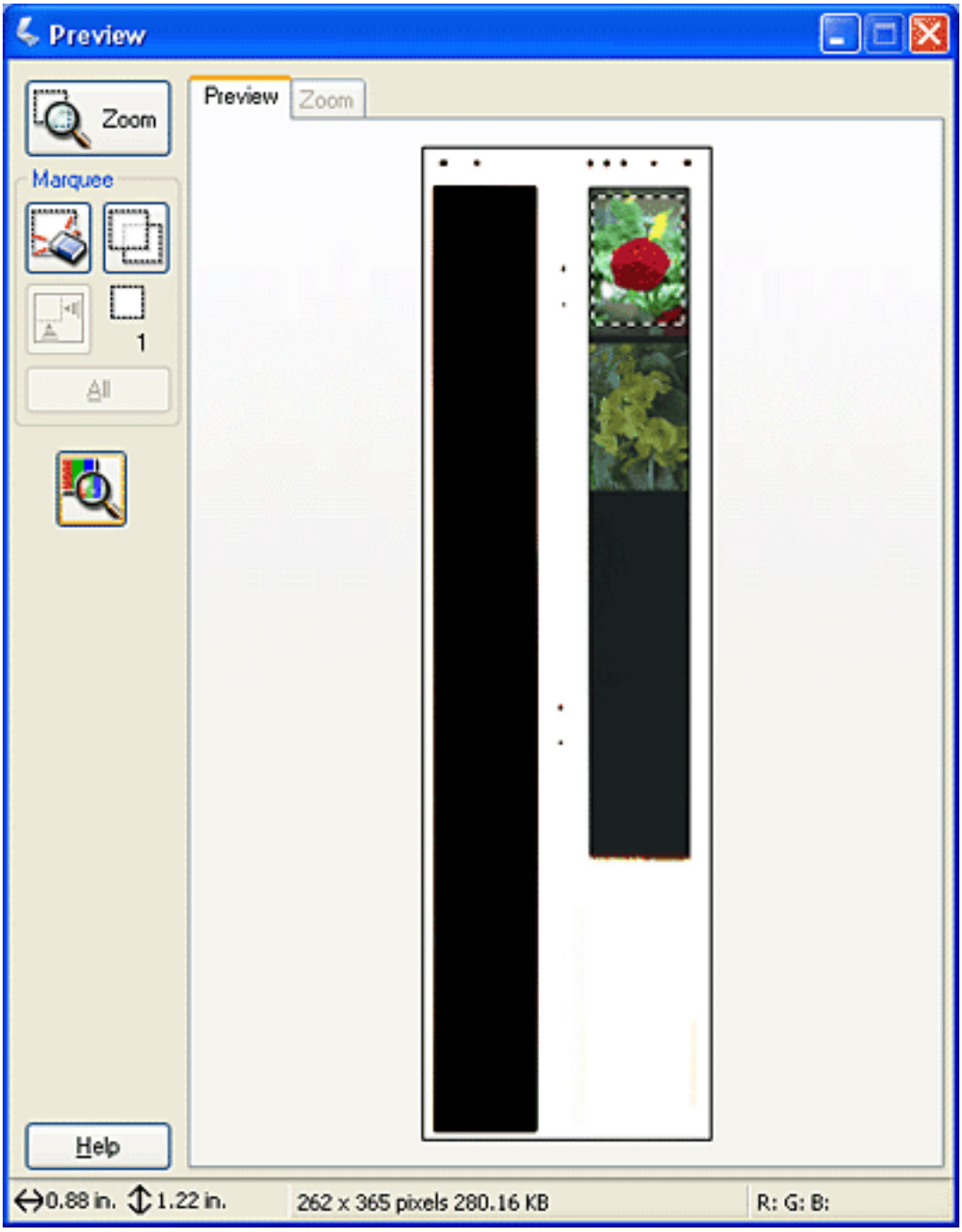
Note:

If your image is not rotated correctly, see Images Are Rotated Incorrectly.

4 When you have finished adjusting the scan areas, and modifying the color and image settings, you can select the size of your scanned image, if you have not already selected it. See Selecting the Scan Size for instructions.

Adjusting the Scan Area (Marquee)

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



You can move the marquee, adjust its size, and create multiple marquees on one image (normal preview only) to scan different image areas in separate scan files. Follow these steps.

Note for Home Mode users:

When you use the Thumbnail preview with film or slides, 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.

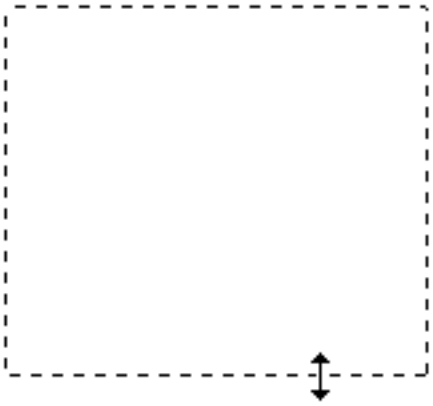
1. To draw a marquee, move your cursor over a preview image. The pointer becomes a set of cross-hairs.

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 movement of the marquee to vertical or horizontal only, hold down the **Shift** key as you move the marquee. To restrict sizing 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 To draw multiple marquees (up to 50; normal preview only), you can 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 the **All** button in the Preview window before you scan; otherwise, only the area inside of the last marquee you drew will be scanned.
- If you are scanning multiple slides or images in a film strip using the Normal preview, you must draw a separate marquee over each image in order to scan the images as separate files.

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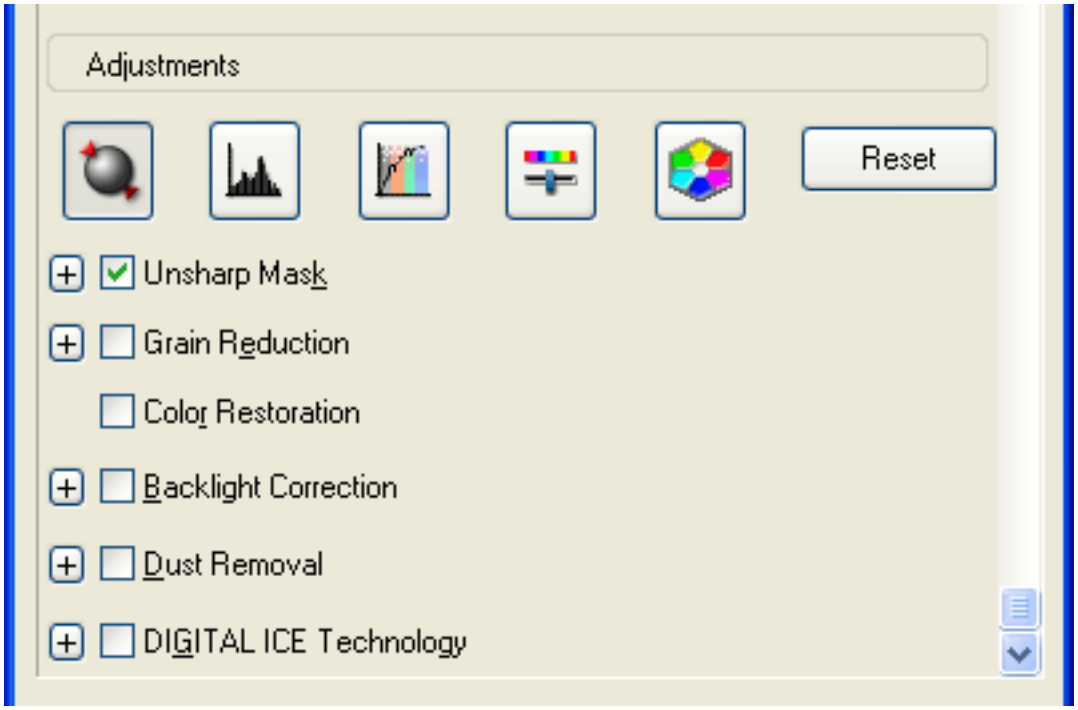
Adjusting the Color and Other Image Settings

Once you have previewed your images 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. In Professional Mode, you may need to scroll down to the Adjustments area of the main Epson Scan window.



The table below describes the settings available in Home and/or Professional Mode. For details on adjusting these settings, click **Help** in the Epson Scan window.

When you are finished making adjustments, you can size your scanned images (see Selecting the Scan Size) or go ahead and scan (see Finishing the Scan).

Setting	Available mode(s) and description
Color Restoration	Home and Professional: Restores the colors in faded photos automatically.
Dust Removal	Professional only: 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.
Backlight Correction	Home and Professional: Removes shadows from photos that have too much background light. In Professional Mode, the level of Backlight Correction is adjustable.
Grain Reduction	Professional only: Reduces the effect of surface roughness from film and slide images. The level of grain reduction is adjustable.

Digital ICE Technology and Digital ICE Lite Technology	Home and Professional: Removes dust or scratch marks from color film or slide images. Digital ICE Technology is a hardware-based dust removal method that is more accurate than the Dust Removal feature, but it is slower and requires more system resources. Digital ICE Lite Technology is available in Professional Mode only.
Brightness	Home and Professional: Adjusts the overall image lightness and darkness. In Home Mode, click the **Brightness** button to access the Brightness setting. In Professional Mode, click the Image Adjustment button to access the Brightness setting.
Contrast	Home and Professional: Adjusts the difference between the light and dark areas of the overall image. In Home Mode, click the **Brightness** button to access the Contrast setting. In Professional Mode, click the Image Adjustment button to access the Contrast setting.
Saturation	Professional only: Adjusts the density of colors in the overall image. Click the Image Adjustment button to access the Saturation setting.
Color Balance	Professional only: Adjusts the balance of red, green, and blue colors in the overall image. Click the Image Adjustment button to access the Color Balance setting.
Auto Exposure	Home: Automatically applied. Professional: Automatically applied. To adjust the level of exposure, click the **Configuration** button, click the **Color** tab, and adjust the **Auto Exposure Level** slider. If you don't want Auto Exposure automatically applied, deselect **Continuous Auto Exposure** in the Color tab. Then, click the Auto Exposure button (Professional Mode only) or reselect **Continuous Auto Exposure** whenever you want to apply this setting to an image.
Unsharp Mask	Home: Automatically applied. Professional: Turned on by default. Unsharp Mask makes the edges of image areas clearer for an overall sharper image. The level of sharpness is adjustable. Turn off to leave softer edges.

Histogram	Professional only: Provides a graphical interface for adjusting highlight, shadow, and gamma levels individually. For advanced users only. Click the Histogram Adjustment button to access the Histogram setting.
Tone Correction	Professional only: Provides a graphical interface for adjusting tone levels individually. For advanced users only. Click the Tone Correction button to access the Tone Correction setting.
Color Palette	Professional only: 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. Click the Color Palette button to use the Color Palette settings. See Using the Color Palette Function (Professional Mode Only) for instructions.
Threshold	Home and Professional: 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 **Positive Film** as the Document Type or Film Type setting and **Black & White** as the Image Type setting.) In Home Mode, click the **Brightness** button to access the Threshold setting.

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 click 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 the **Configuration** button 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 the **Reset** button (if available), turn off the setting, or preview your image again.

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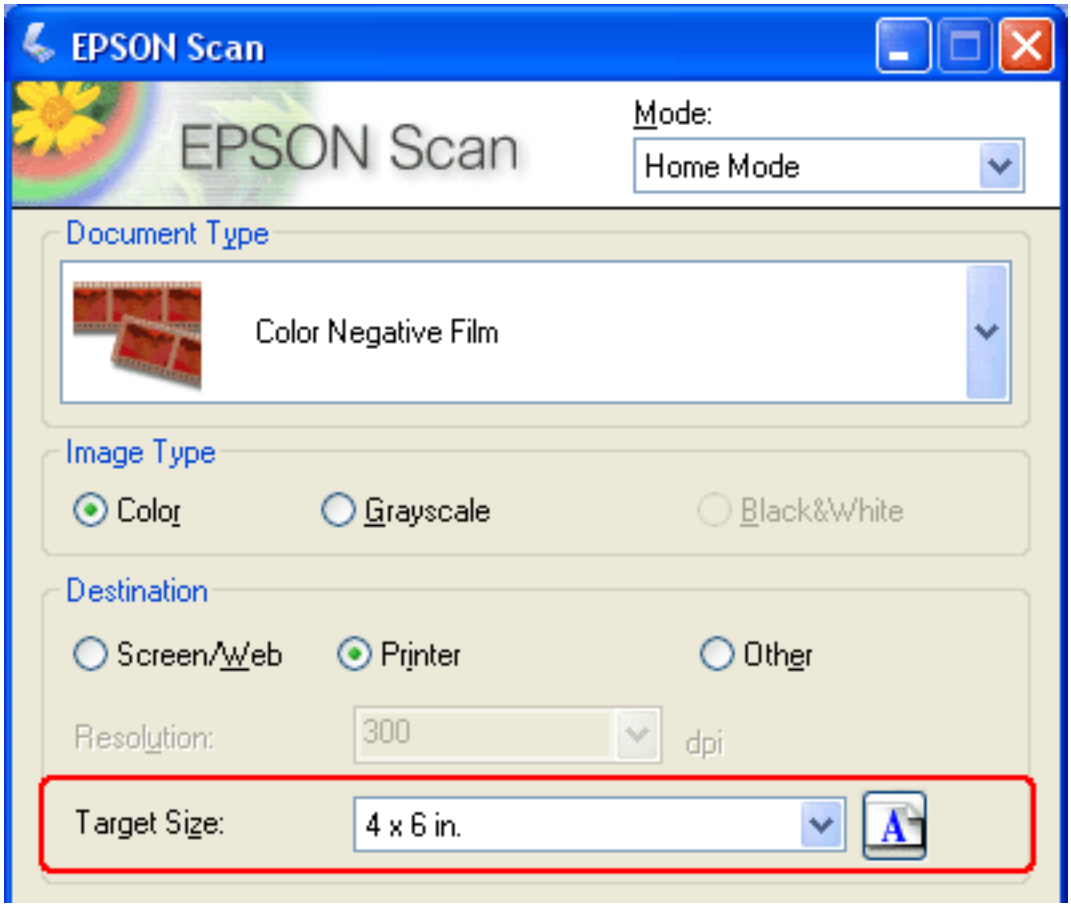
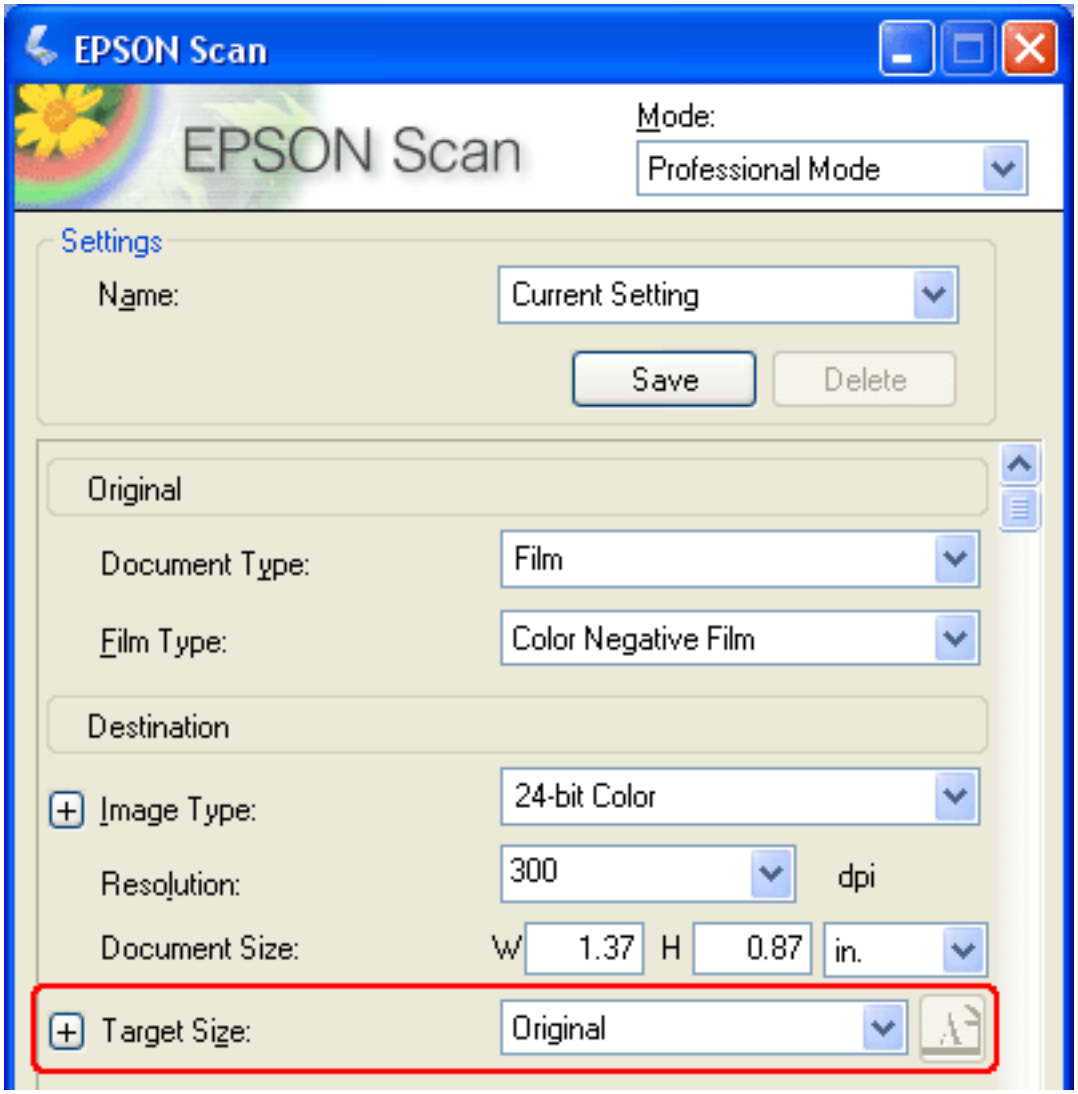
Selecting the Scan Size

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 in Home or Professional Mode.

Home Mode



Professional Mode



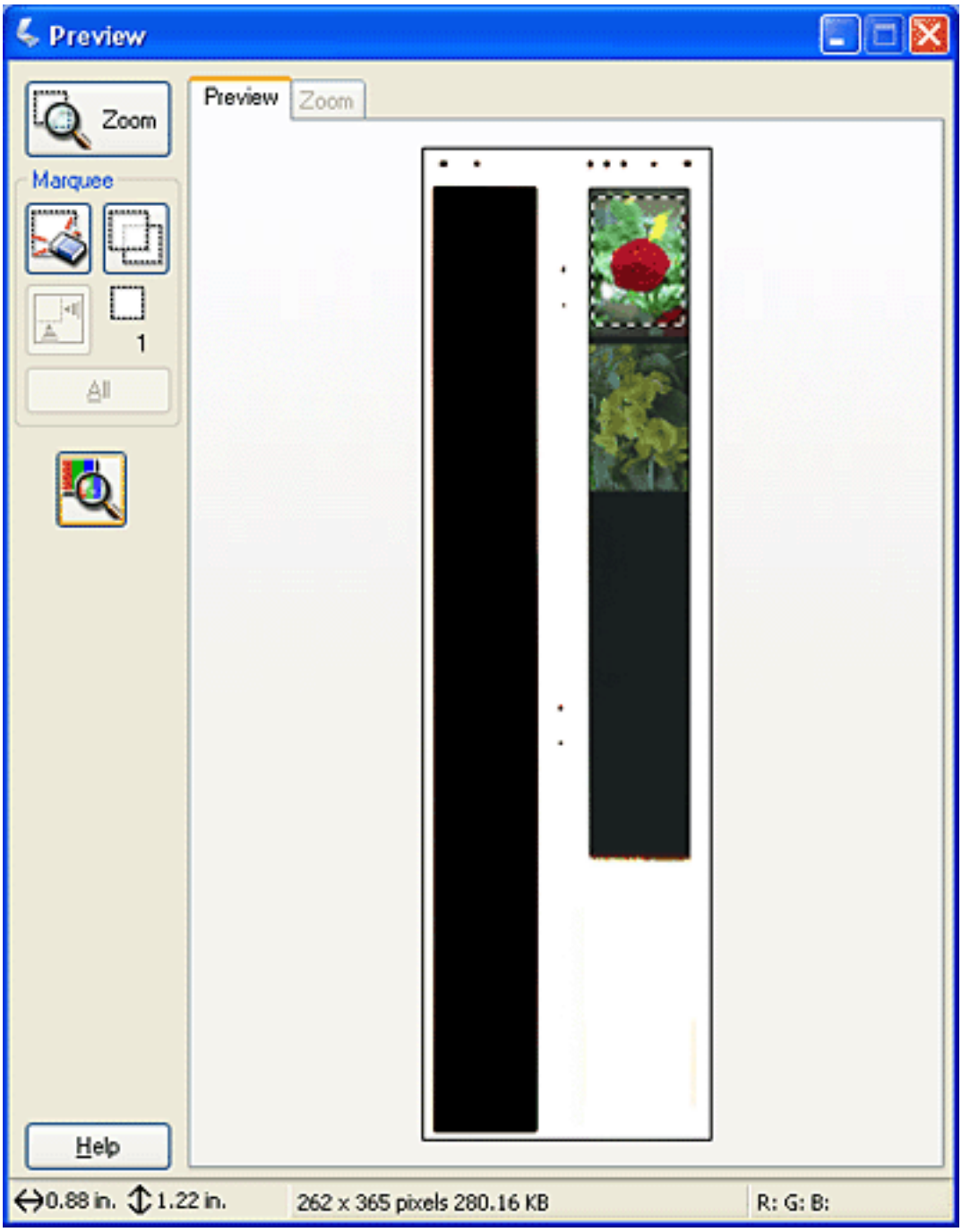
If you are going to scan your image to a particular size, you should select the Target Size setting after previewing it, but before adjusting your scan area (indicated by the marquee). This sets the scan area to the correct proportions so your image will not be cropped unexpectedly.

For instructions on previewing your images, see Previewing and Adjusting the Scan Area. Then follow these steps to select the Target Size setting.

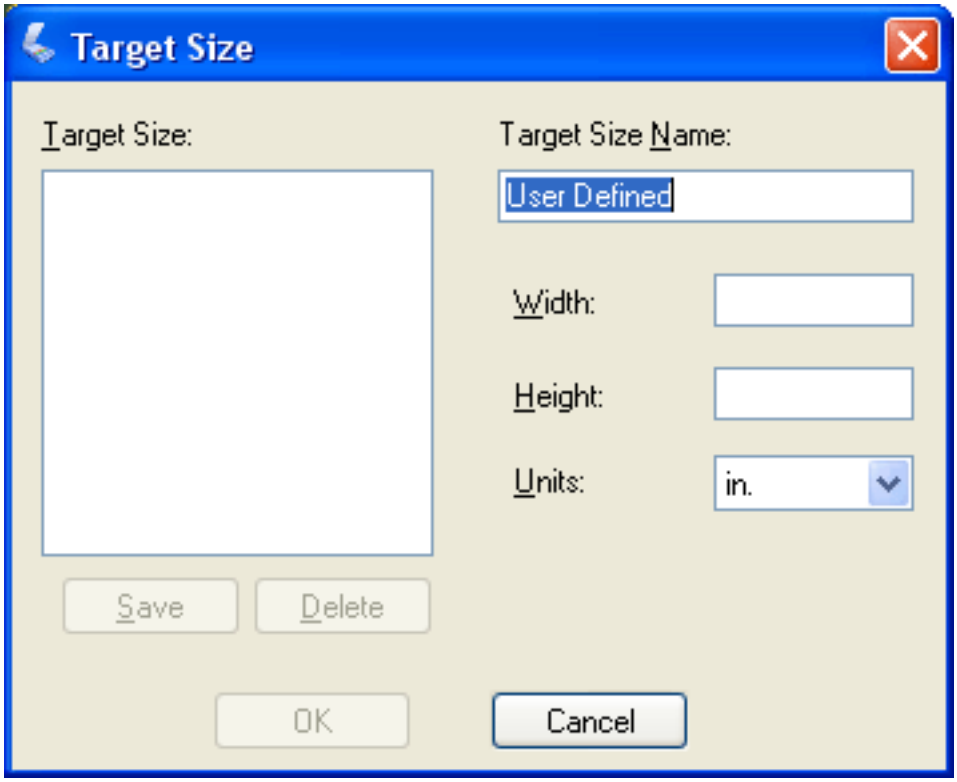
Note for Home Mode users:

When you use the Thumbnail preview with film or slides, Epson Scan automatically selects a target size of 4 × 6 in. for you. If you need to select a different target size, complete all of the steps in this section. If you do not need to adjust any target sizes, go to step 5.

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

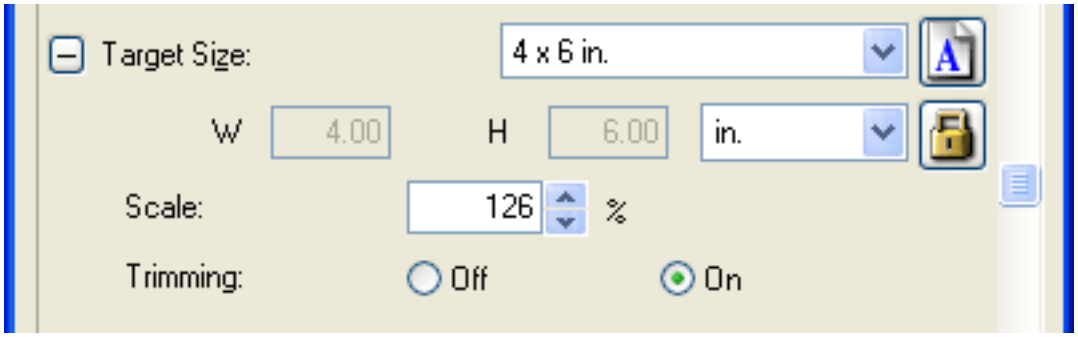


2 If you need to create a scan size that is not in the Target Size list, you can create a custom size. Click the arrow in the list and select **Customize**. You see the Target Size window.



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

3 In Professional Mode, you can fine-tune the size using additional tools. Click the **+** (Windows) or ▶ (Mac OS X) 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.

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 Adjusting the Scan Area (Marquee). 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. (Not available if you are scanning at the **Original** Target Size.)

Note:

For more information about using the Target Size tools, click **Help** in the Epson Scan window.

5 Now you are ready to scan your images. Click the **Scan** button, and see Finishing the Scan for instructions.

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Finishing the Scan

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

- If you started your scan by pressing the Start button or running Epson Scan as a standalone program and you used Full Auto Mode, your scanned image is saved in the file format and location you chose. If you did not choose any file save settings, it is saved as a JPEG file in the Pictures or My Pictures folder.
- If you started your scan by pressing the Start button or running Epson Scan as a standalone program and you used Home or Professional Mode, 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 for details.
- If you started your scan from a scanning program such as Adobe Photoshop Elements, your scanned images open in the program window. If Epson Scan does not automatically close after scanning, click **Close** to close the Epson Scan window and view your images in the program.

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Restoring Color

Using the Color Palette Function (Professional Mode Only)

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

Follow these steps to restore colors using Epson Scan.

1. Place your original. See one of these sections for instructions.

   Documents or photos: Placing Documents or Photos

   Film or slides: Placing Film or Slides

2. Start Epson Scan. See one of these sections for instructions.

   Documents or photos:

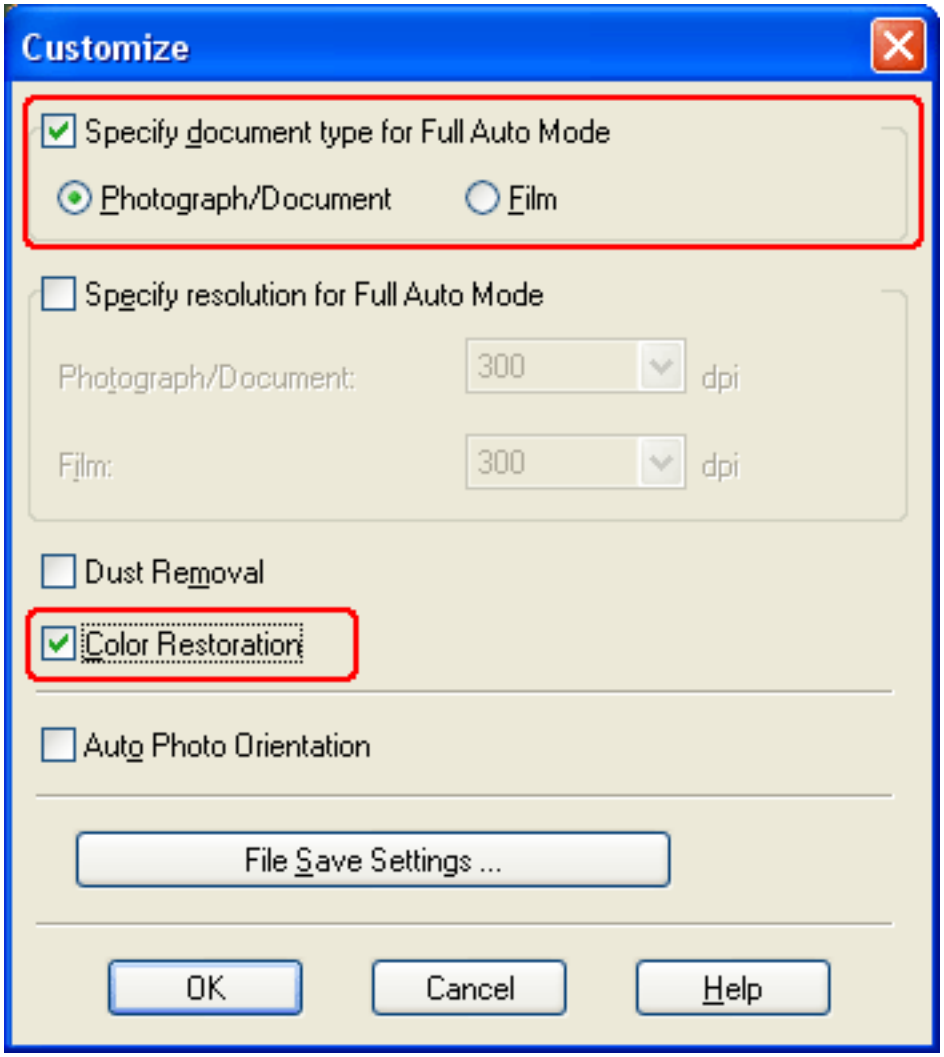
   - Starting a Scan With the Scanner Buttons
   - Starting a Scan With Epson Scan
   - Starting a Scan With Another Scanning Program

   Film or slides:

   - Starting a Scan With the Scanner Buttons
   - Starting a Scan With Epson Scan
   - Starting a Scan With Another Scanning Program

3 When the Epson Scan window appears, do one of the following, depending on the currently selected scan mode.

- **Home or Professional Mode**: Go to step 4.
- **Full Auto Mode:** Click the **Customize** button, then click the **Specify document type for Full Auto Mode** checkbox and select the type of original you are scanning, if necessary. Then click the **Color Restoration** checkbox and click **OK**. Continue with step 9.



Note:

- For details on using Full Auto Mode when scanning photos, see Using Full Auto Mode. For details on using Full Auto Mode when scanning film or slides, see Using Full Auto Mode.
- In Full Auto Mode, you can only scan 35mm color negative film strips or color positive slides. To scan other types of film, use Home or Professional Mode.
- To change the scan mode when scanning documents or photos, see Changing the Scan Mode. To change the scan mode when scanning film or slides, see Changing the Scan Mode.

4 Select the basic settings for the type of original(s) you are scanning, then select the destination setting for the way you will use your image(s). See one of these sections for instructions.

Documents or photos: Selecting Basic Settings

Film or slides: Selecting Basic Settings

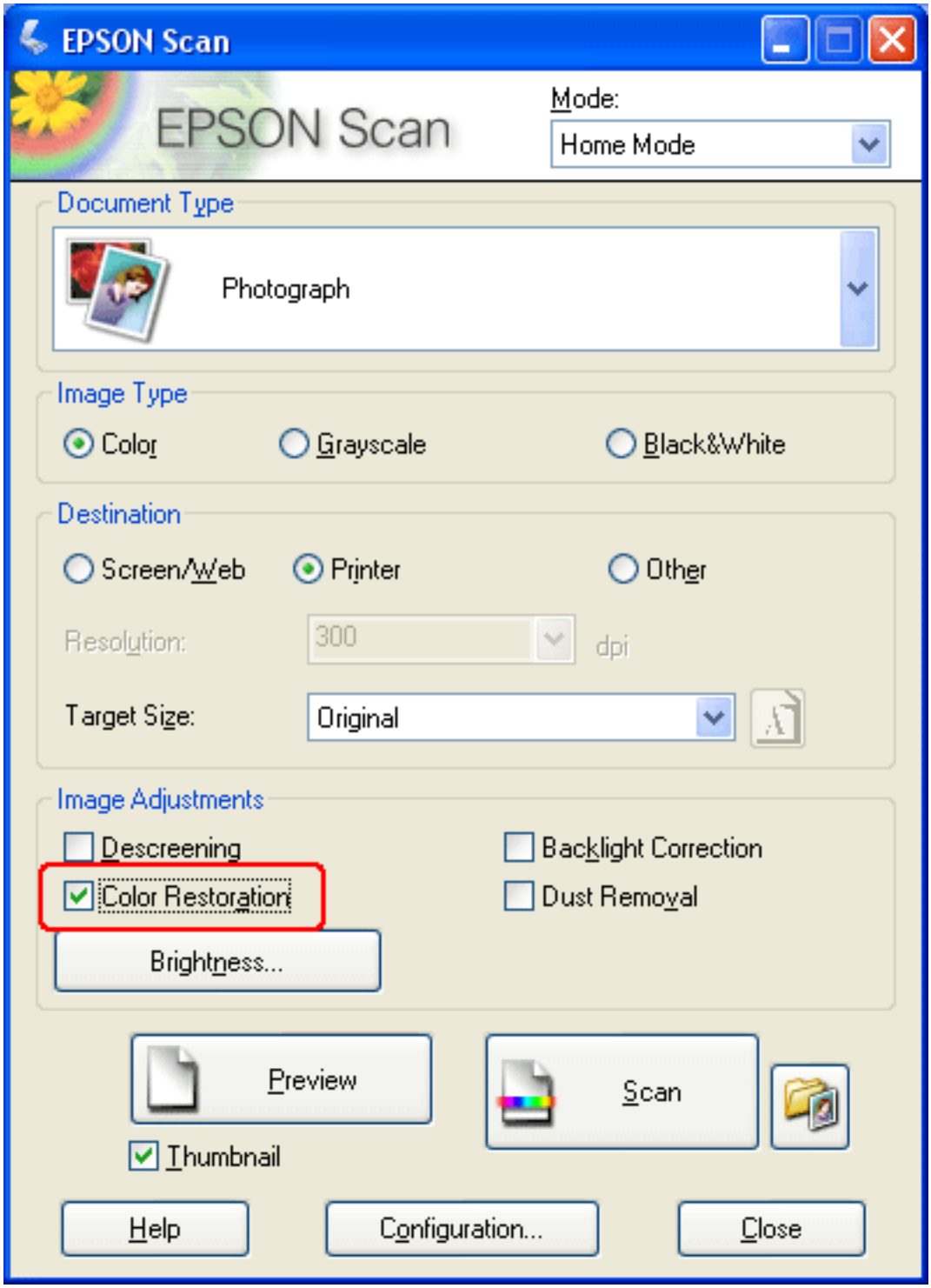
5 Click the **Preview** button to preview your image(s), then select your scan area. See one of these sections for instructions.

Documents or photos: Previewing and Adjusting the Scan Area

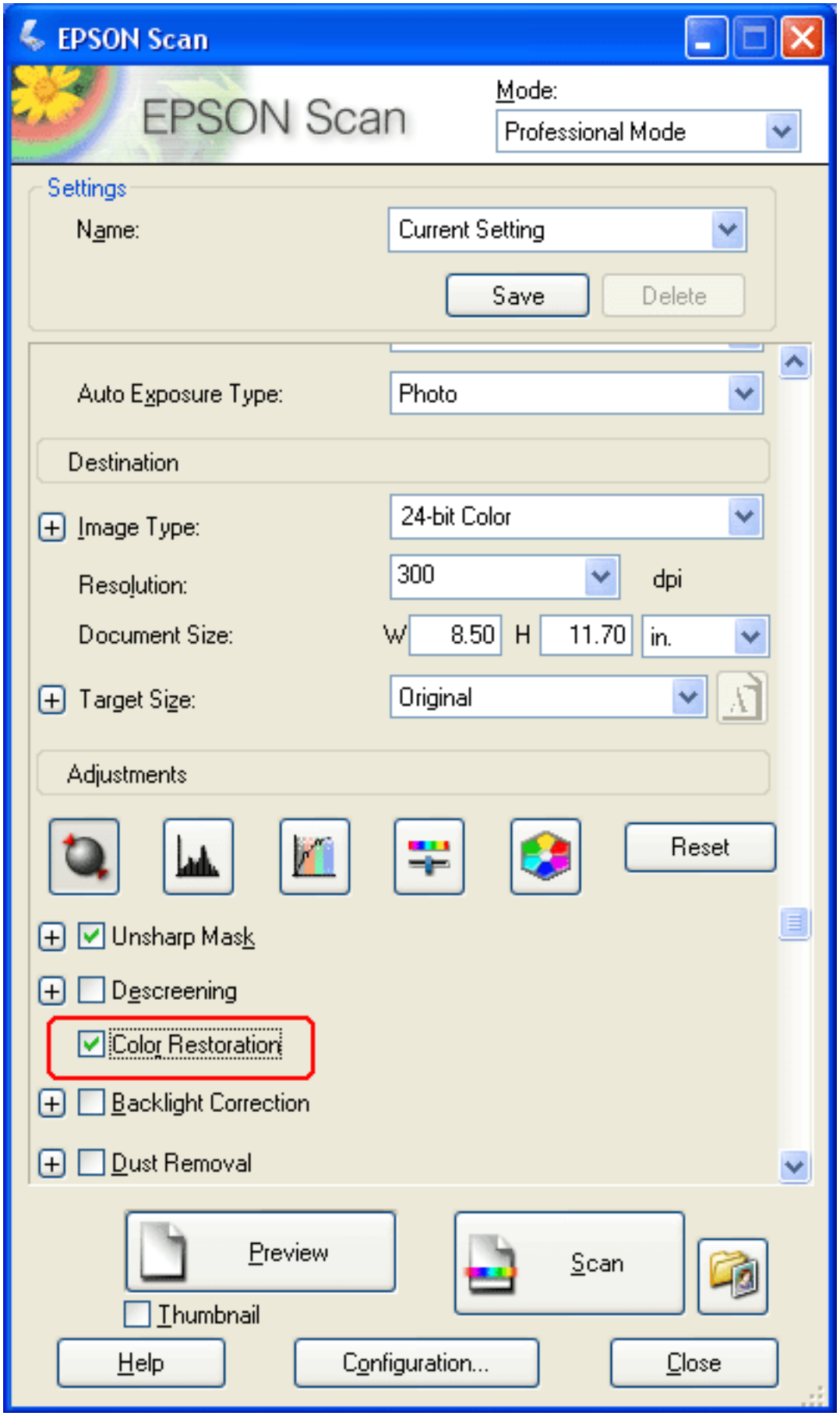
Film or slides: Previewing and Adjusting the Scan Area

6 Do one of the following to select the Color Restoration option.

- **Home Mode**: Click the **Color Restoration** checkbox.



- **Professional Mode**: Scroll down to the Adjustments area and click the **Color Restoration** checkbox.


EPSON Scan
EPSON Scan
Mode:
Professional Mode
Settings
Name:
Current Setting
Save
Delete
Auto Exposure Type:
Photo
Destination
Image Type:
24-bit Color
Resolution:
300
dpi
Document Size:
W
8.50
H
11.70
in.
Target Size:
Original
Adjustments
Reset
Unsharp Mask
Descreening
Color Restoration
Backlight Correction
Dust Removal
Preview
Scan
Thumbnail
Help
Configuration...
Close

7 Make any other necessary image adjustments. See one of these sections for instructions.

Documents or photos: Adjusting the Color and Other Image Settings

Film or slides: Adjusting the Color and Other Image Settings

8 Size your image as necessary. See one of these sections for instructions.

Documents or photos: Selecting the Scan Size

Film or slides: Selecting the Scan Size

9 Click the **Scan** button to scan and restore the color in your image(s).

What happens next depends on how you started Epson Scan. See one of these sections for details.

Documents or photos: Finishing the Scan

Film or slides: Finishing the Scan

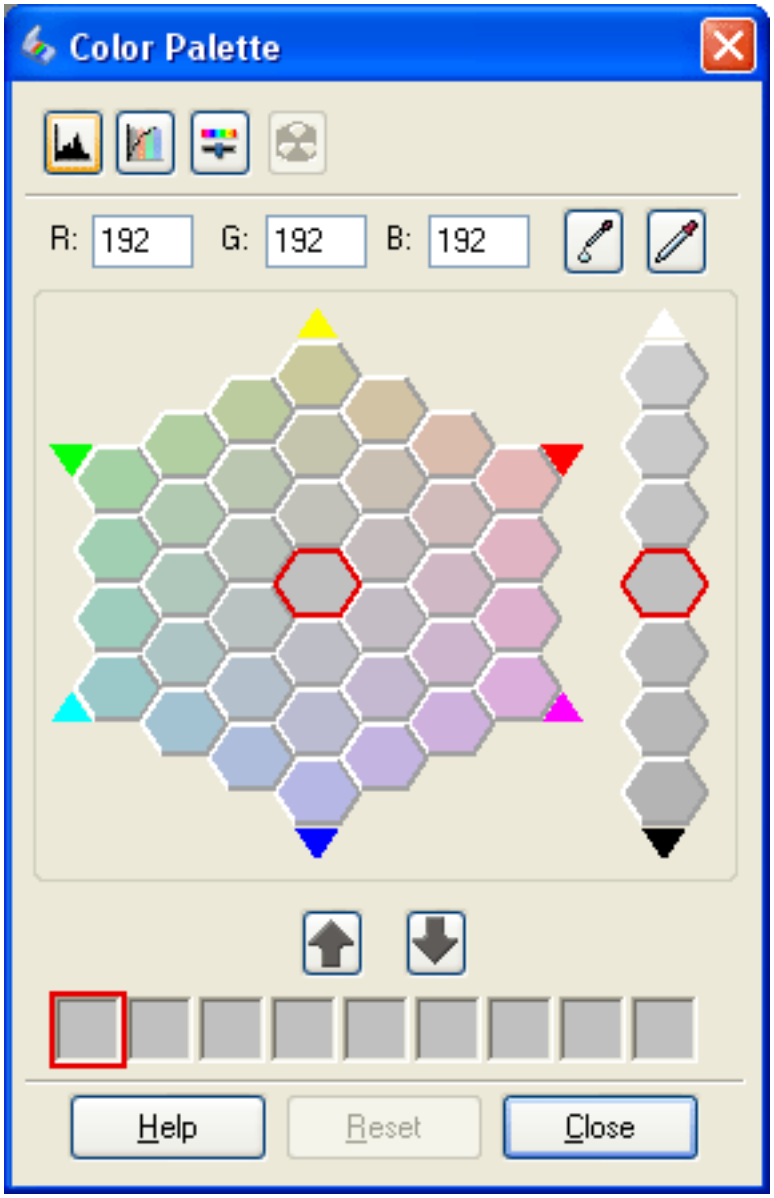
Using the Color Palette Function (Professional Mode Only)

Follow the steps in these sections to fine tune the colors in your images using the Color Palette feature in Epson Scan.

Sampling a Color From an Image

1 If necessary, click the **Preview** button to preview your image. Then click the Color Palette button.

The Color Palette window appears.



2. Click the Color Extractor button. 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 button. The color appears in the save area.

Note:

To load a previously saved color, select the color and click the Apply to Palette button.

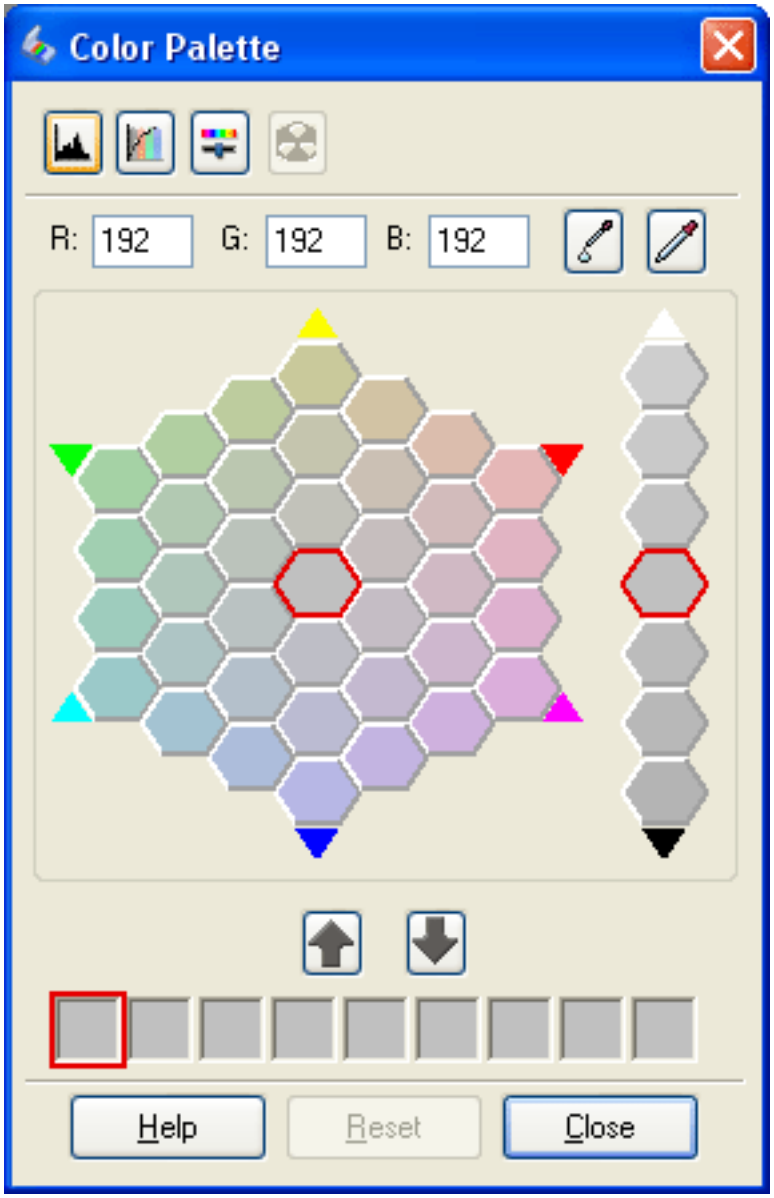
6 When you are finished adjusting the color, click the **Close** button to return to the Epson Scan window.

For further details on using the Color Palette feature, click the **Help** button.

Applying a Color to an Image

1 If necessary, click the **Preview** button to preview your image. Then click the Color Palette button.

The Color Palette window appears.



2 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 button. 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 button. The color appears in the save area.

Note:

To load a previously saved color, select the color and click the Apply to Palette button.

6 When you are finished adjusting the color, click the **Close** button to return to the Epson Scan window.

For further details on using the Color Palette feature, click the **Help** button.

Top

Removing Dust Marks

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

Note:

- Before scanning your originals, carefully remove any dust that you can see on them.
- 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 Film and Slides Using Digital ICE Technology.
- Do not use Dust Removal to scan film or slides that do not contain dust or scratch marks; otherwise your scanned image may be distorted or blurred.
- For more accurate, hardware-based dust or scratch removal from your color film or slides, you can use the Digital ICE Technology feature. See Removing Dust and Scratch Marks from Film and Slides Using Digital ICE Technology for details.

Follow these steps to remove dust marks using Epson Scan.

1 Place your original on the scanner. See one of these sections for instructions.

Documents or photos: Placing Documents or Photos

Film or slides: Placing Film or Slides

2 Start Epson Scan. See one of these sections for instructions.

Documents or photos:

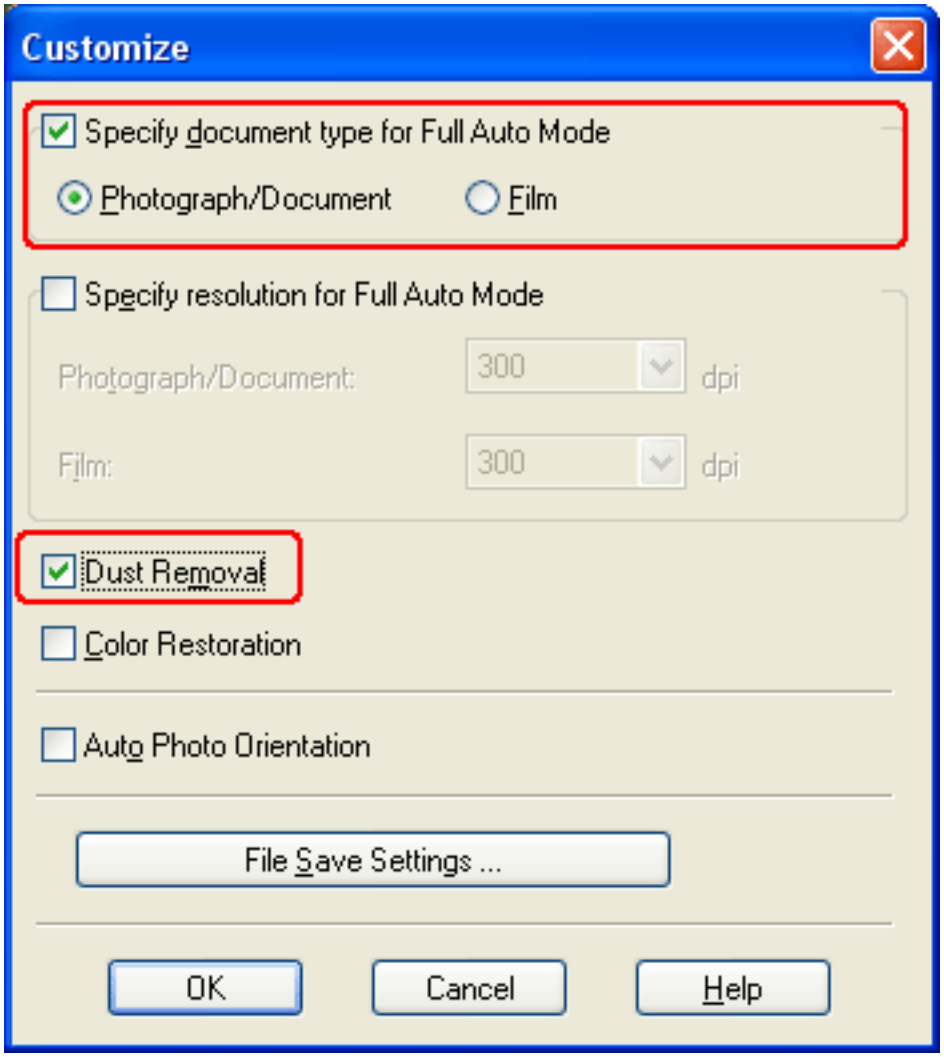
- Starting a Scan With the Scanner Buttons
- Starting a Scan With Epson Scan
- Starting a Scan With Another Scanning Program

Film or slides:

- Starting a Scan With the Scanner Buttons
- Starting a Scan With Epson Scan
- Starting a Scan With Another Scanning Program

3 When the Epson Scan window appears, do one of the following, depending on the currently selected scan mode.

- **Home Mode and Professional Mode**: Go to step 4.
- **Full Auto Mode:** Click the **Customize** button, then click the **Specify document type for Full Auto Mode** checkbox and select the type of original, if necessary. Then click the **Dust Removal** checkbox and click **OK**. Continue with step 9.



Note:

- For details on using Full Auto Mode when scanning documents or photos, see Using Full Auto Mode. For details on using Full Auto Mode when scanning film or slides, see Using Full Auto Mode.
- In Full Auto Mode, you can only scan 35mm color negative film strips or color positive slides. To scan other types of film, use Home or Professional Mode.
- To change the scan mode when scanning documents or photos, see Changing the Scan Mode. To change the scan mode when scanning film or slides, see Changing the Scan Mode.

4 Select the basic settings for the type of your original(s), then select the destination setting for the way you will use your image(s). See one of these sections for instructions.

Documents or photos: Selecting Basic Settings

Film or slides: Selecting Basic Settings

5 Click the **Preview** button to preview your image(s), then select your scan area. See one of these sections for instructions.

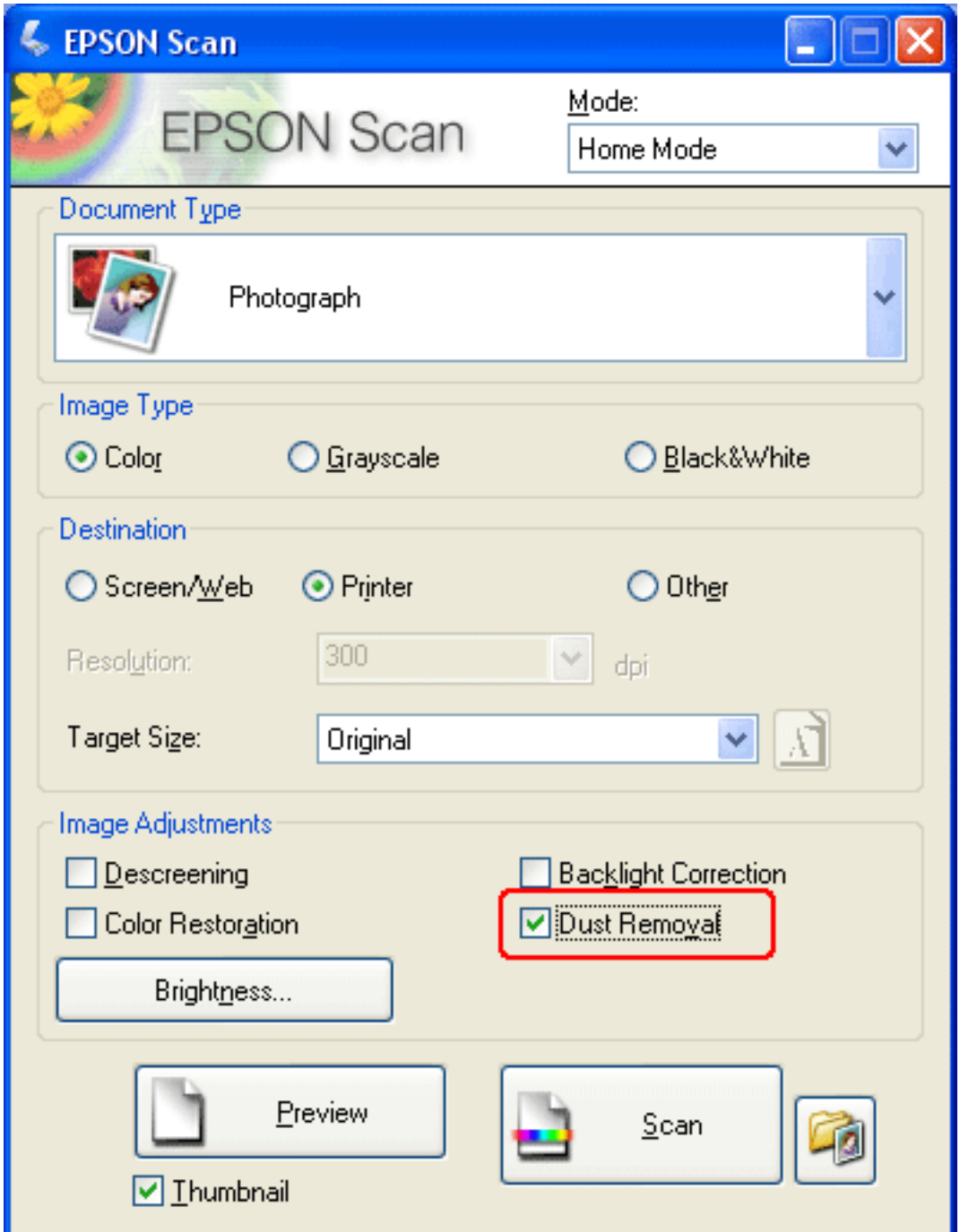
Documents or photos: Previewing and Adjusting the Scan Area

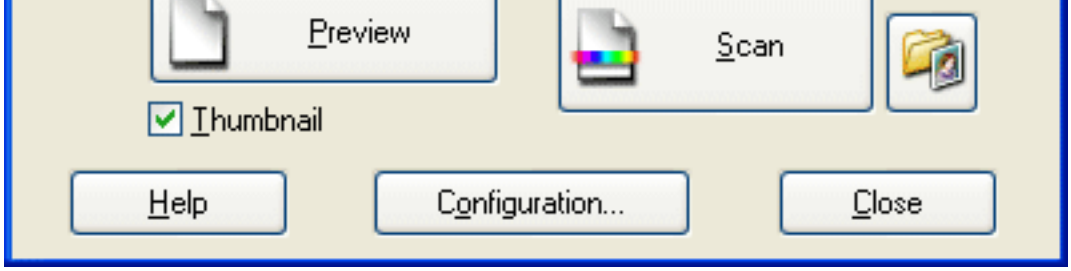
Film or slides: Previewing and Adjusting the Scan Area

6 Do one of the following to select the Dust Removal option.

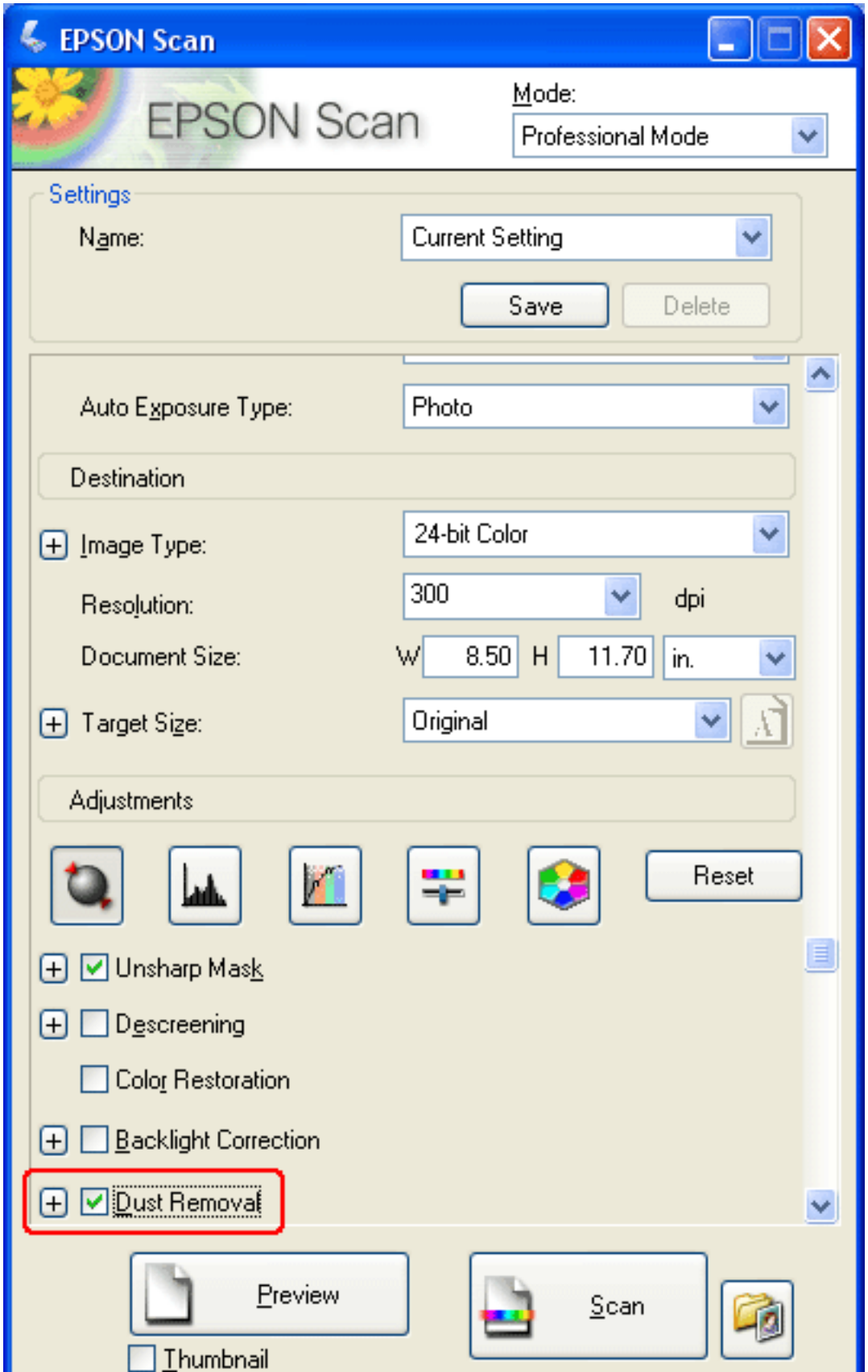
- **Home Mode:** Click the **Dust Removal** checkbox.
- **Professional Mode:** Scroll down to the Adjustments area and click the **Dust Removal** checkbox. If you want to increase or decrease the level of the dust removal effect, click the **+** (Windows) or ▶ (Mac OS X) button next to the option and select a setting in the **Level** list.

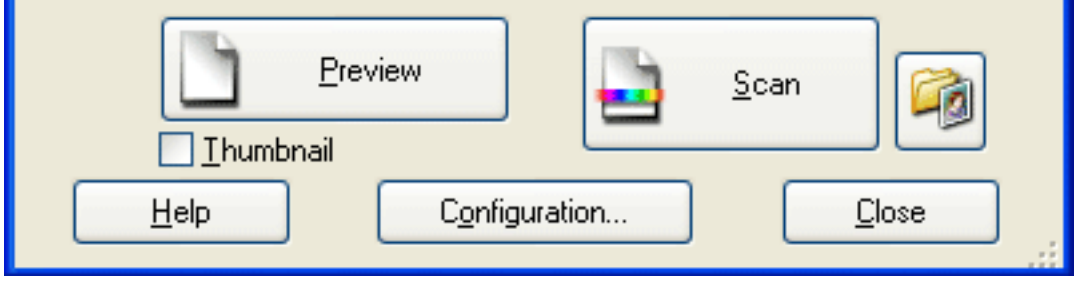
Home Mode:





Professional Mode:





Note:

- You can reduce the appearance of surface roughness in your film or slide(s) by clicking the **Grain Reduction** checkbox. Click the **+** (Windows) or ▶ (Mac OS X) button and select a **Level** setting to adjust its effect, if necessary.
- The result of the dust removal does not appear in the image in the Preview window. You must scan the image first.

7 Make any other necessary image adjustments. See one of these sections for instructions.

Documents or photos: Adjusting the Color and Other Image Settings

Film or slides: Adjusting the Color and Other Image Settings

8 Size your image as necessary. See one of these sections for instructions.

Documents or photos: Selecting the Scan Size

Film or slides: Selecting the Scan Size

9 Click the **Scan** button to scan and remove dust marks in your image(s).

What happens next depends on how you started Epson Scan. See one of these sections for details.

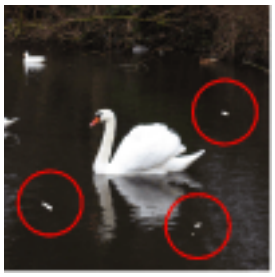
Documents or photos: Finishing the Scan

Film or slides: Finishing the Scan

Removing Dust and Scratch Marks from Film and Slides Using Digital ICE Technology

Digital ICE Technology Specifications

Your scanner and its Epson Scan software are equipped with the Digital ICE Technology and Digital ICE Lite Technology features that remove dust or scratch marks from color film or slides.

Original image	Digital ICE Technology applied
	

Digital ICE Technology is a hardware-based dust removal method that is more accurate than the Dust Removal feature. Digital ICE Technology can remove dust or scratch marks without affecting the image composition. However, it takes longer to scan using Digital ICE Technology and also uses more of your system resources. For faster (but less accurate) dust removal, try removing dust marks using the Dust Removal feature. See Removing Dust Marks for details.

Note:

- Digital ICE Technology is not available in Full Auto Mode.
- You cannot use Dust Removal and Digital ICE Technology at the same time.
- 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, you must use the Digital ICE Technology feature.

You can use Dust Removal or Digital ICE Technology on the following types of film or slides:

Film type	Dust Removal	Digital ICE Technology
Color negative film	Yes	Yes

Color positive film or slides	Yes	Yes *
Monochrome negative film	Yes	No **
Monochrome positive film or slides	Yes	No

* Kodachrome film is not supported.

** Only chromogenic monochrome negative film is supported.

Before using Digital ICE Technology, make sure your system meets the requirements in Digital ICE Technology Specifications.

Follow these steps to remove dust or scratch marks from film or slides using Epson Scan's Home or Professional Mode:

1. Place your original film strip or slide(s) on the scanner. See Placing Film or Slides.

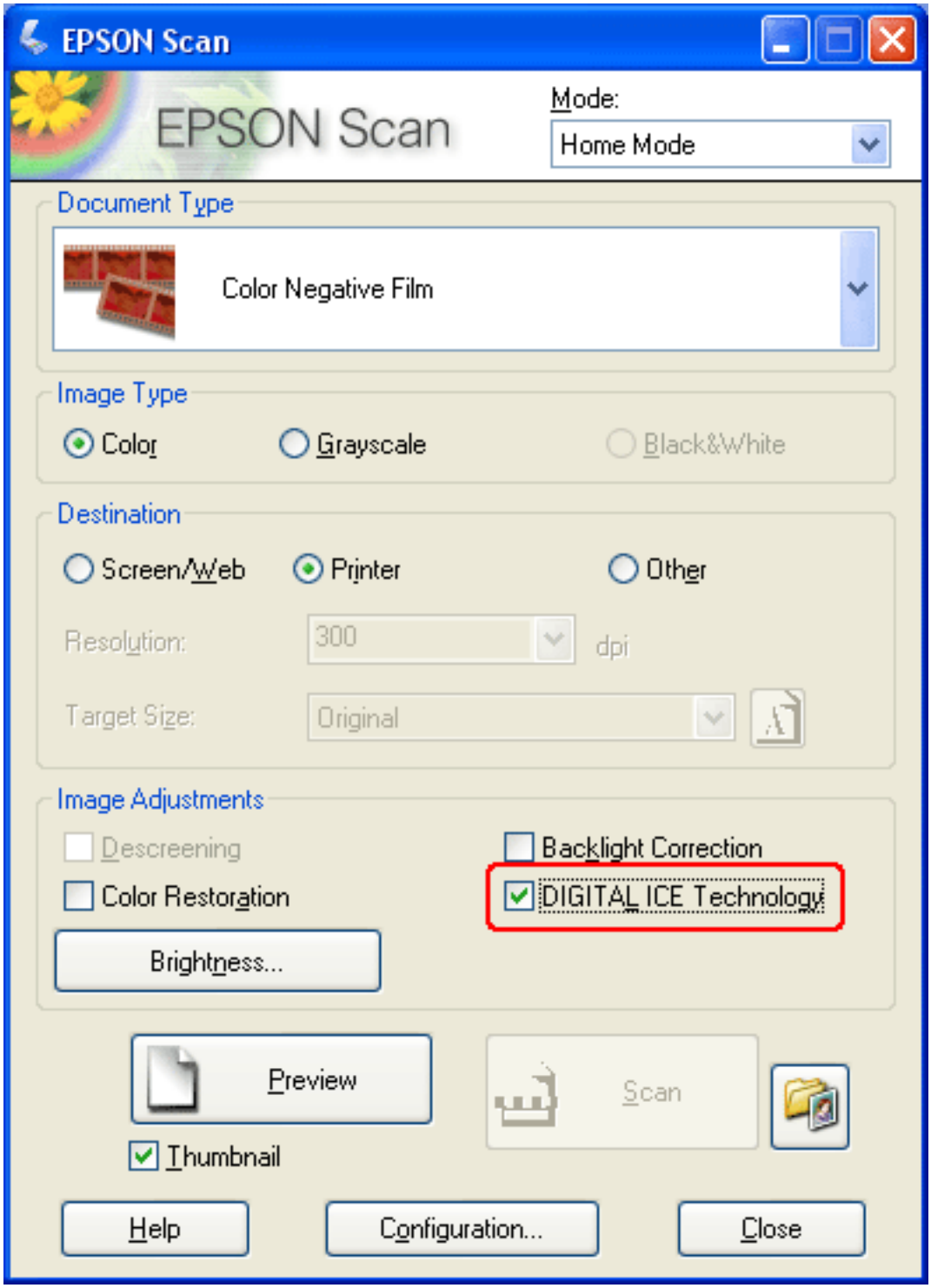
2. Start Epson Scan. See one of these sections for instructions:
   - Starting a Scan With the Scanner Buttons
   - Starting a Scan With Epson Scan
   - Starting a Scan With Another Scanning Program

3. When the Epson Scan window appears, set the scan mode to **Home Mode** or **Professional Mode**. Then select the basic settings for your film strip or slide(s) and select the destination setting for the way you will use your image(s). See Selecting Basic Settings for instructions.

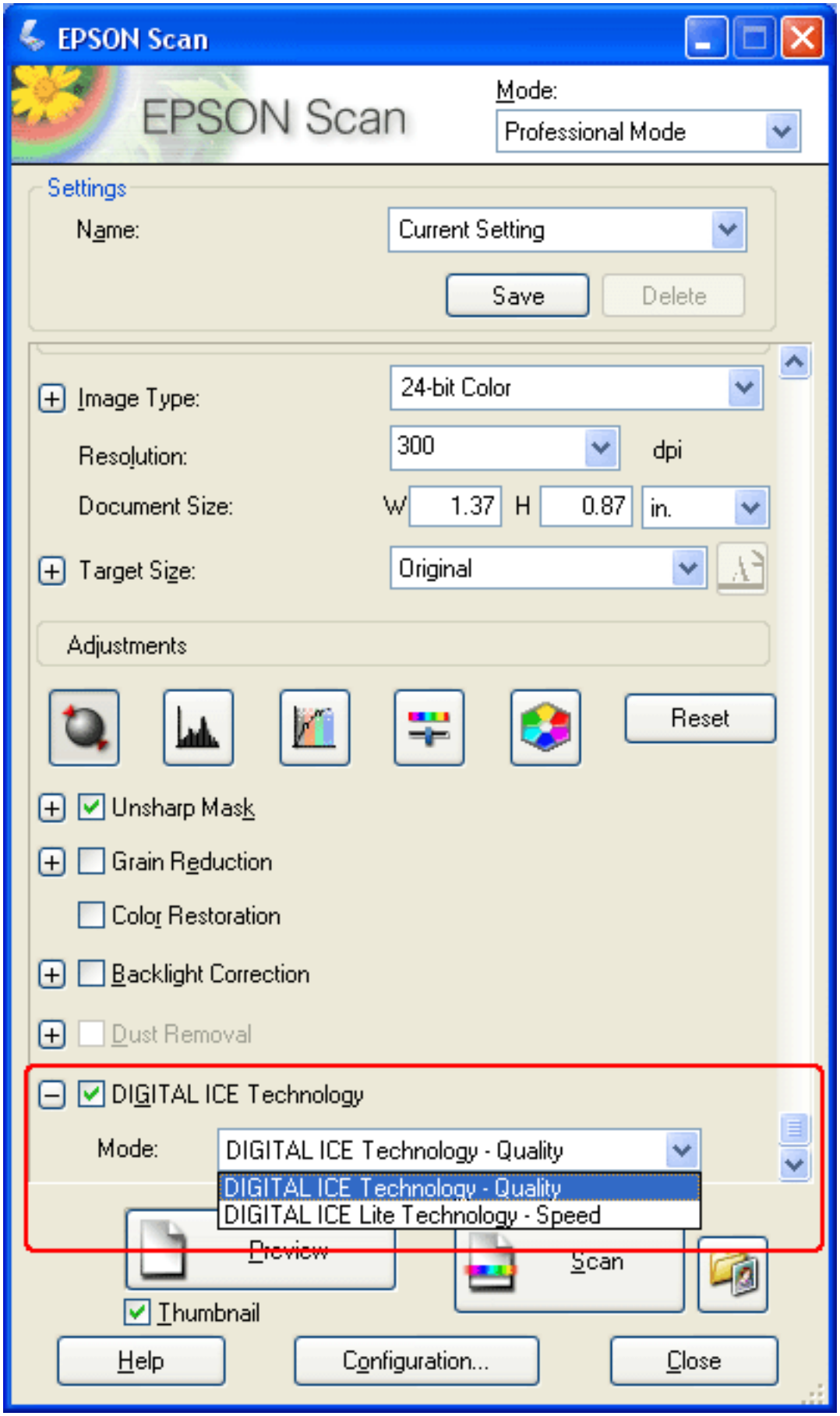
4. Click the **Preview** button to preview your images, then select your scan area. See Previewing and Adjusting the Scan Area for instructions.

5. Do one of the following to select the Digital ICE Technology option:
   - **Home Mode**: Click the **DIGITAL ICE Technology** checkbox.
   - **Professional Mode**: Scroll down to the Adjustments area and click the **DIGITAL ICE Technology** checkbox. If you want to decrease the level of the Digital ICE Technology correction effect, click the **+** (Windows) or ▶ (Macintosh) button next to the option and select the **DIGITAL ICE Lite Technology** setting in the **Mode** list.

   Home Mode:



Professional Mode:


EPSON Scan
EPSON Scan
Mode:
Professional Mode
Settings
Name:
Current Setting
Save
Delete
Image Type:
24-bit Color
Resolution:
300
dpi
Document Size:
W
1.37
H
0.87
in.
Target Size:
Original
Adjustments
Reset
Unsharp Mask
Grain Reduction
Color Restoration
Backlight Correction
Dust Removal
DIGITAL ICE Technology
Mode:
DIGITAL ICE Technology - Quality
DIGITAL ICE Technology - Quality
DIGITAL ICE Lite Technology - Speed
Preview
Scan
Thumbnail
Help
Configuration...
Close

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 for instructions.

7 Size your image as necessary. See Selecting the Scan Size for instructions.

8 Click the **Scan** button 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 for details.

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.

Film or slide type	Resolution *	Hard disk space	System memory
35mm film or slide	150 dpi	1MB	8MB
	300 dpi	1MB	15MB
	600 dpi	4MB	30MB
	1200 dpi	16MB	59MB
	2400 dpi	63MB	117MB
	3600 dpi	142MB	175MB
	12800 dpi	251MB	233MB
Medium format film (6 × 12 cm)	150 dpi	4MB	34MB
	300 dpi	8MB	70MB
	600 dpi	29MB	139MB
	1200 dpi	116MB	277MB
	2400 dpi	464MB	553MB
	3600 dpi	1042MB	830MB
	12800 dpi	1853MB	1106MB

* 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.

Note:

It may take much longer to scan and for your software to respond to clicking the **Cancel** button if you have insufficient system resources.

Top

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.

Note:

Backlight Correction is not available in Full Auto Mode.

Original image	Backlight Correction applied

Follow these steps to fix backlit photos using Epson Scan.

1. Place your original. See one of these sections for instructions.

   Documents or photos: Placing Documents or Photos

   Film or slides: Placing Film or Slides

2. Start Epson Scan. See one of these sections for instructions.

   Documents or photos:

   - Starting a Scan With the Scanner Buttons
   - Starting a Scan With Epson Scan
   - Starting a Scan With Another Scanning Program

   Film or slides:

- Starting a Scan With the Scanner Buttons
- Starting a Scan With Epson Scan
- Starting a Scan With Another Scanning Program

3 When the Epson Scan window appears, set the scan mode to **Home Mode** or **Professional Mode**. Then select the basic settings for the type of original(s) you are scanning and select the destination setting for the way you will use your image(s). See one of these sections for instructions.

Documents or photos: Selecting Basic Settings

Film or slides: Selecting Basic Settings

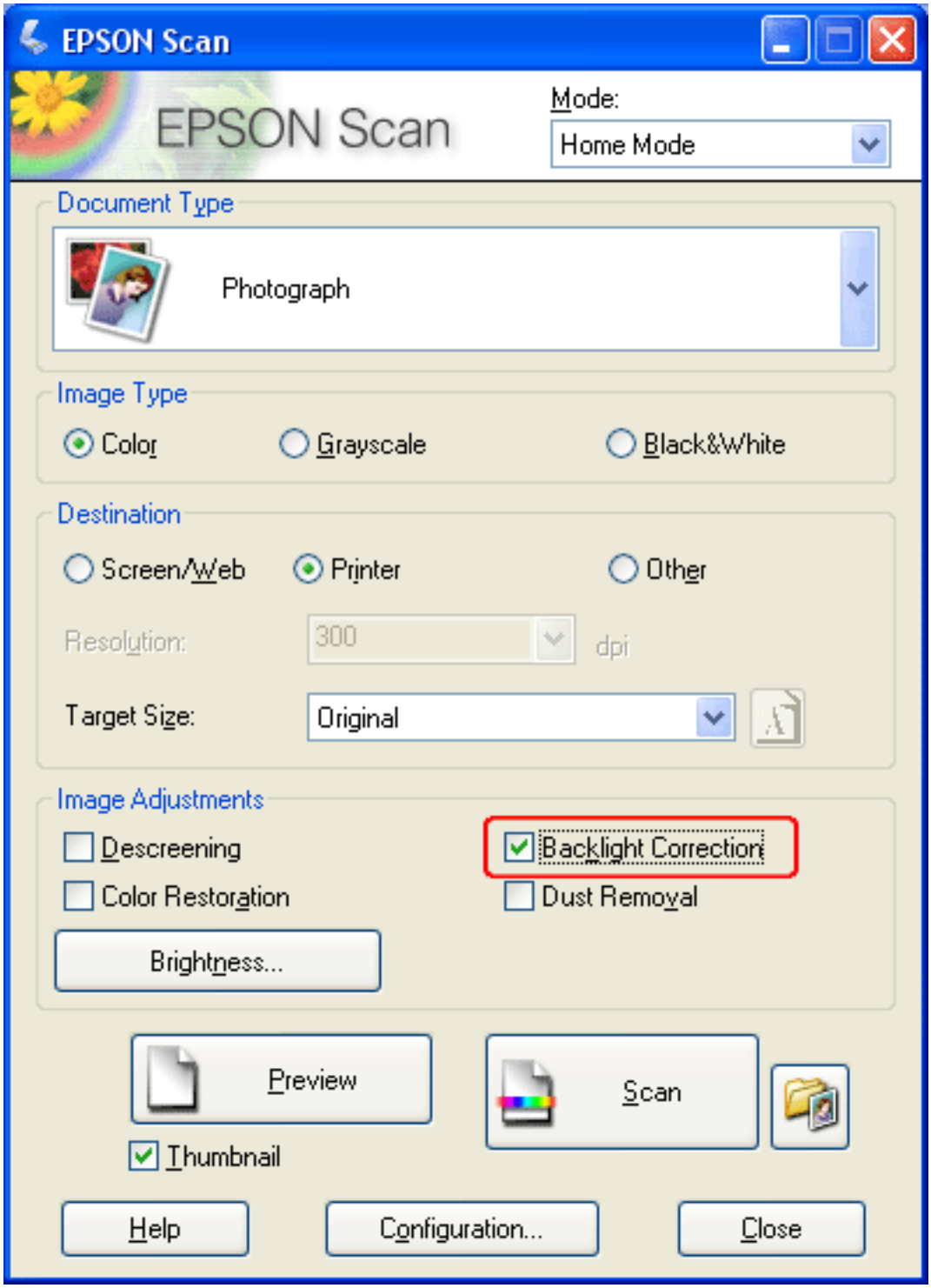
4 Click the **Preview** button to preview your image(s), then select your scan area. See one of these sections for instructions.

Documents or photos: Previewing and Adjusting the Scan Area

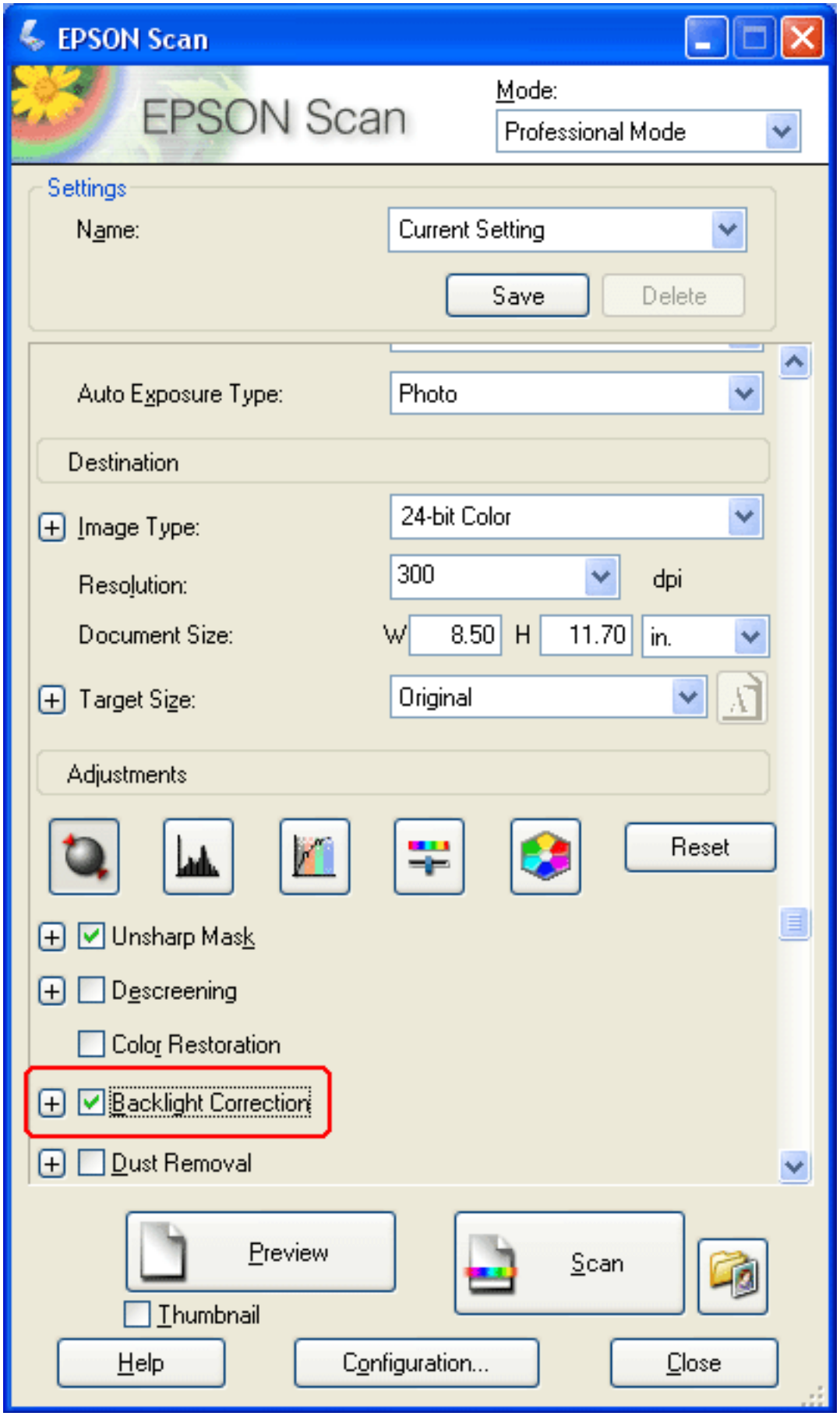
Film or slides: Previewing and Adjusting the Scan Area

5 Do one of the following to select the Backlight Correction option.

- **Home Mode**: Click the **Backlight Correction** checkbox.



- **Professional Mode**: Scroll down to the Adjustments area and click the **Backlight Correction** checkbox. 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.


EPSON Scan
EPSON Scan
Mode:
Professional Mode
Settings
Name:
Current Setting
Save
Delete
Auto Exposure Type:
Photo
Destination
Image Type:
24-bit Color
Resolution:
300
dpi
Document Size:
W
8.50
H
11.70
in.
Target Size:
Original
Adjustments
Reset
Unsharp Mask
Descreening
Color Restoration
Backlight Correction
Dust Removal
Preview
Scan
Thumbnail
Help
Configuration...
Close

6 Make any other necessary image adjustments. See one of these sections for instructions.

Documents or photos: Adjusting the Color and Other Image Settings

Film or slides: Adjusting the Color and Other Image Settings

7 Size your image as necessary. See one of these sections for instructions.

Documents or photos: Selecting the Scan Size

Film or slides: Selecting the Scan Size

8 Click the **Scan** button to scan and correct backlighting in your image(s).

What happens next depends on how you started Epson Scan. See one of these sections for details.

Documents or photos: Finishing the Scan

Film or slides: Finishing the Scan

Using the Scanner as a Copier

You can use your scanner along with a printer connected to your computer just like you would use a copy machine. You can even enlarge and reduce, restore faded colors, remove dust, enhance text, and adjust image brightness and contrast as you copy.

1. Place your original on the scanner. See one of these sections for instructions.

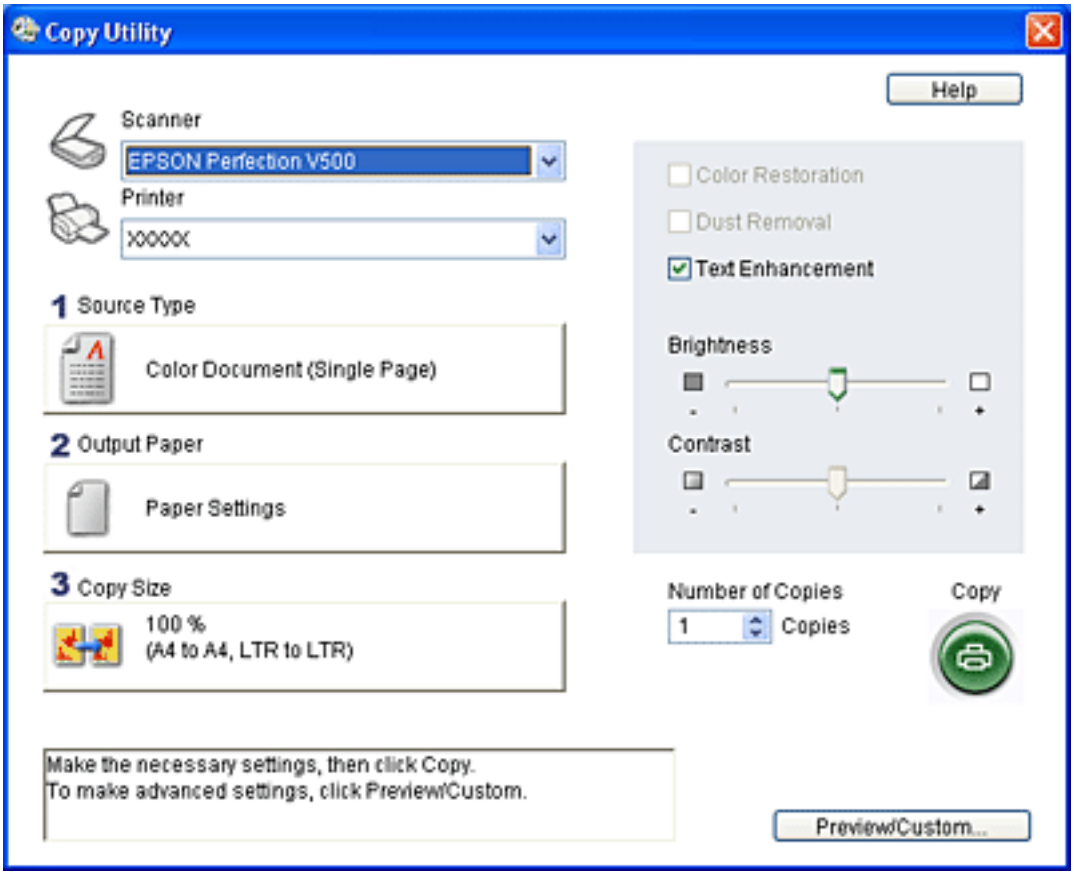
   Documents or photos: Placing Documents or Photos

   Film or slides: Placing Film or Slides

2. Start the Epson Copy Utility in one of these ways.

   - Press the Copy button on the scanner.
   - **Windows:** Select or **Start > All Programs** or **Programs > Epson Software > Copy Utility**.
   - **Mac OS X:** Open the **Applications > Epson Software > Copy Utility** folders and double-click the **Copy Utility** icon.

   You see the Copy Utility window.



3 Select your scanner from the Scanner list at the top of the window, if necessary.

4 Select your printer from the Printer list, if necessary.

5 Click the **Source Type** box, select the type of document you are copying, and click **OK**. See the table below for guidance.

Source Type setting	Type of document
Color Document (Single Page)	One-page color document containing text or text and graphics, such as a flyer
Black & White Document (Single Page)	One-page black and white document containing text or text and graphics, such as a letter
Color Document (Multiple Pages)	Multiple page color document containing text or text and graphics, such as a brochure
Black & White Document (Multiple Pages)	Multiple page black and white document containing text or text and graphics, such as a manual
Photo	Color or black-and-white photographs
Negative Film	Color negative film strip
Positive Film	Color slides or positive film strip

6 Click the **Output Paper** box, select the type and size of paper you loaded in your printer, and click **OK**.

Note:

If you are printing on certain Epson printers, you see the printer settings window. See your printer documentation for instructions on selecting settings.

7 If you want to enlarge or reduce your image as you copy it, click the **Copy Size** box, select the enlargement/reduction, and click **OK**.

Note:

If you are printing on an Epson printer that supports borderless printing, you can select options for **Margins** (borders) or **No Margins** (borderless).

8 If you are copying a faded photo and want to restore the colors, click the **Color Restoration** checkbox. It is available only when the Source Type is **Photo**, **Negative Film**, or **Positive Film**.

9 If you need to remove dust marks as you copy, click the **Dust Removal** checkbox. It is available only when the Source Type is **Negative Film** or **Positive Film**.

10 If you are copying a color or black-and-white document, you can improve the definition of text and line art by leaving the **Text Enhancement** checkbox checked. It is available only when the Source Type is one of the **Document** options.

11 If you need to adjust the lightness or darkness of your original or adjust the contrast between them as you copy, click the slider beneath the **Brightness** and/or **Contrast** settings. Contrast is only adjustable when the Source Type is **Photo**, **Negative Film**, or **Positive Film**.

12 Click the arrow in the **Number of Copies** box to select the number of copies you want, if necessary.

13 When you are ready to scan and print, click the **Copy** button.

Note:

If you want to preview your scan before printing it or select additional copy settings, click the **Preview/Custom** button at the bottom of the window. Click **Help** in the Copy Utility for instructions on using the Custom Copy features.

Scanning Directly to a PDF File

Starting a Scan With the Scan to PDF Button
Starting a Scan With Epson Scan (Full Auto Mode)
Starting a Scan With Epson Scan (Home/Office/Professional Mode)

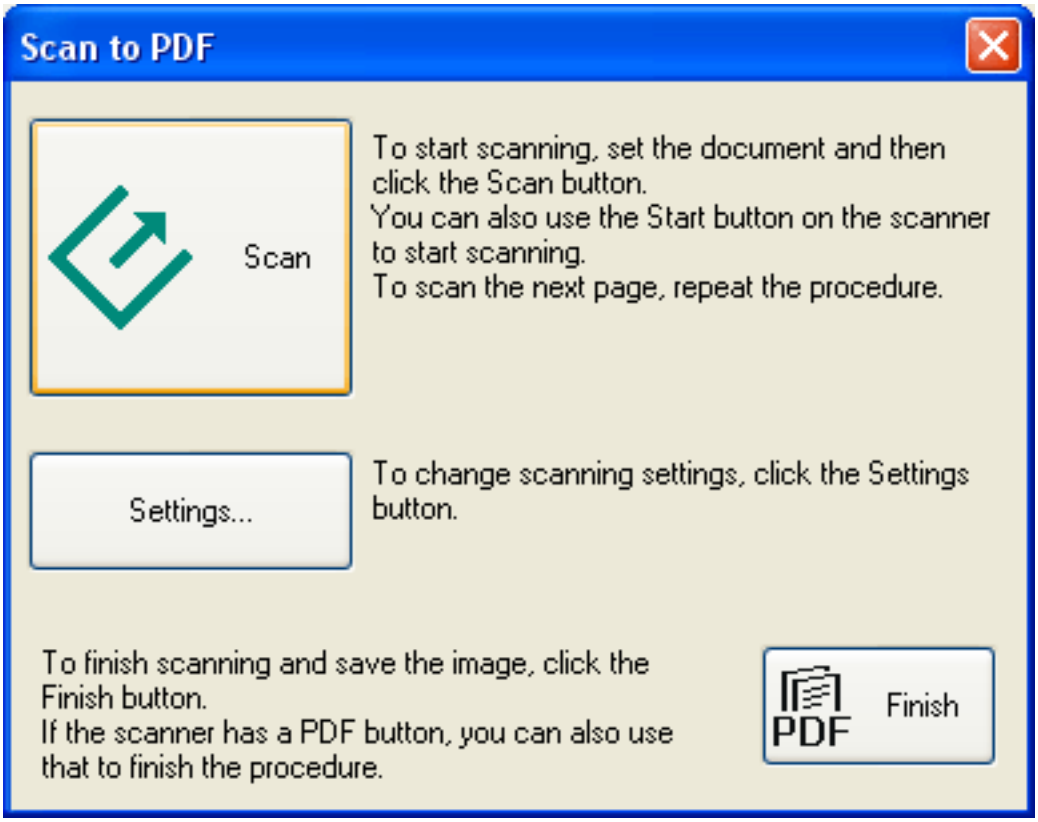
Starting a Scan With the Scan to PDF Button

You can scan multiple document pages or photos and save them as one PDF file on your computer using the scanner's Scan to PDF button.

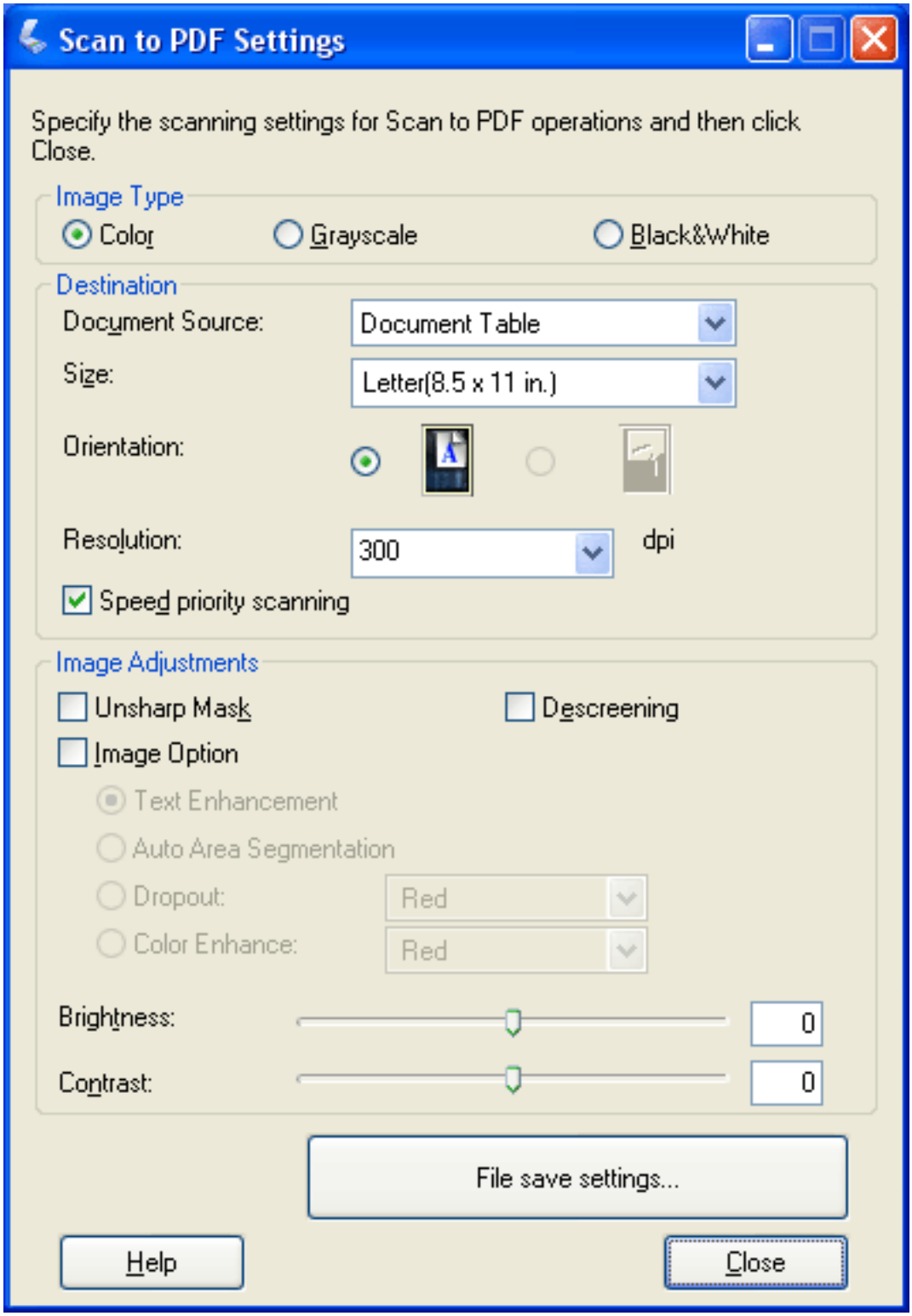
Note:

In Windows, you need Adobe Reader or Acrobat to view PDF files. You can download Adobe Reader for free from Adobe's website.

1. Place the first page of your original document (or your photos). See Placing Documents or Photos for instructions.
2. Press the Scan to PDF button on the scanner. You see the Scan to PDF window.



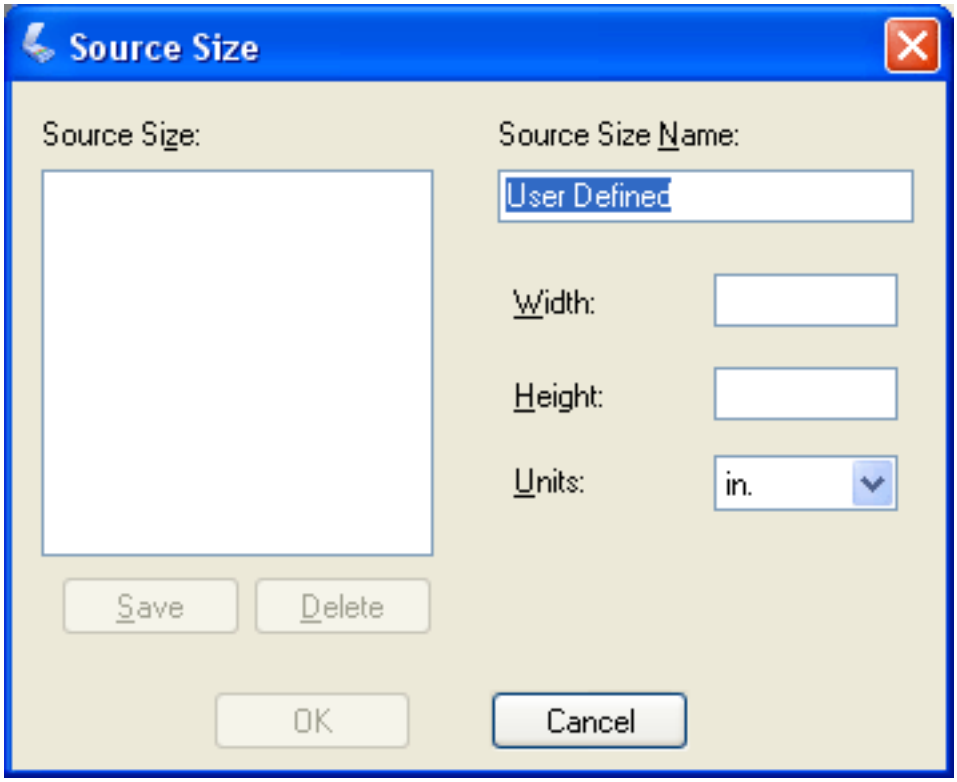
3 Click the **Settings** button. You see the Scan to PDF Settings window.



4 Click the **Color**, **Grayscale**, or **Black&White** button to match the colors in the original.

5 Click the arrow to open the Size list and select the size of your original.

6 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 the **Save** button, then click **OK**. Your new size appears in the Size list.

7 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.

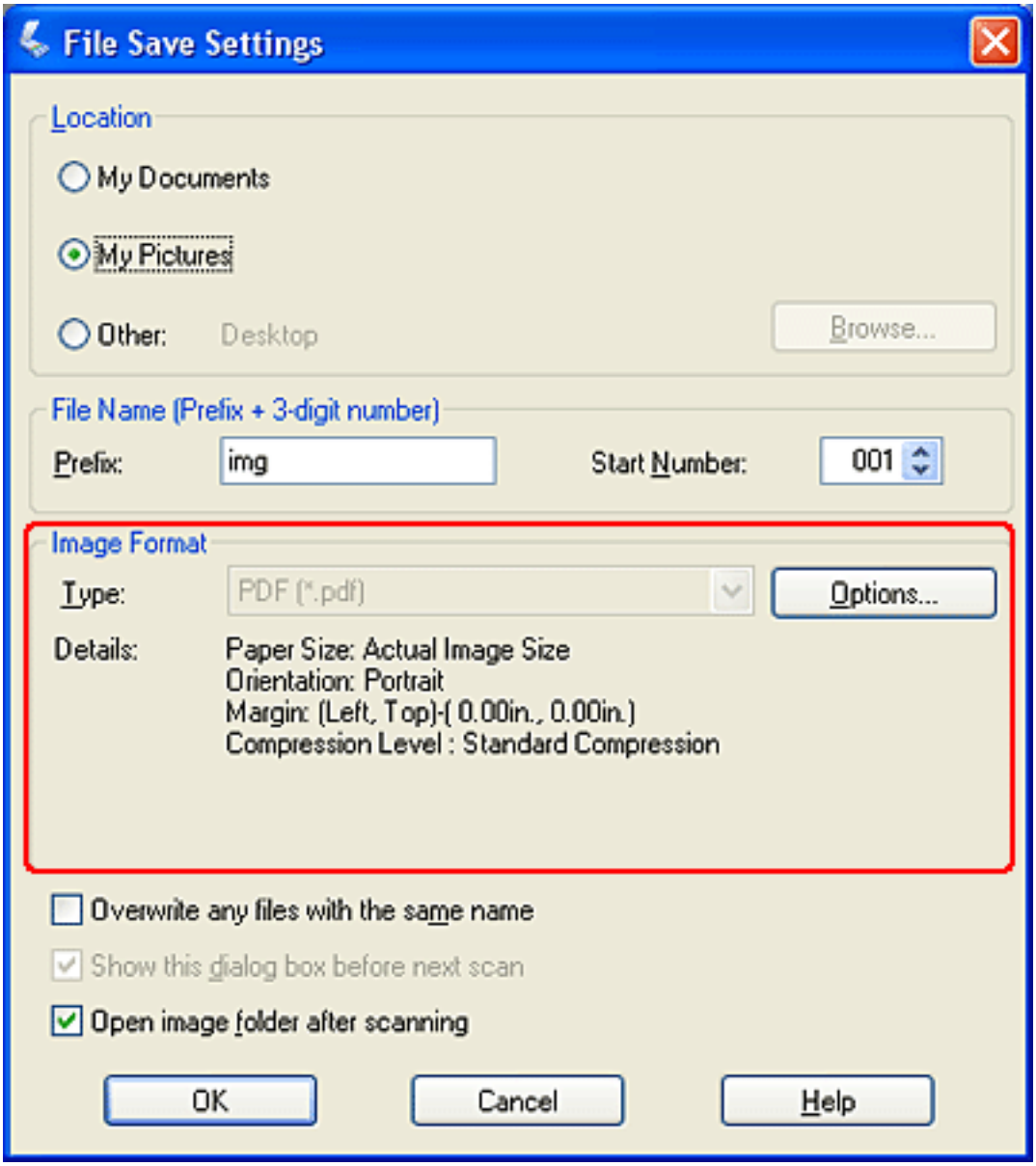
What you will do with the scanned image	Suggested scan resolution
Send via e-mail, upload to web, view only on the screen	96 to 150 dpi
Print	300 dpi

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

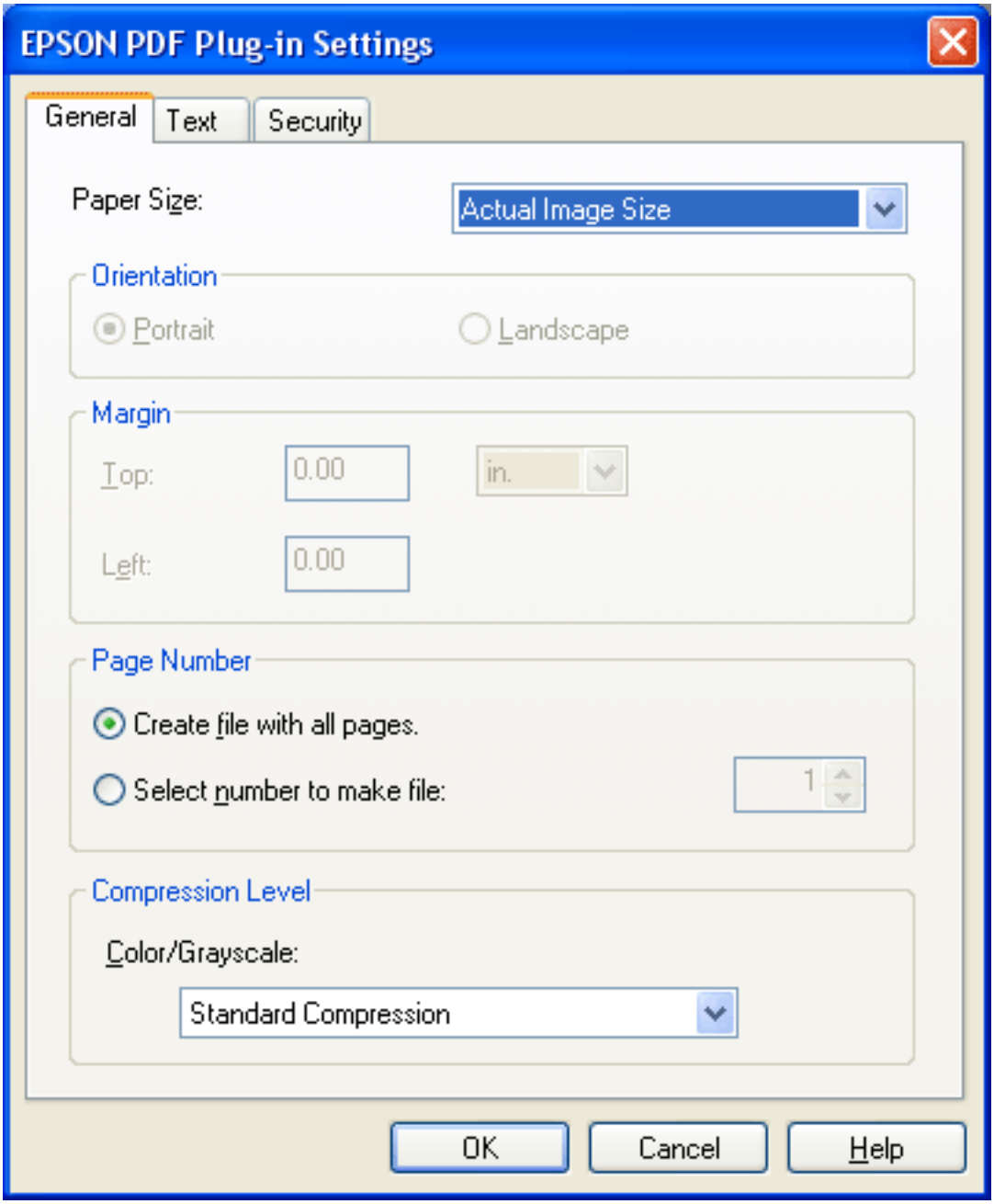
Setting	Description
Brightness	Adjusts the overall image lightness and darkness.
Contrast	Adjusts the difference between the light and dark areas of the overall image.
Unsharp Mask	Turn on to make the edges of image areas clearer for an overall sharper image. Turn off to leave softer edges.

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.
Text Enhancement	Improves the definition of text and line art. Enhances text recognition when scanning text documents.
Threshold	Adjusts the level at which the black areas in text and line art are delineated. (Available only when you select **Black&White** as the Image Type setting.)
Image Option > Auto Area Segmentation	Makes grayscale images clearer and text recognition more accurate by scanning text in black & white while retaining the grayscale of the image. (Available only when you select **Black&White** as the Image Type setting.)
Image Option > Dropout	Drops out the color you select (red, green, or blue) from the scan. (Available only when you select **Grayscale** or **Black&White** as the Image Type setting.)
Image Option > Color Enhance	Enhances the color you select (red, green, or blue) in the scan. (Available only when you select **Grayscale** or **Black&White** as the Image Type setting.)

9 Click the **File save settings** button. The File Save Settings window appears. The current PDF settings are displayed.



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



Select the settings that match your document. If you want to create a searchable PDF, make sure **Create searchable PDF** is selected in the **Text** tab (for details on selecting settings and other PDF options, click the **Help** button). When you are finished selecting settings, click **OK**. You return to the File Save Settings window.

11 Click **OK** again, click **Close**, then click **Scan** or press the Start button on the scanner. Epson Scan scans your page.

12 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.

13 When you are finished, click **Finish** or press the Scan to PDF button on the scanner. Your document is saved as a PDF file in the Pictures or My Pictures folder.

Top

Starting a Scan With Epson Scan (Full Auto Mode)

Using Full Auto Mode, you can scan a document to a PDF file quickly and easily.

Note:

In Windows, you need Adobe Reader or Acrobat to view PDF files. You can download Adobe Reader for free from Adobe's website.

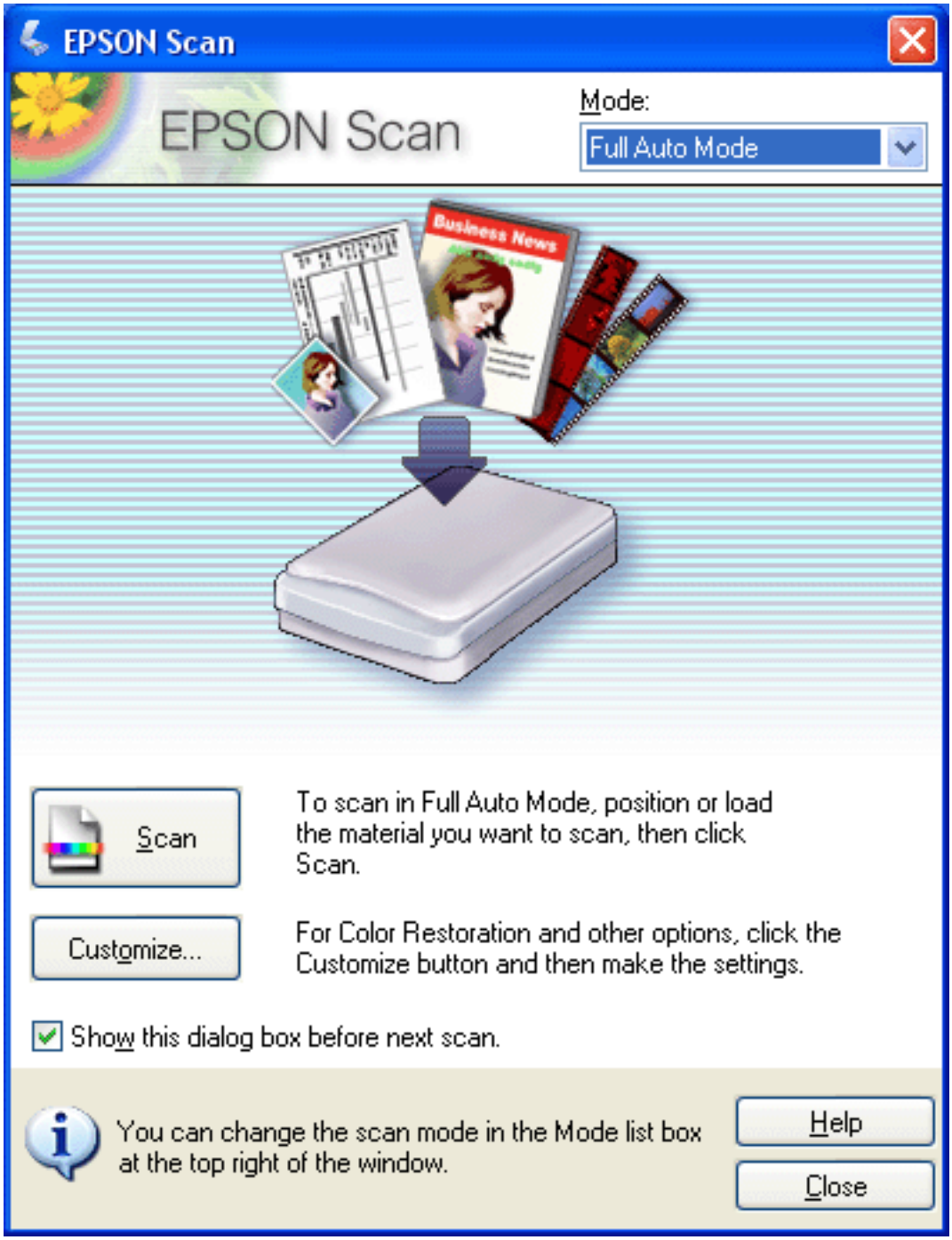
1 Place the first page of your original document (or your photos or film). See one of these sections for instructions.

- **Documents or photos:** Placing Documents or Photos
- **Film or slides:** Placing Film or Slides

2 Start Epson Scan. See one of these sections for instructions.

- **Documents or photos:** Starting a Scan With Epson Scan
- **Film or slides:** Starting a Scan With Epson Scan

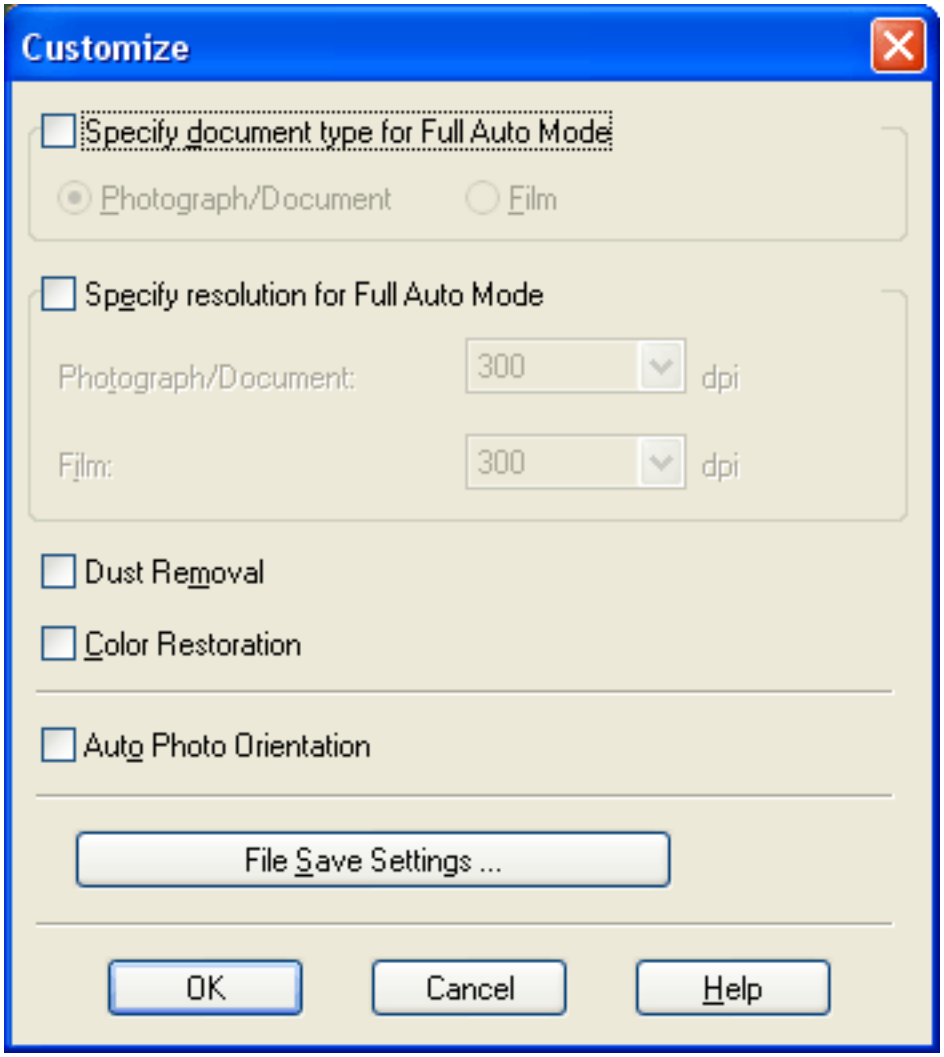
3 When the Epson Scan window appears, set the scan mode to **Full Auto Mode**. Then click the **Customize** button.



Note:

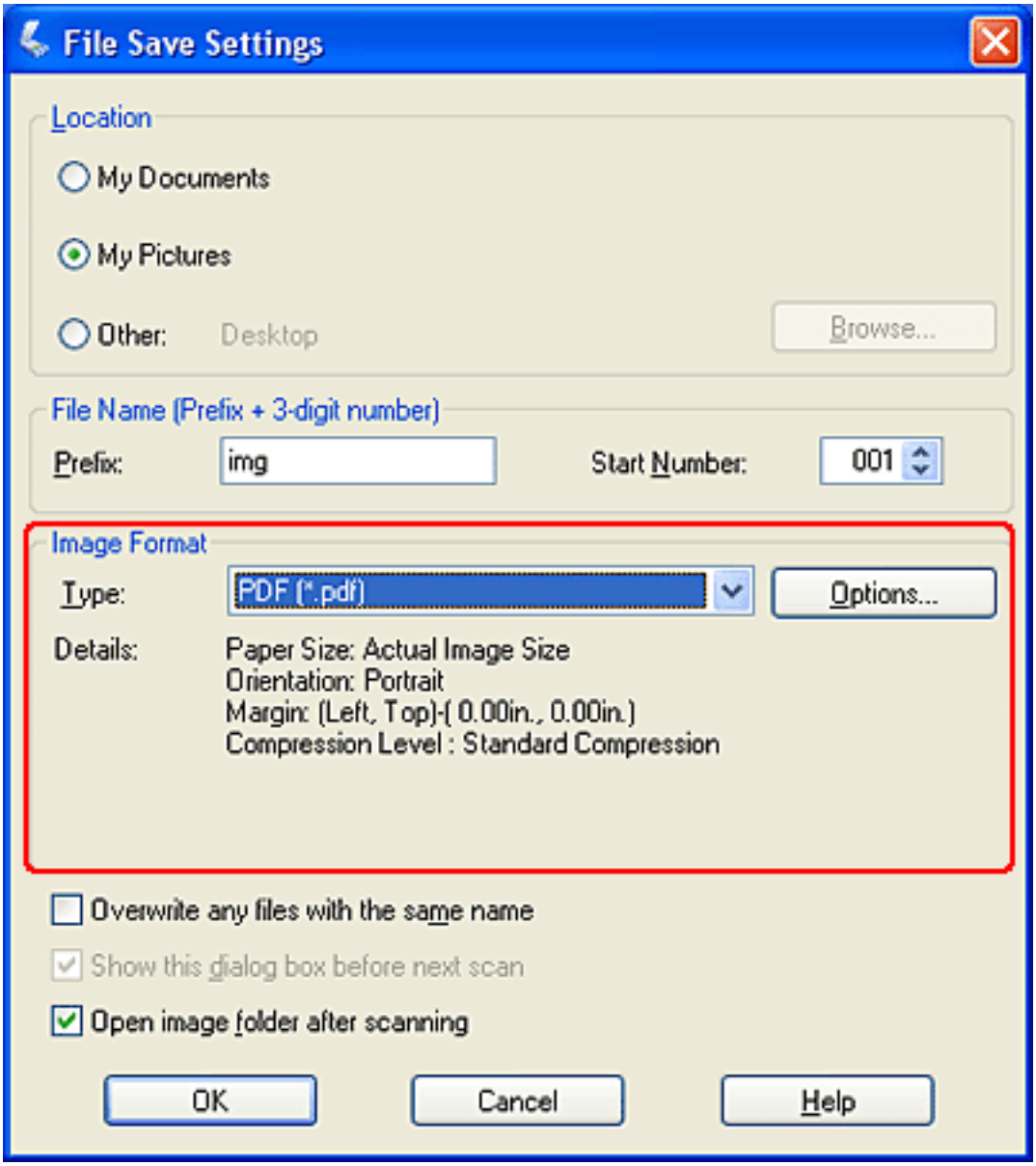
To change the scan mode, see Changing the Scan Mode for documents and photos or Changing the Scan Mode for film and slides.

4 The Customize window appears.



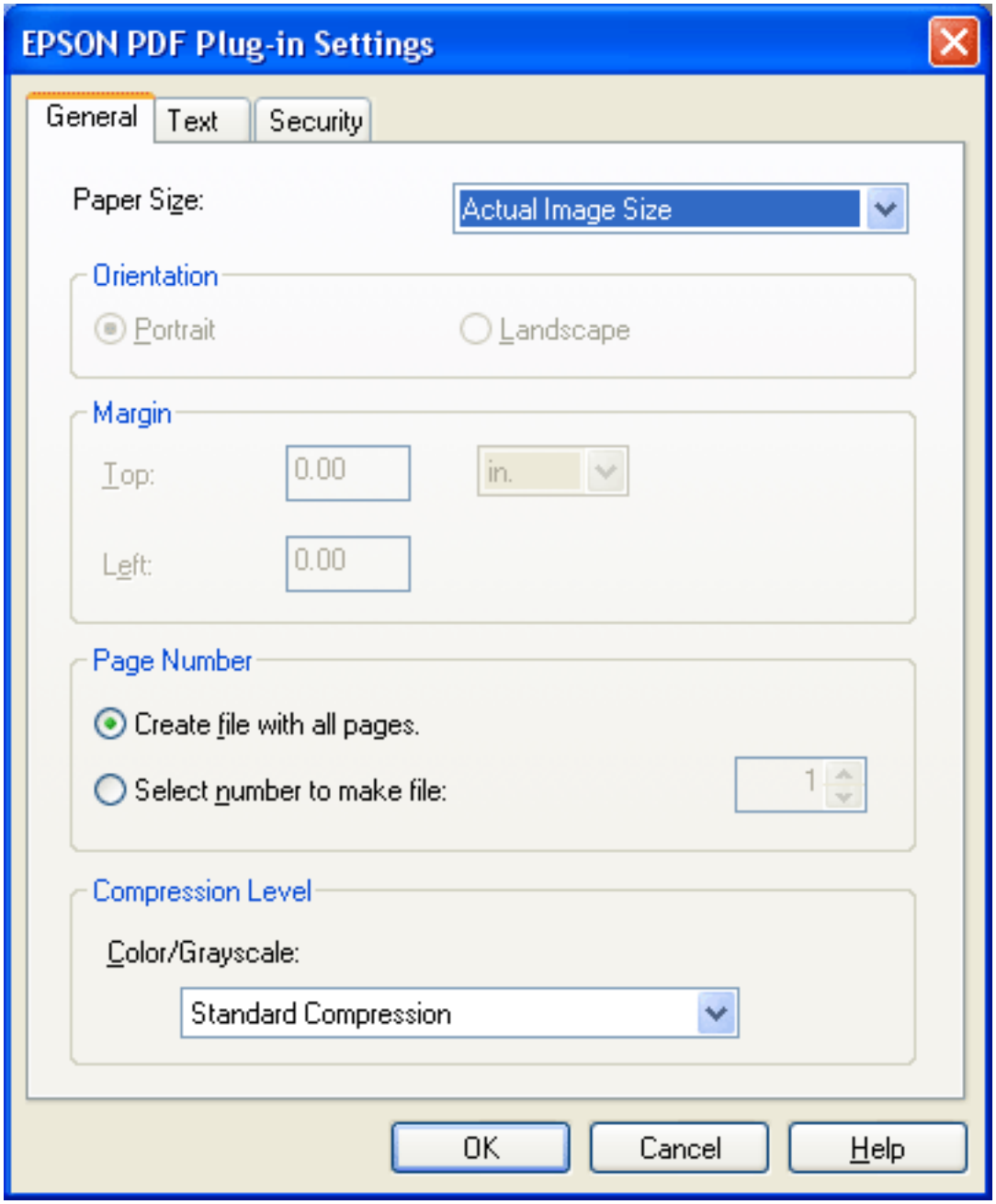
Click the **File Save Settings** button.

5 The File Save Settings window appears.



Select **PDF** as the Type setting. The current PDF settings are displayed below it.

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



Select the settings that match your document. If you want to create a searchable PDF, make sure **Create searchable PDF** is selected in the **Text** tab (for details on selecting settings and other PDF options, click the **Help** button). When you are finished selecting settings, click **OK**. You return to the File Save Settings window.

7 When you are finished selecting file settings, click **OK**. Click **OK** again to close the **Customize** window.

8 Click the **Scan** button. Epson Scan starts scanning in Full Auto Mode.

9 Depending on how you started Epson Scan, the program saves the file to the location you specified or opens the scanned image in your scanning program. See one of these sections for details.

- **Documents or photos:** Finishing the Scan
- **Film or slides:** Finishing the Scan

Top

Starting a Scan With Epson Scan (Home/Office/Professional Mode)

You can scan multiple document pages, photos, film images (Home/Professional Mode only), or slides (Home/Professional Mode only) and save them as one PDF file on your computer using Epson Scan.

Note:

> In Windows, you need Adobe Reader or Acrobat to view PDF files. You can download Adobe Reader for free from Adobe's website.

1. Place the first page of your original document (or your photos or film). See one of these sections for instructions.

   Documents or photos: Placing Documents or Photos

   Film or slides: Placing Film or Slides

2. Start Epson Scan. See one of these sections for instructions.

   - **Documents or photos:** Starting a Scan With Epson Scan
   - **Film or slides:** Starting a Scan With Epson Scan

3. When the Epson Scan window appears, set the scan mode to **Home Mode**, **Office Mode**, or **Professional Mode**. Then select the basic settings for the type of original(s) you are scanning and select the destination setting for the way you will use your image(s).

   Home or Professional Mode:
   See one of these sections for instructions.

   - **Documents or photos:** Selecting Basic Settings
   - **Film or slides:** Selecting Basic Settings

   Office Mode:
   Click the **Help** button in the Epson Scan window for instructions.

Note:

To change the scan mode, see Changing the Scan Mode for documents and photos or Changing the Scan Mode for film and slides.

4 Click the **Preview** button to preview your image(s), then select your scan area.

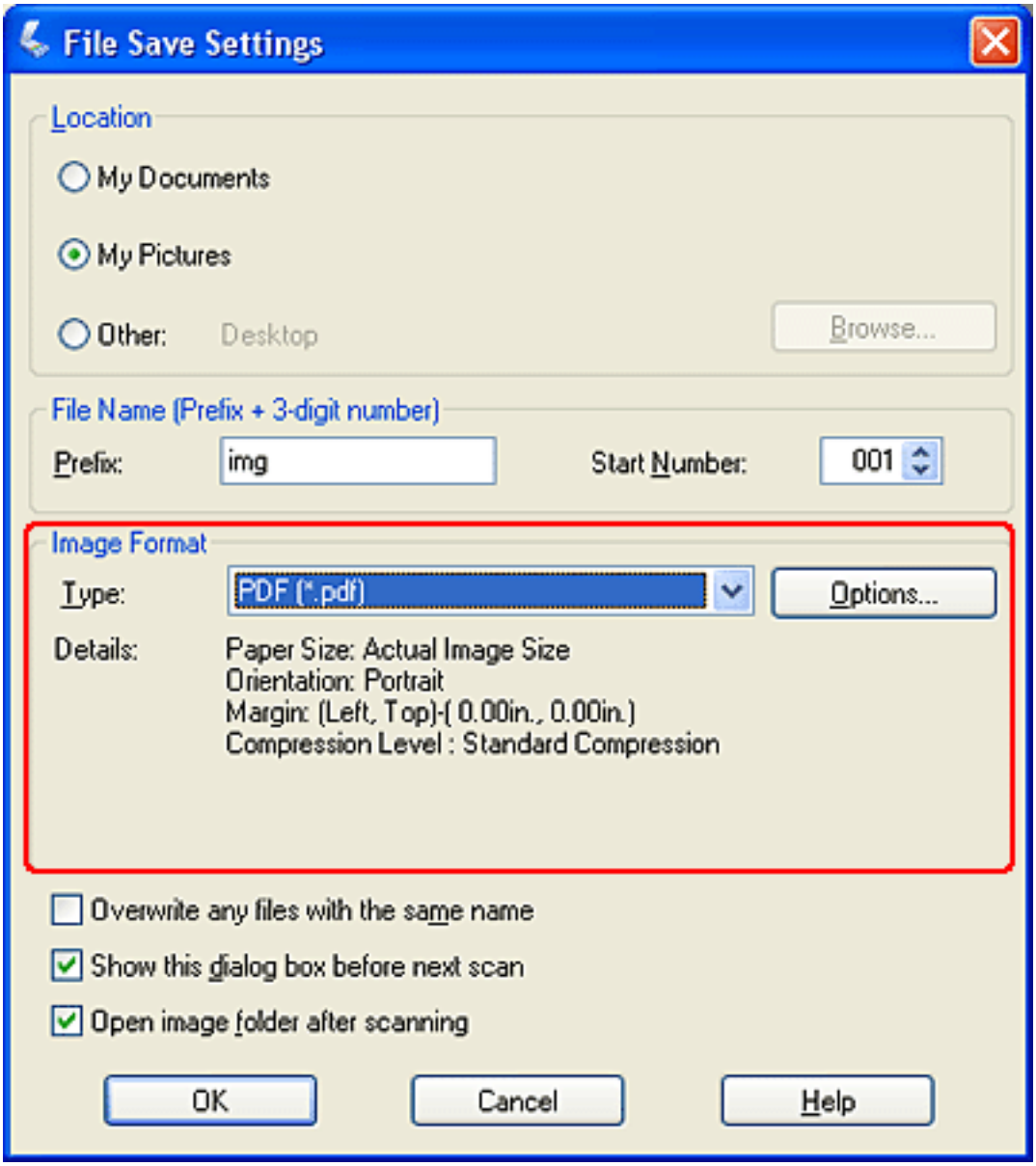
Home or Professional Mode:
See one of these sections for instructions.

- **Documents or photos:** Previewing and Adjusting the Scan Area
- **Film or slides:** Previewing and Adjusting the Scan Area

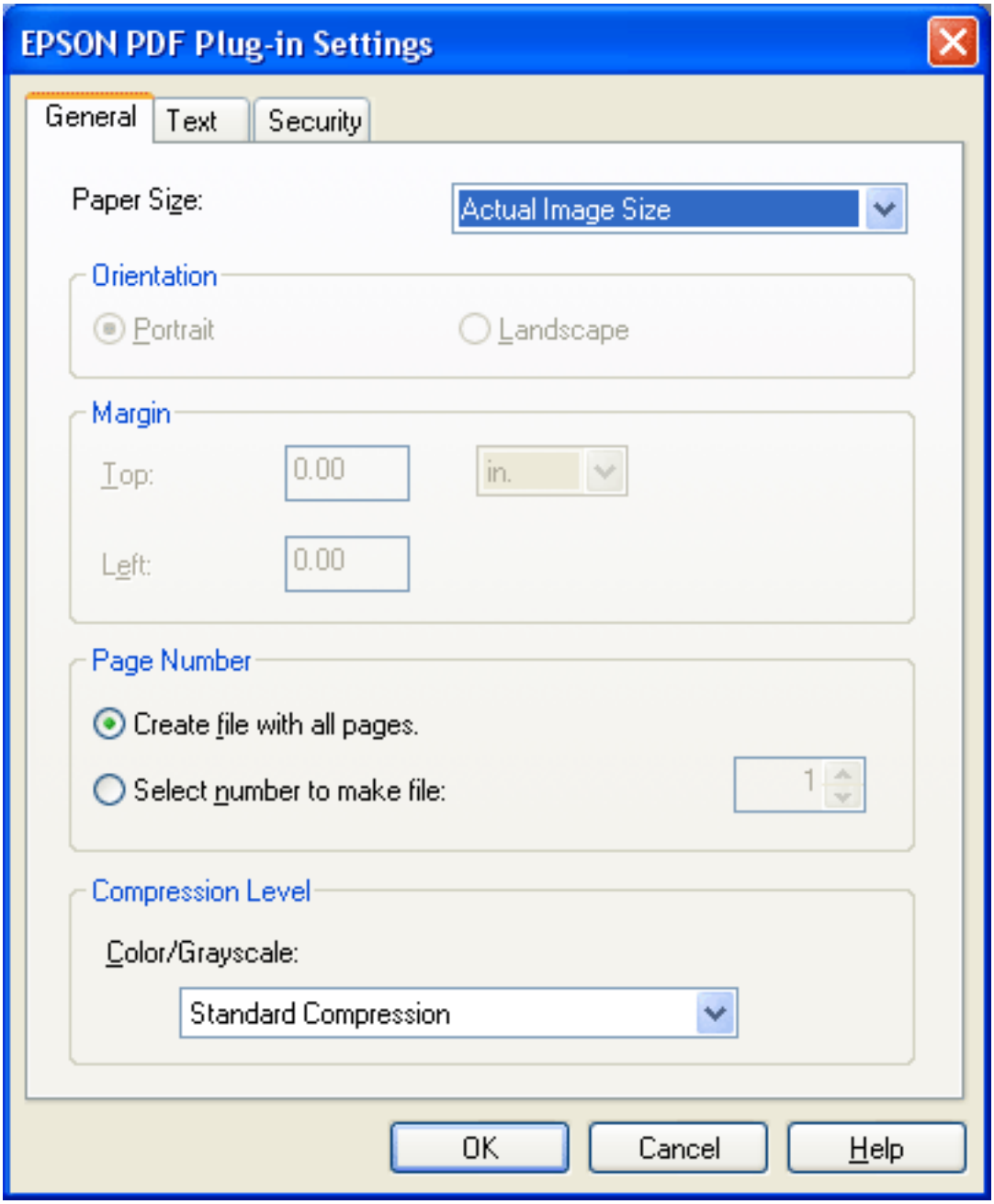
Office Mode:
Click the **Help** button in the Epson Scan window for instructions.

5 When you are finished selecting settings and previewing, click the **Scan** button.

6 The File Save Settings window appears. Select **PDF** as the Type setting. The current PDF settings are displayed below it.

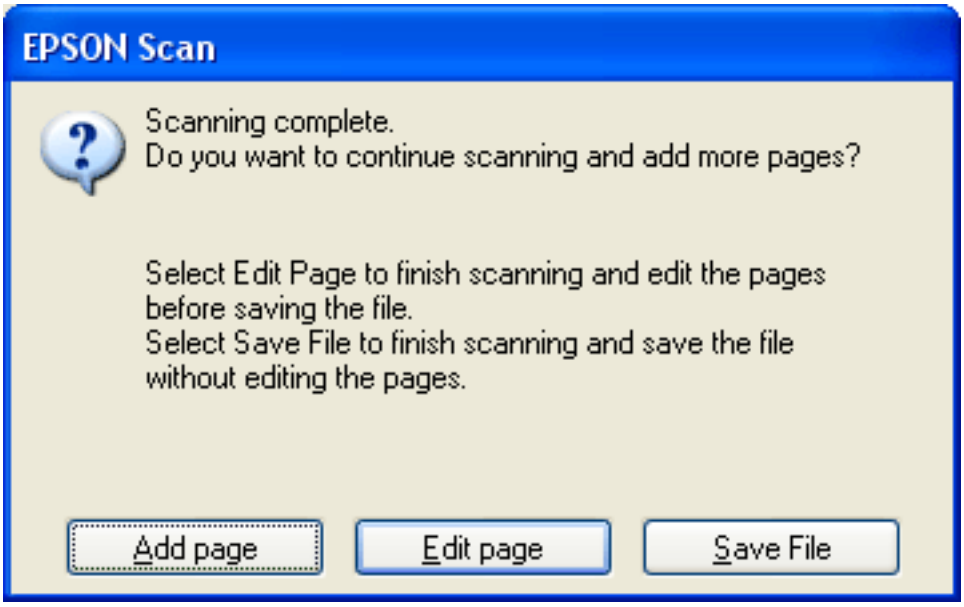


7 If you need to change any of the current PDF settings, click the **Options** button. You see the Epson PDF Plug-in Settings window.



Select the settings that match your document. If you want to create a searchable PDF, make sure **Create searchable PDF** is selected in the **Text** tab (for details on selecting settings and other PDF options, click the **Help** button). When you are finished selecting settings, click **OK**. You return to the File Save Settings window.

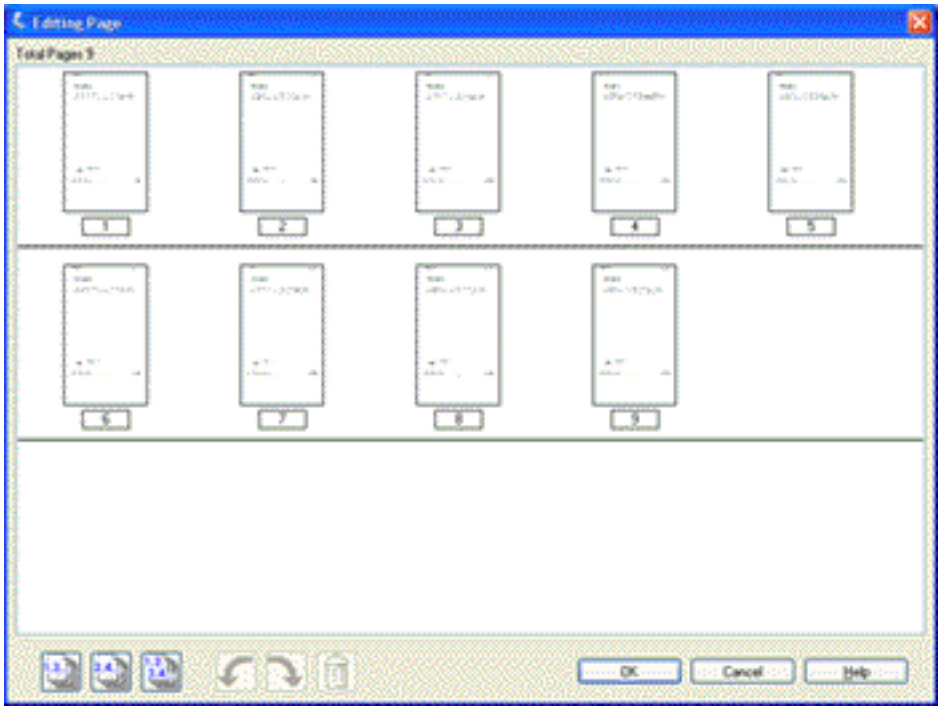
8 When you are finished selecting file settings, click **OK**. Epson Scan scans your page and displays this window.



9 If you are only scanning one document page, or you don't need to edit your pages, click **Save File** and go to step 12.

If you are scanning multiple pages, click **Add Page**, replace the first page on the document table with the second page, and click **Scan**. Repeat this step for each page in your document. When you are finished, click **Edit Page** and go to step 10.

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



You can use the tools below the main window to select, rotate, reorder, and delete pages in your document. Click the **Help** button for details.

If you want to include all the document pages in your PDF file as they currently look, go to step 11.

If you do not need to include some of the pages, click the odd pages or even pages icons, or click the individual pages you do not need. Then click the delete icon to delete them.

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.

Note:

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

11 When you have finished editing your document pages, click **OK**. Your document is saved as a PDF file in the Pictures or My Pictures folder and you return to the Epson Scan window.

12 Click **Close** to exit Epson Scan.

Top

Scanning Directly to an E-mail

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

Note:

Not all e-mail programs work with the Scan to E-mail button. See the Attach To Email Read Me file for more information.

1. Place your original on the scanner. See one of these sections for instructions.

   Documents or photos: Placing Documents or Photos

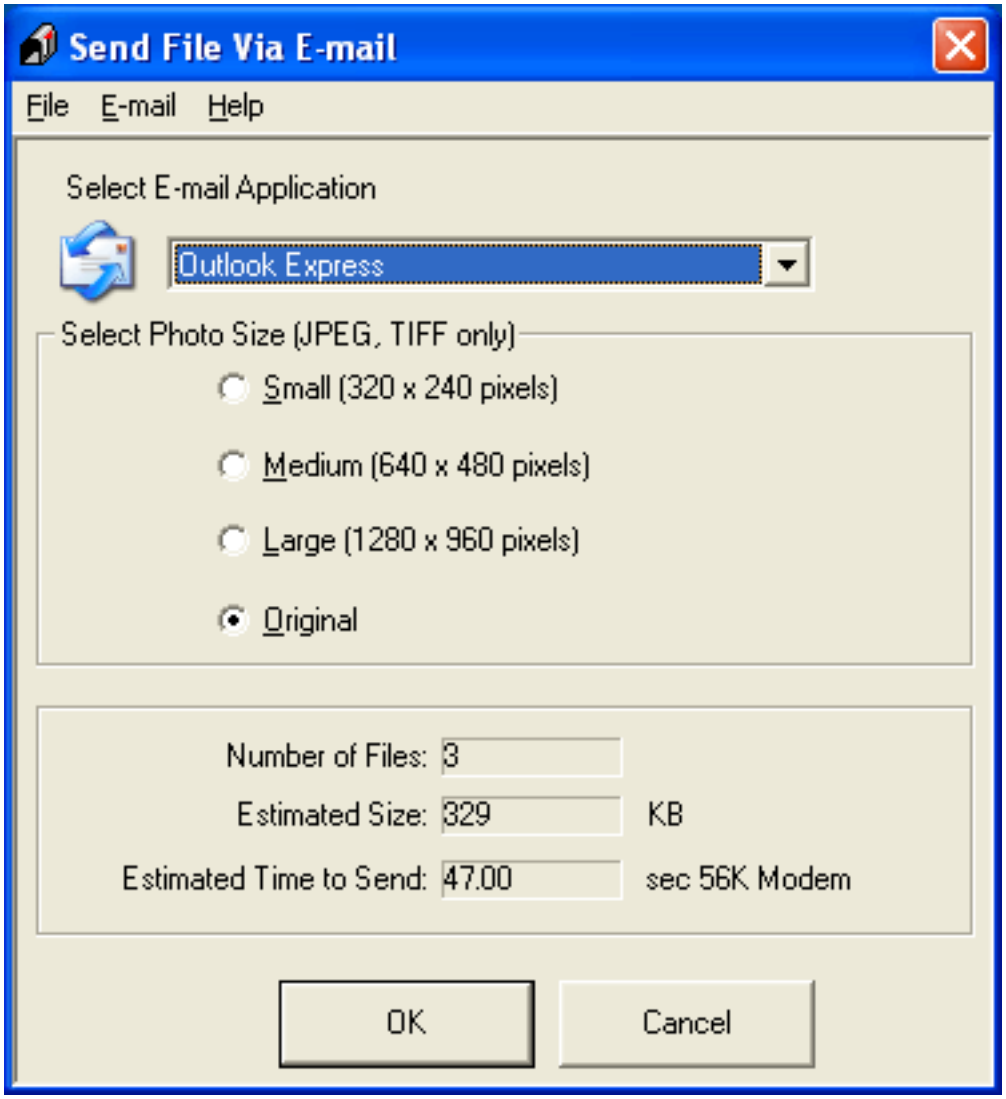
   Film or slides: Placing Film or Slides

2. Press the Scan to 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. Then click **Customize**, select your options, click **OK** and click **Scan** to continue.

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, 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 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.

OCR software cannot recognize handwritten characters, and certain types of documents or text are difficult for OCR software to recognize, such as:

- 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

Follow these steps to scan and convert text using ABBYY FineReader.

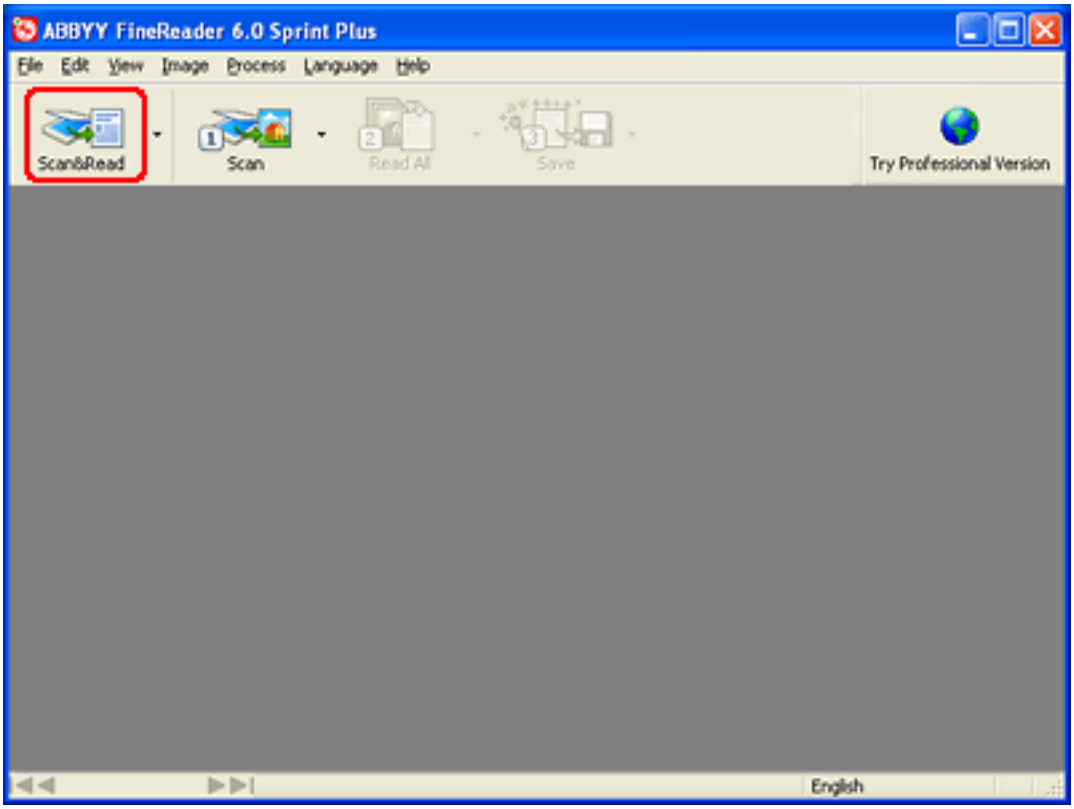
1. Place your original document on the scanner. See Placing Documents or Photos for instructions.

2. Do one of the following to start ABBYY FineReader.

   Windows: Select or **Start > All Programs** or **Programs > ABBYY FineReader 6.0 Sprint > ABBYY FineReader 6.0 Sprint**.

   Mac OS X: Open the **Applications > ABBYY FineReader 5 Sprint Plus** folders and double-click the **Launch FineReader 5 Sprint** icon.

   You see the ABBYY FineReader window.



3 Click the **Scan&Read** icon at the top of the window. Epson Scan starts in the last mode you used.

Note for Mac OS X users:

If you do not see a Scan&Read icon, choose **Select Scanner** from the Scan&Read menu, select **EPSON Perfection V500**, and click **OK**. Then select **Scan&Read** from the Scan&Read menu to start Epson Scan.

- In Full Auto Mode, click **Scan**. Epson Scan prescans, scans, and processes the text into editable format, then displays it in the FineReader window.
- In Home Mode, select **Magazine**, **Newspaper**, or **Text/Line Art** as the Document Type. Then select **Black&White** or **Color** as the Image Type, and choose **Printer** or **Other** as your Destination setting. Preview and select your scan area as described in Previewing and Adjusting the Scan Area. Then click **Scan**. Your document is scanned, processed into editable text, and opened in the FineReader window.
- In Office Mode, select **Color**, **Grayscale**, or **Black&White** as the Image Type and **Document Table** as the Document Source. Select the size of your original document as the size setting, and **300** dpi as the Resolution. Preview and select your scan area (click the **Help** button in the Epson Scan window for instructions). Then click **Scan**. Your document is scanned, processed into editable text, and opened in the FineReader window.
- In Professional Mode, select **Reflective** as the Document Type, **Document Table** as the Document Source, and **Document** as the Auto Exposure Type. Then select **Black & White** or **24-bit Color** as the Image Type, and **300** dpi as the Resolution.

Preview and select your scan area as described in Previewing and Adjusting the Scan Area. Then click **Scan**. Your document is scanned, processed into editable text, and opened in the FineReader window.

Note:

In Home, Office, or Professional Mode, if the characters in your text are not recognized very well, you can improve recognition by adjusting the **Threshold** setting. If you are using Home or Professional Mode, see Adjusting the Color and Other Image Settings for instructions. If you are using Office Mode, click the **Help** button in the Epson Scan window for instructions.

4 Follow the instructions in ABBYY FineReader Help to edit and save your document.

Scanning and Printing Color Accurate Images

Scanning and Saving Your Image
Printing Your Image

You can optimize the color accuracy of your images using a photo-editing application, such as Adobe Photoshop Elements.

Note:

Not all versions of Photoshop Elements are fully compatible with Windows Vista. If you are using Windows Vista, you may need to upgrade to the latest version of Photoshop Elements.

Scanning and Saving Your Image

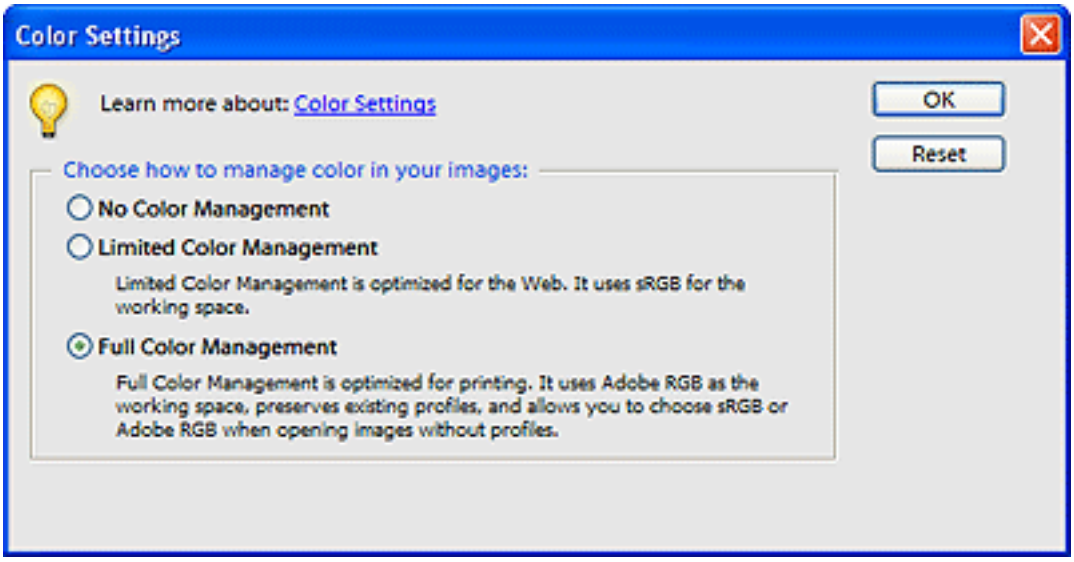
1. Do one of the following.

   Windows: Open Adobe Photoshop Elements and select **Edit and Enhance Photos**.

   Mac OS X: Open Adobe Photoshop Elements. If you see the Welcome window, click **Close**.

2. Click **Edit** (Windows) or **Photoshop Elements** (Mac OS X) and select **Color Settings**.

3. Select **Full Color Management** and click **OK**.



4 Select **File** > **Import** > **EPSON Perfection V500**.

5 When the Epson Scan window appears, set the scan mode to **Home Mode** or **Professional Mode.** See one of these sections for instructions.

Documents or photos: Changing the Scan Mode

Film or slides: Changing the Scan Mode

Note:

You cannot use Full Auto Mode for color management.

6 Click the **Preview** button to preview your image(s), then select your scan area. See one of these sections for instructions.

Documents: Previewing and Adjusting the Scan Area

Film or slides: Previewing and Adjusting the Scan Area

7 Click the **Configuration** button, then click the **Color** tab and select **ICM** (Windows) or **ColorSync** (Mac OS X).

8 For the Source (Scanner) setting, select **EPSON Standard**. If you have color management software and created a custom ICC profile, select it as the Source (Scanner) setting.

Note:

When creating a custom ICC profile for the scanner, be sure to place the profile in the following folder.

- Windows Vista and XP: C:\Windows\System32\Spool\Drivers\Color
- Windows 2000: C:\WINNT\System32\Spool\Drivers\Color
- Mac OS X: hard disk drive\Library\ColorSync\Profiles

9 For the Target setting, select **Adobe RGB**.

10 Select **Display preview using monitor compensation**, then click **OK** to return to the Epson Scan window.

11 Click **Scan** to scan your image.

12 If Epson Scan does not automatically close after scanning, click the **Close** button to close the Epson Scan window.

Your image appears in Adobe Photoshop Elements.

13 Save your image by selecting **File** > **Save As**.

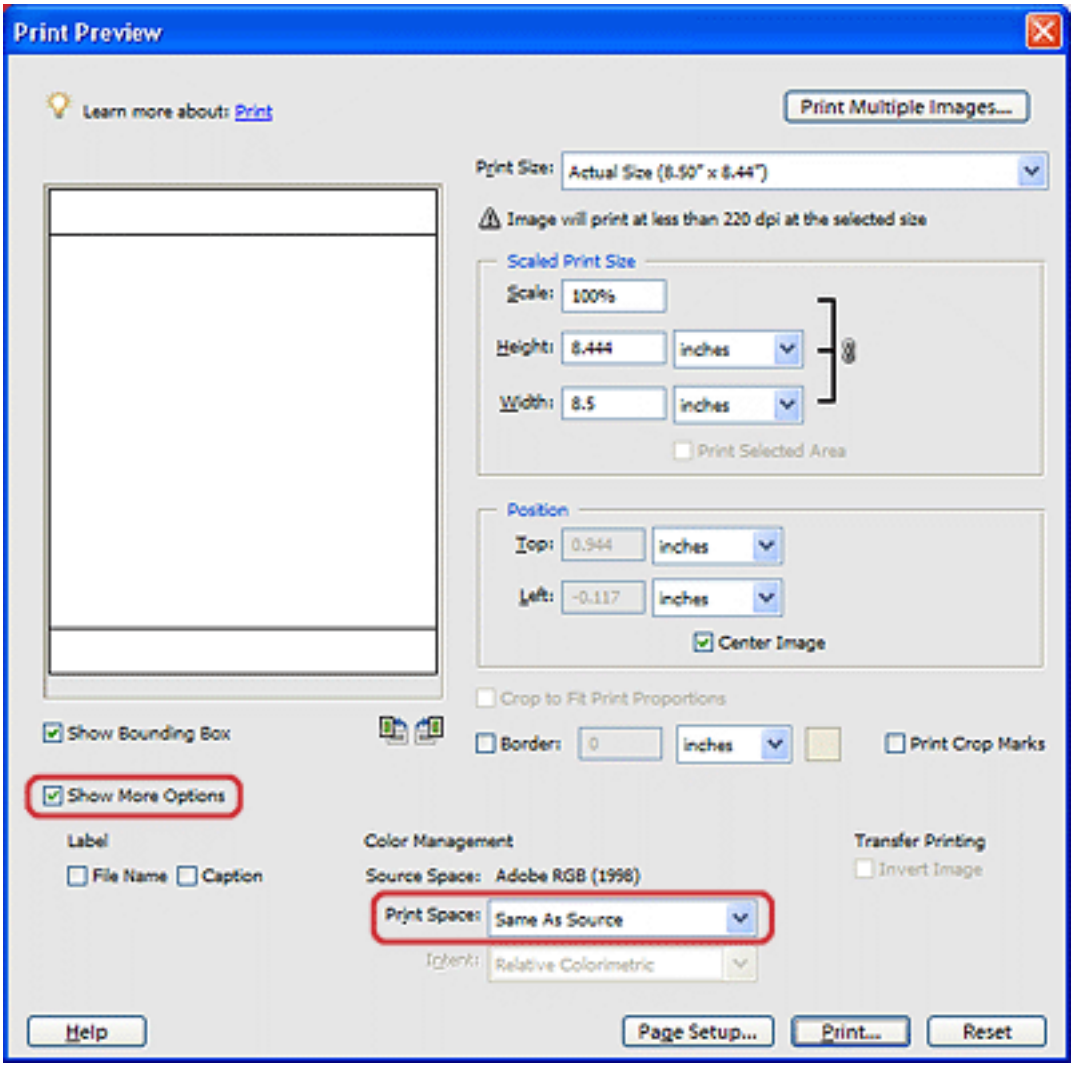
In the Save As window, select **ICC Profile** (Windows) or **Embed Color Profile** (Mac OS X) as the Color setting to save the profile with your image.

Top

Printing Your Image

1 From the **File** menu, select **Print**.

2 Click the **Show More Options** box and select **Same As Source** as the Print Space setting.



3 Check the settings in your printer software and make any changes necessary for your print job, then click **Print** to print your image. For details on selecting printer settings, see your printer's documentation.

Top

Assigning Another Windows Program to a Scanner Button

Assigning a Program With Windows Vista
Assigning a Program With Windows XP
Assigning a Program With Windows 2000

You can assign the scanner buttons to any Windows program that supports scanner events, such as Photoshop Elements. If you have a compatible program, it will appear in the selection window.

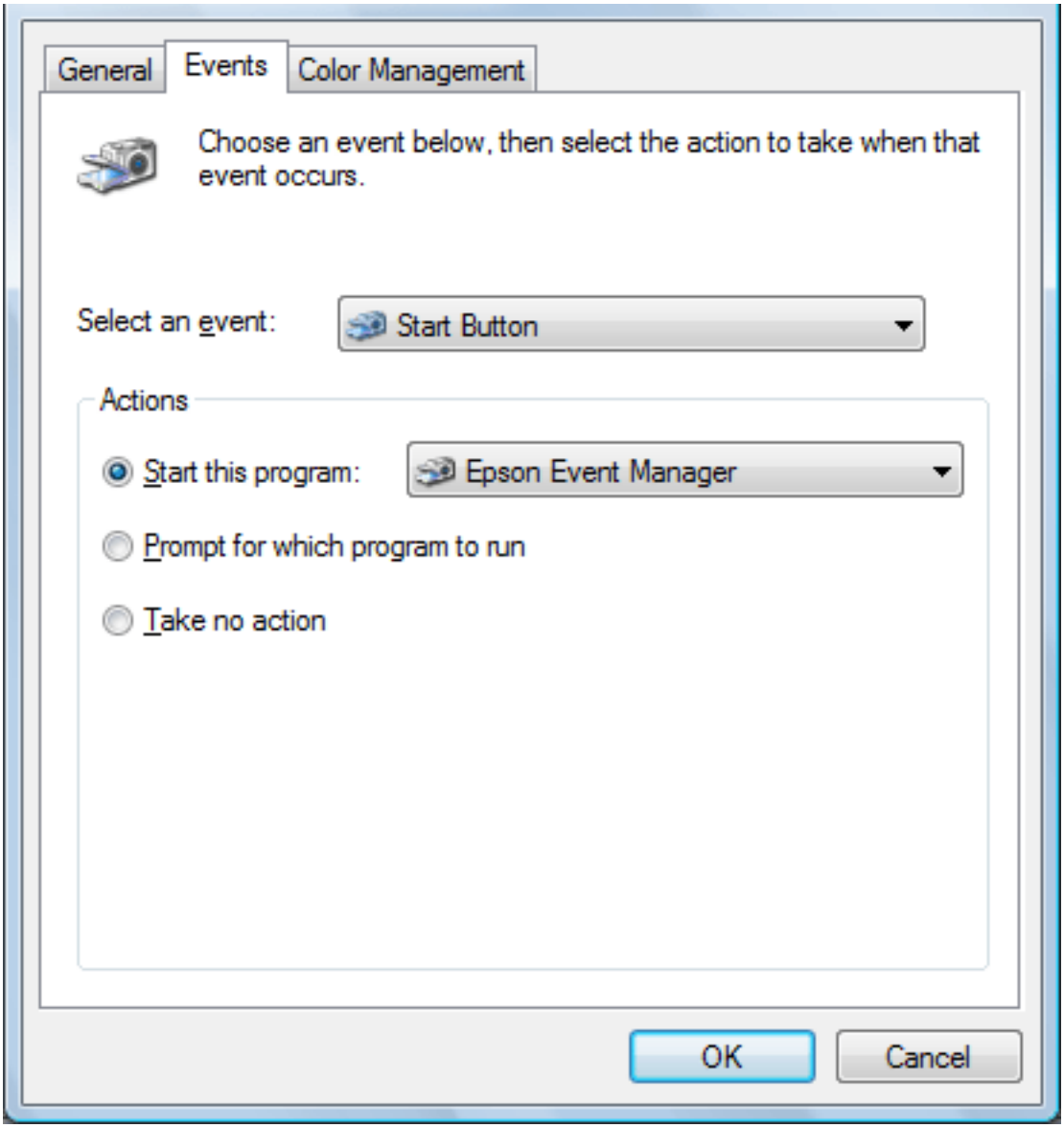
The steps you use depend on the version of Windows you have. See the section for your Windows version below.

Assigning a Program With Windows Vista

1. Click **> Control Panel > Hardware and Sound > Scanners and Cameras**, or click **> Control Panel** and then double-click the **Scanners and Cameras** icon.

2. Click your scanner's icon, then click **Properties**. When you see the User Account Control window, click **Continue**.

3. Click the **Events** tab.



4 In the **Select an event** list, choose the button to which you want to assign a program.

5 In the **Start this program** list, choose the program you want to assign. Only compatible programs appear in the list.

Note:

If you want to be given a choice of programs whenever you press the selected button, click the **Prompt for which program to run** button instead. If you want to disable the button from opening a program, click the **Take no action** button instead.

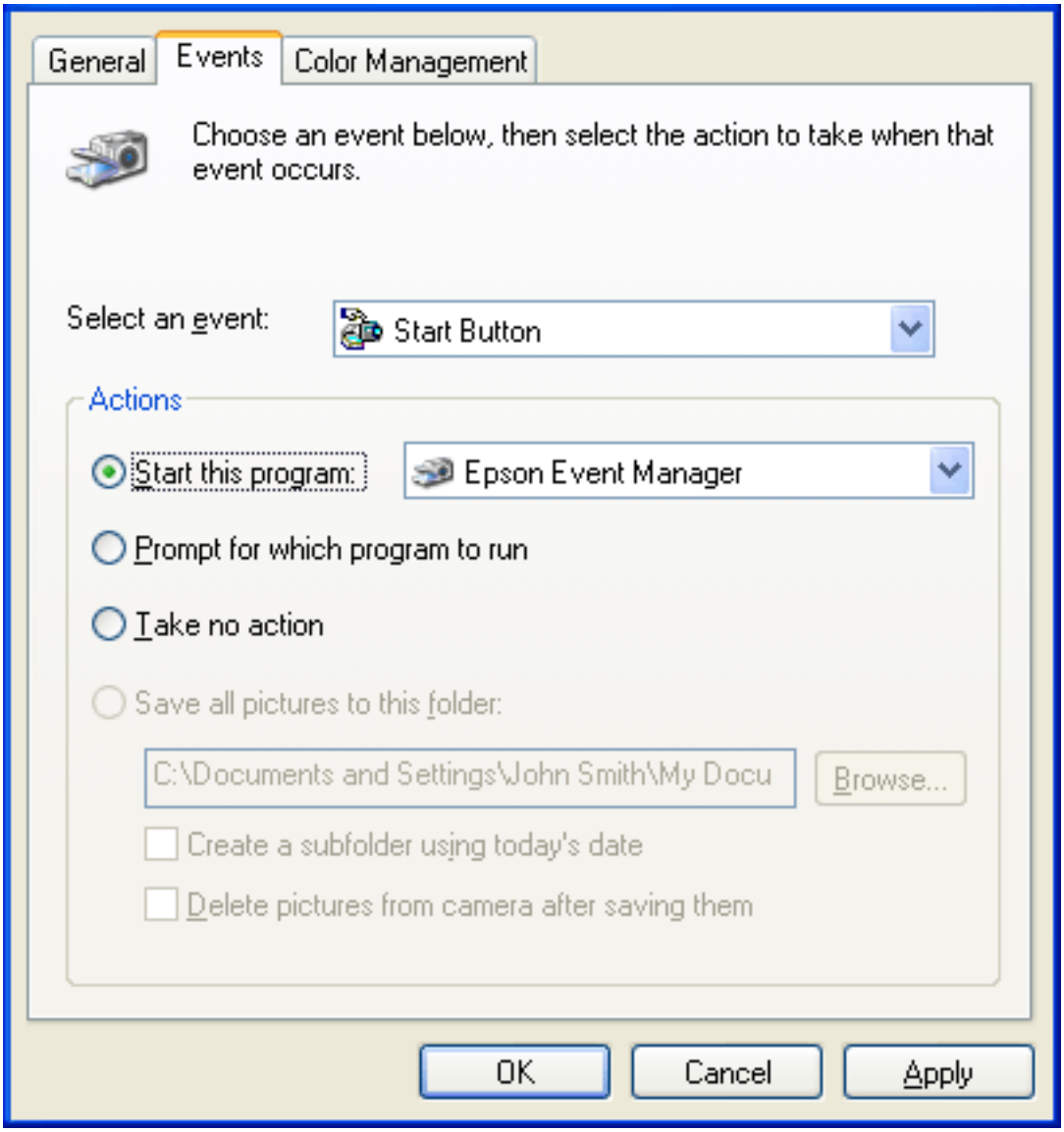
6 Click **OK**.

Assigning a Program With Windows XP

1. Click **Start > Control Panel > Printers and Other Hardware > Scanners and Cameras**, or click **Start > Control Panel** and then double-click the **Scanners and Cameras** icon.

2. Right-click your scanner's icon and select **Properties**.

3. Click the **Events** tab.



4. In the **Select an event** list, choose the button to which you want to assign a program.

5. In the **Start this program** list, choose the program you want to assign. Only compatible programs appear in the list.

Note:

If you want to be given a choice of programs whenever you press the selected button, click the **Prompt for which program to run** button instead. If you want to disable the button from opening a program, click the **Take no action** button instead.

6. Click **Apply**, then click **OK**.

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Assigning a Program With Windows 2000

1. Click **Start > Settings > Control Panel**.

2. Double-click the **Scanners and Cameras** icon.

3. Select your scanner and click **Properties**.

4. Click the **Events** tab.

5. In the **Scanner events** list, choose the button to which you want to assign a program.

6. In the **Send to this application** list, click the checkbox for the program you want to assign. Only compatible programs appear in the list.

Note:

If you want to be given a choice of programs whenever you press the selected button, select more than one program in the list. If you want to disable the button from opening a program, click the **Disable device events** checkbox instead.

7 Click **Apply**, then click **OK**.

Note:

You must restart your computer before using the newly assigned scanner buttons.

Top

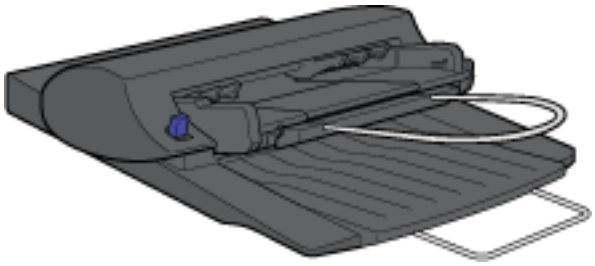
Unpacking the Automatic Document Feeder

The Automatic Document Feeder (B12B813391) allows you to automatically load multiple-page documents into your scanner. This is particularly useful for scanning documents for OCR (Optical Character Recognition) and for quickly creating an image database.

Make sure you have all the items illustrated below. If any items are missing or damaged, contact Epson. See Epson Technical Support for details.

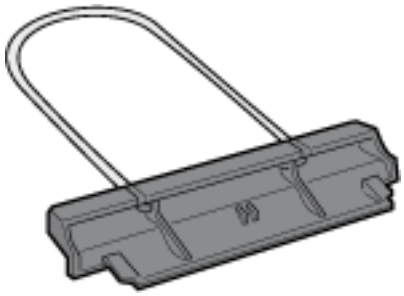
When you are ready to install the Automatic Document Feeder (ADF), see Installing the Automatic Document Feeder.

Automatic Document Feeder



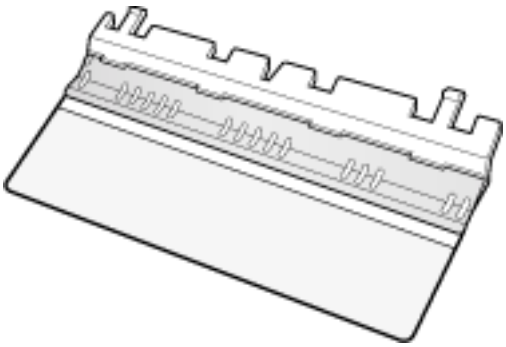
Paper support

Holds up the paper that is loaded in the ADF.



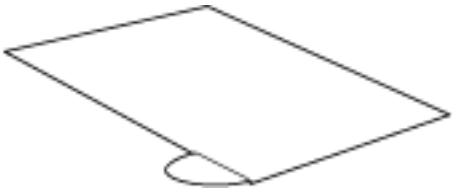
Spare paper path guide

The paper path guide directs documents smoothly onto the scanner's document table. A spare paper path guide is included. If the surface of the paper path guide gets dirty, you can clean it or replace it with the spare guide. See Cleaning and Replacing the Paper Path Guide.



ADF Document Mat

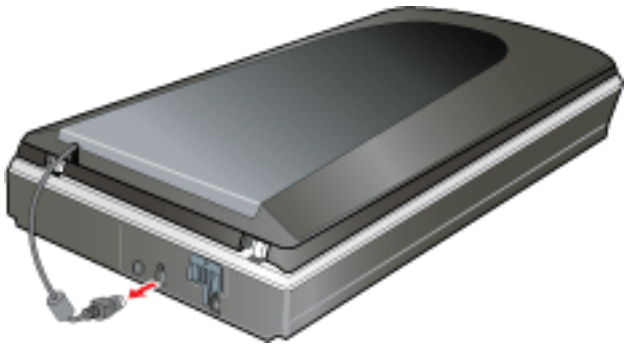
You can place this mat over a document if you need to scan it from the document table when the ADF is installed. See Placing Documents on the Document Table With the Automatic Document Feeder Installed.



Installing the Automatic Document Feeder

Whenever you want to use the ADF, you need to remove the scanner cover and replace it with the ADF.

1. Exit Epson Scan and turn off your scanner using its power switch.
2. Disconnect the cover cable.

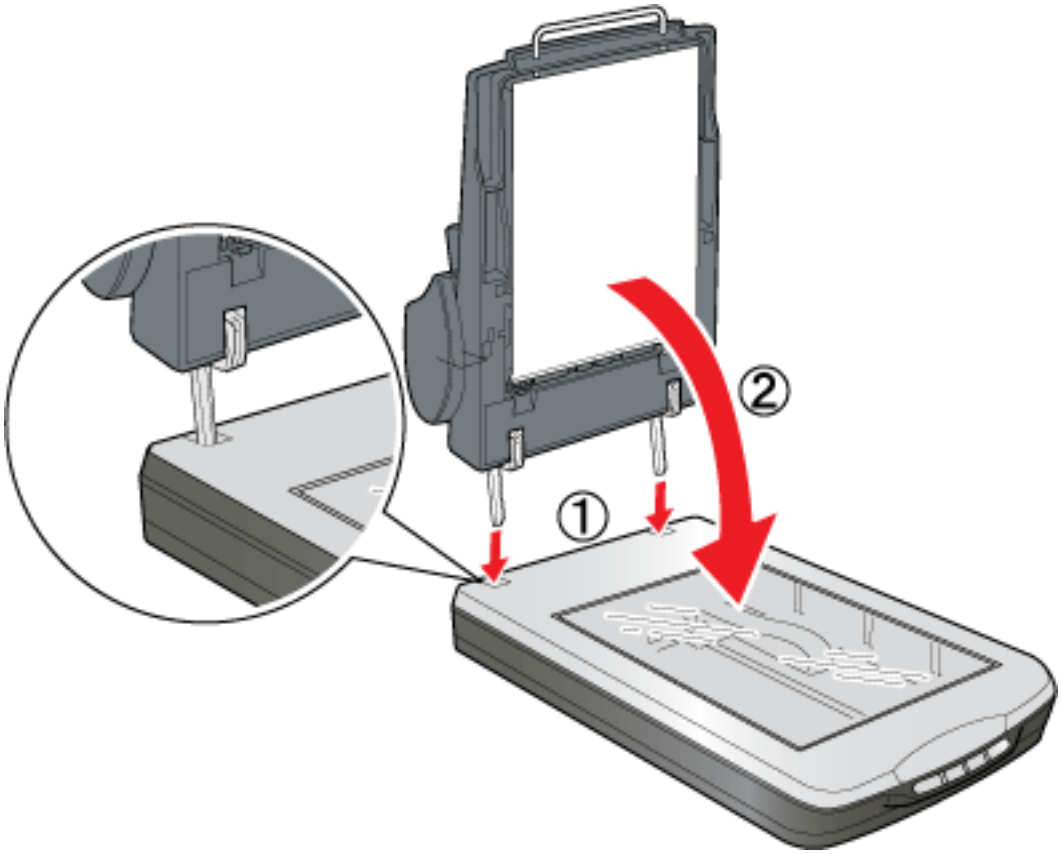


3. Open the scanner cover.

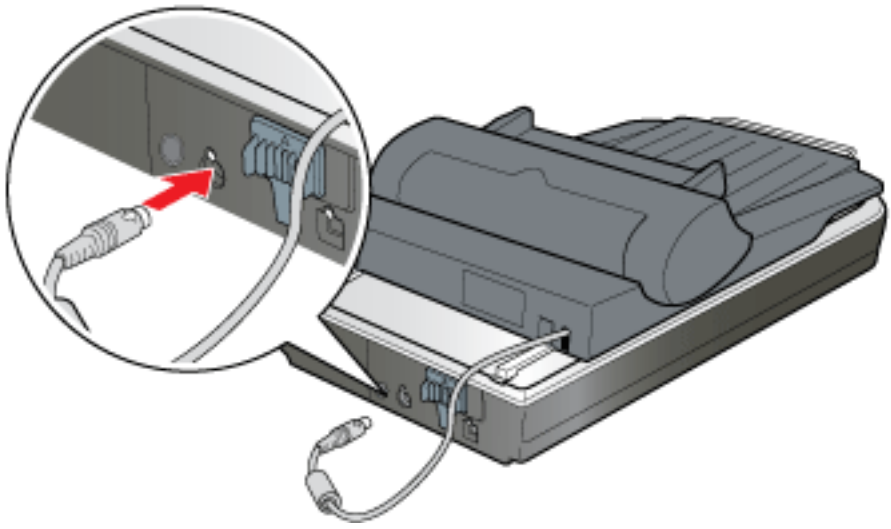
4 Pull the scanner cover straight up and off the scanner.

5 Remove the tape and other packing materials from the ADF.

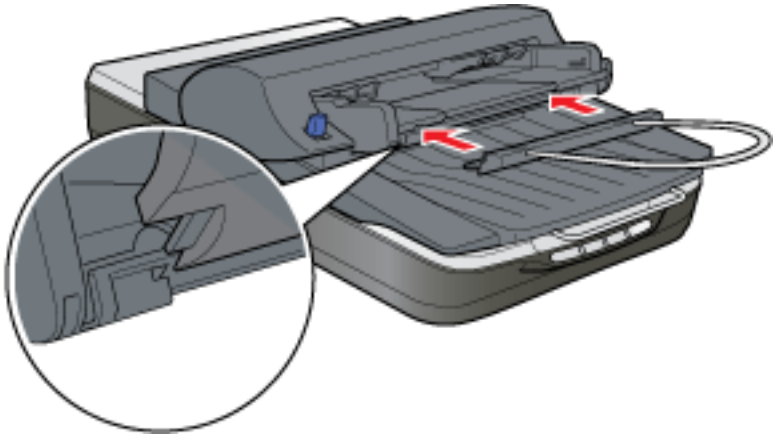
6 Insert the hinge posts on the ADF into the holes in the top of the scanner, at the back edge. Then close the ADF.



7 Connect the ADF cable to the scanner's **OPTION** port.



8 Slide the paper support into its slot on the edge of the sheet feeder on the ADF.



To load documents into the ADF, see Loading Documents in the Automatic Document Feeder.

Note:

If you need to scan documents or photos from the document table glass while the ADF is installed, follow the instructions in Placing Documents on the Document Table With the Automatic Document Feeder Installed.

Loading Documents in the Automatic Document Feeder

Document Specifications
Placing Documents on the Document Table With the Automatic Document Feeder Installed

You can load up to 30 sheets of paper in the ADF (based on a stack thickness of 0.2 inch [6 mm] or less).

For the best results, all of the sheets you load at one time should be the same size. If you load sheets of differing sizes, carefully follow the loading and scanning instructions for mixed-size documents.

The table below lists the sizes of paper you can load in the ADF. Also check Document Specifications for detailed specifications.

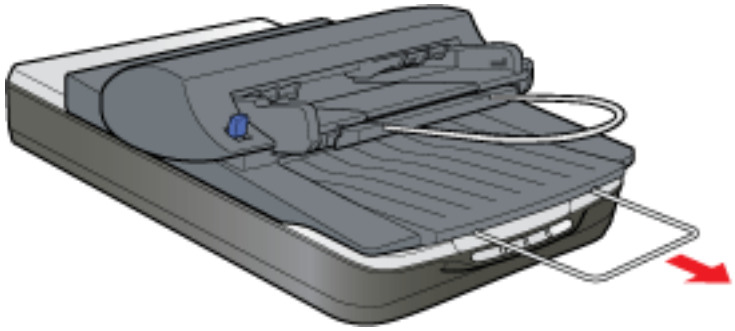
Paper name	Size
Letter	8.5 × 11 inches (215.9 × 279.4 mm)
Legal	8.5 × 14 inches (215.9 × 355.6 mm)
A4	8.27 × 11.69 inches (210 × 297 mm)
B5	7.17 × 10.1 inches (182 × 257 mm)

Note:

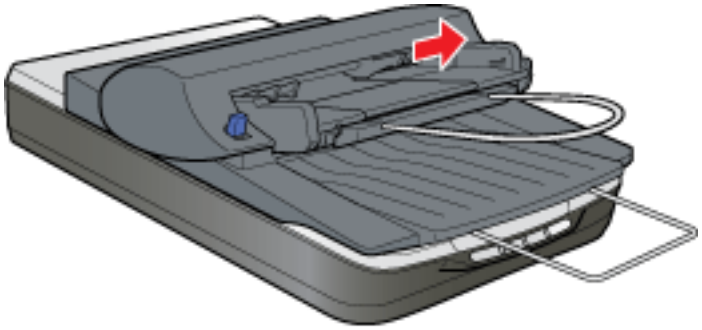
- Remove any documents from the document table and make sure there is no dust on the glass before loading documents in the ADF.
- If you need to scan documents or photos from the document table glass while the ADF is installed, follow the instructions in Placing Documents on the Document Table With the Automatic Document Feeder Installed.

Follow these steps to load documents in the ADF:

1 Extend the metal support at the end of the output tray on the ADF.

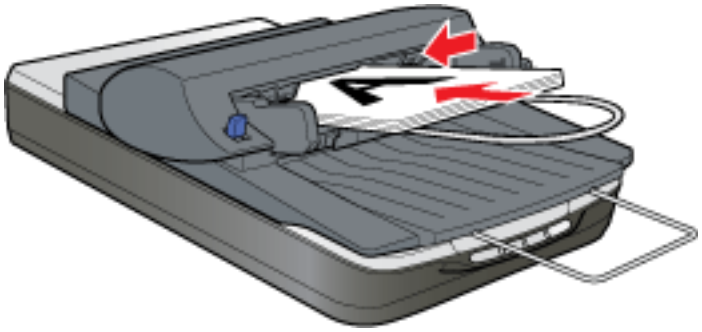


2 Slide the edge guide on the input tray of the ADF all the way to the right.



3 Place your stack of paper in the input tray with the printed side facing up and the top edge facing into the feeder. Slide the paper into the feeder until it meets resistance.

Then slide the edge guide over to the edge of the paper.



Note:

If you loaded mixed-size sheets, make sure the top edge of all the sheets are aligned so they feed into the ADF correctly.

To scan your documents using the ADF, see Scanning Using the Automatic Document Feeder.

Document Specifications

Load only documents that meet the following specifications in the ADF:

Size	Width 3.94 to 8.5 inches (100 to 215.9 mm) Length 5 to 14 inches (127 to 355.6 mm)
Thickness	0.07 to 0.16 mm
Weight	60 to 105 g/m^2
Paper type	High-quality bond paper
Printing type	Documents printed with impact printers, laser printers, or facsimile machines

Make sure your documents meet the following conditions before loading them into the ADF:

- The ink is dry.
- The document has no holes and is not ripped or wrinkled.
- The document has no staples, paper clips, or other objects attached to it; these may damage the feeder mechanism.
- The document has no folds within 0.2 inch (5 mm) from the edges.
- The document has no cut-out areas.
- The document is not a multipart form or bound.
- The document has no rear carbon coating.

Caution:

Do not feed photographs or valuable original artwork into the ADF. Misfeeding may wrinkle or damage the original. Scan high-quality color or halftone documents on the document table instead.

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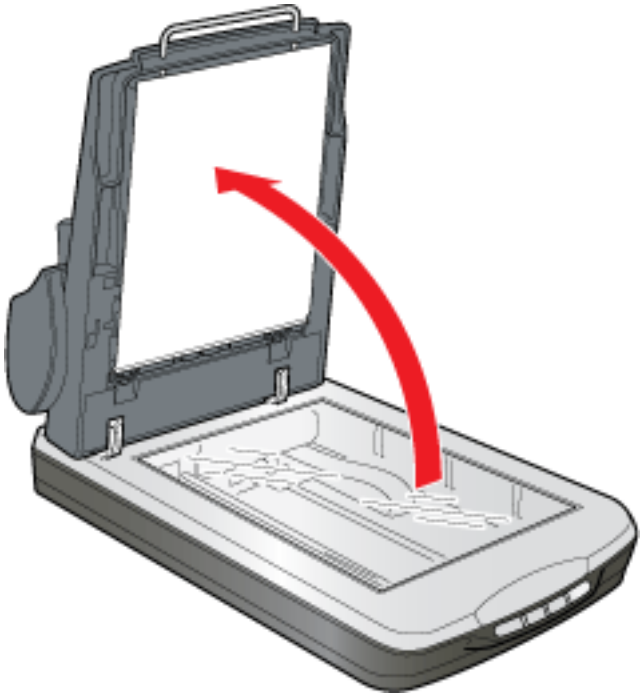
Placing Documents on the Document Table With the Automatic Document Feeder Installed

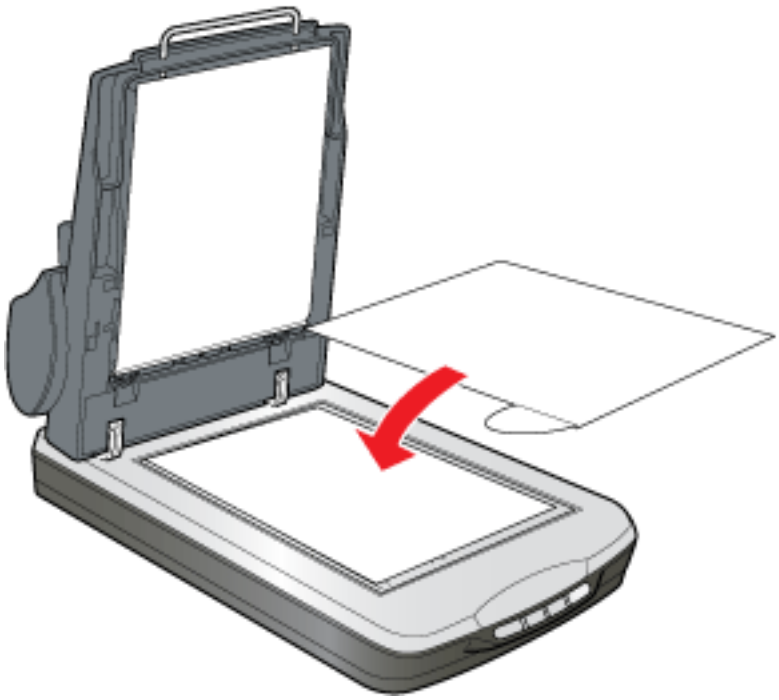
You can scan documents or photos on the document table glass while the ADF is installed. Follow these steps:

1. Open the ADF.

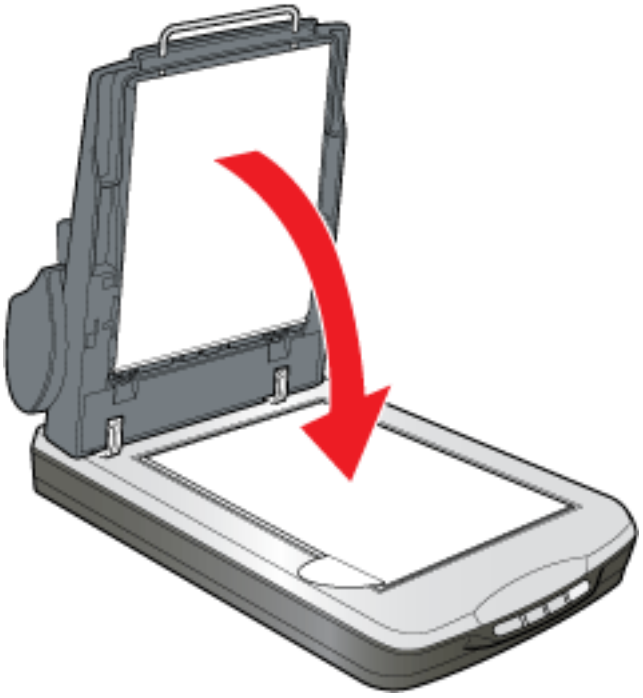


2 Place your document or photo on the document table, face-down on the glass. Make sure the top of the document or photo is against the rear right corner of the document table.

3 Place the ADF document mat on top of the document or photos on the document table.



4 Close the ADF.



Note:

- If you are scanning a large or thick document, you can scan with the ADF open. To scan documents or photos that are normal size and thickness, always close the ADF.
- Home Mode, Office Mode, and Professional Mode are available for scanning your documents on the document table while the ADF is installed.
- If you are using Home Mode or Professional Mode to scan your documents while the ADF is installed, see Selecting Basic Settings.
- If you are using Office Mode to scan your documents on the document table while the ADF is installed, make sure Office Mode is selected and then click the **Help** button in the Epson Scan window for instructions.

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Scanning Using the Automatic Document Feeder

When you scan documents with the ADF, it is best to use Office Mode.

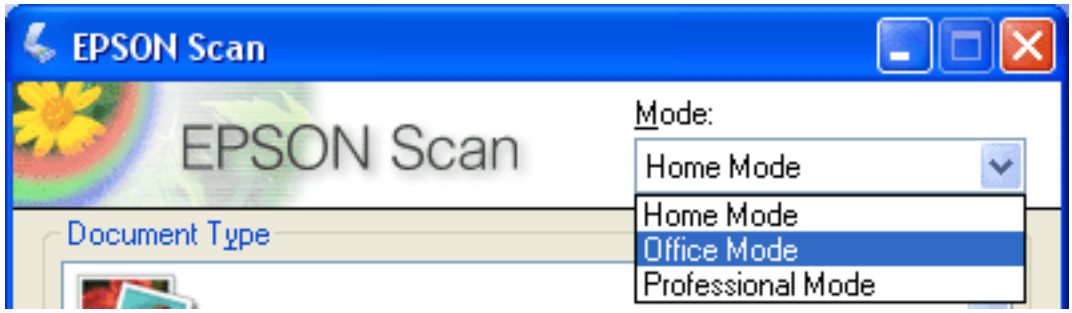
Note:

- Do not open the ADF while you are scanning or you will see an option error and paper feeding will stop.
- Do not load mixed-size document pages when you are scanning only a portion of each page.
- Office Mode and Professional Mode are available for scanning documents using the ADF.

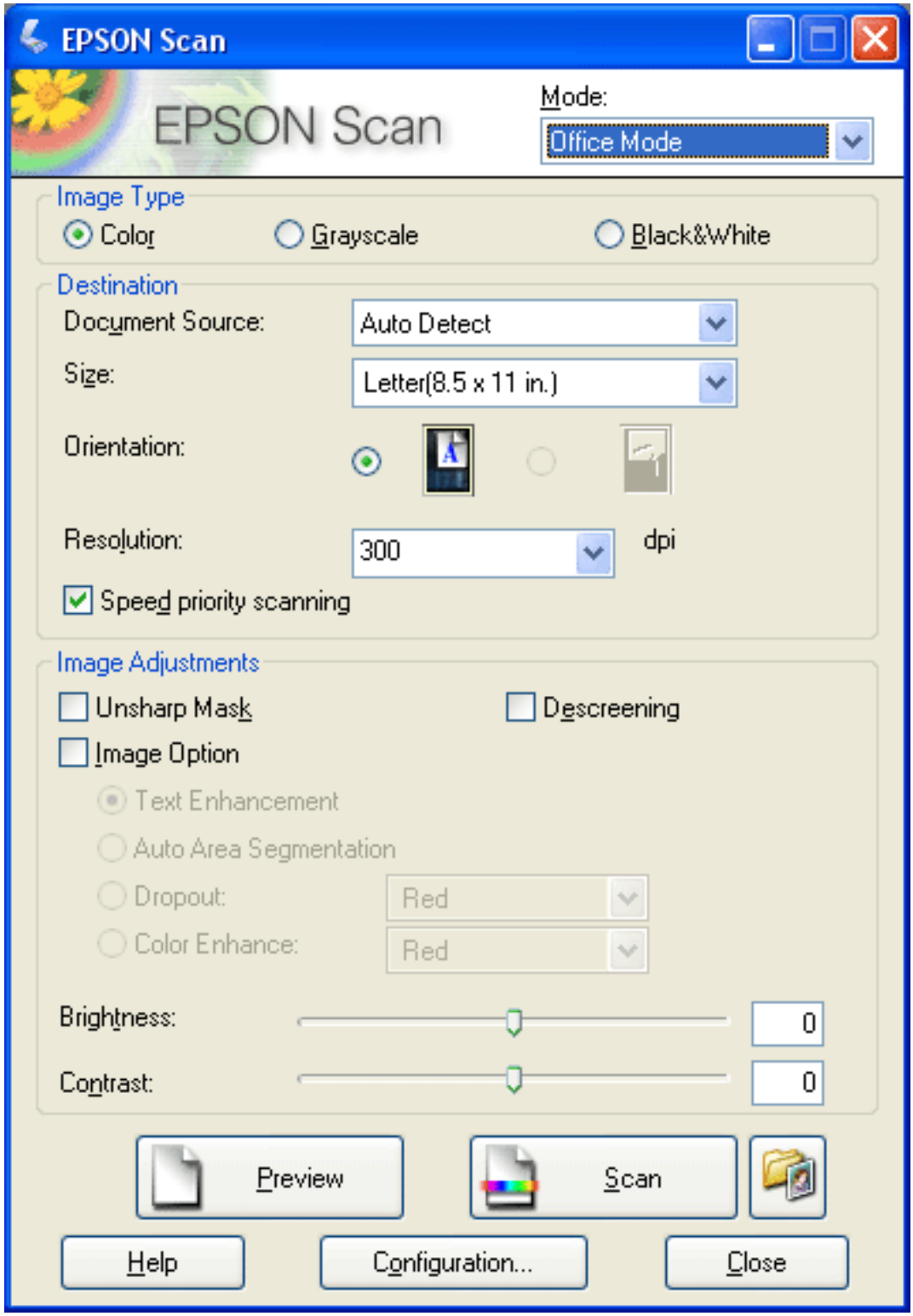
1. Make sure you installed the ADF and loaded your document in it. See Loading Documents in the Automatic Document Feeder for instructions.

2. Start Epson Scan. See one of these sections for instructions.
   - Starting a Scan With the Scanner Buttons
   - Starting a Scan With Epson Scan
   - Starting a Scan With Another Scanning Program

3. Click the arrow in the Mode box at the top right of the Epson Scan window. Then select **Office Mode**.



You see the Office Mode window:



4 Select whether the Image Type of your document pages is **Color**, **Grayscale**, or **Black&White**.

5 Select **Auto Detect**, **ADF**, or **Document Table** as the Document Source setting.

Note:

If you loaded mixed-size sheets at one time, select **Auto Detect**.

6 Select the size of your original document as the Size setting.

7 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 some 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
Print, convert to editable text (OCR)	300 dpi
Fax	200 dpi

8 Click the **Preview** button toward the bottom of the Epson Scan window.

The ADF loads your first document page, then Epson Scan prescans it and displays it in the Preview window. The ADF then ejects your first page.

9 Place your first page on top of the rest of the pages, then load the entire document into the ADF.

10 In the Preview window, draw a marquee (a line marking the scan area) around the portion of your document page that you want to scan.

For instructions on creating and adjusting a marquee, see Adjusting the Scan Area (Marquee).

11 Change any necessary Image Adjustments settings as listed in the table below.

Setting	Available mode(s) and description
Brightness	Adjusts the overall image lightness and darkness.
Contrast	Adjusts the difference between the light and dark areas of the overall image.
Unsharp Mask	Turn on to make the edges of image areas clearer for an overall sharper image. Turn off to leave softer edges.
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.

Text Enhancement	Enhances text recognition when scanning text documents.
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**.
Auto Area Segmentation	Makes grayscale images clearer and text recognition more accurate by scanning text in black & white while retaining the grayscale of the image. (Available only when you select **Black&White** as the Image Type setting.)
Image Option > Color Enhance	Enhances the color you select (red, green, or blue) in the scan. (Available only when you select **Grayscale** or **Black&White** as the Image Type setting.)
Image Option > Dropout	Drops out the color you select (red, green, or blue) from the scan. (Available only when you select **Grayscale** or **Black&White** as the Image Type setting.)

12 Click the **Scan** button to scan your document pages.

13 What happens next depends on how you started your scan.

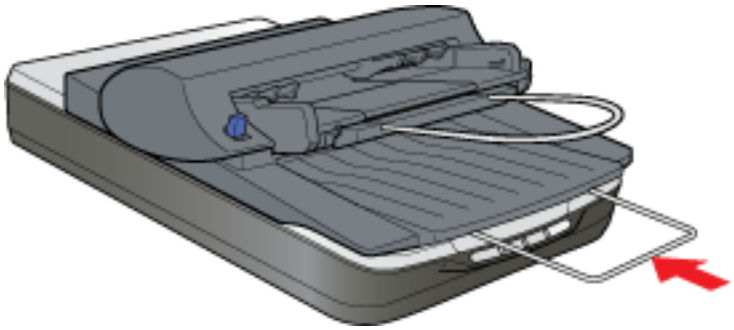
- If you started your scan by pressing the Start button or running Epson Scan as a standalone program, you see the File Save Settings window. See Selecting File Save Settings for details.
- If you started your scan from a scanning program such as ABBYY FineReader, your scanned pages open in the program window. Click **Close** to close the Epson Scan window and view your scanned pages in the program.

Cleaning and Replacing the Paper Path Guide

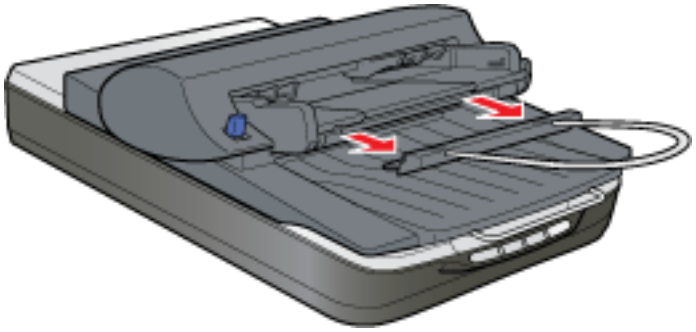
After you have used the ADF for a long time, a line of dots may begin to appear on the scanned images. If this happens, follow the steps below to clean the paper path guide. If the problem persists, you may need to replace the paper path guide with the spare one that came with your ADF.

1. Turn off the scanner using its power switch.

2. Push in the support on the edge of the output tray on the ADF.



3. Remove the paper support from the input tray of the ADF.

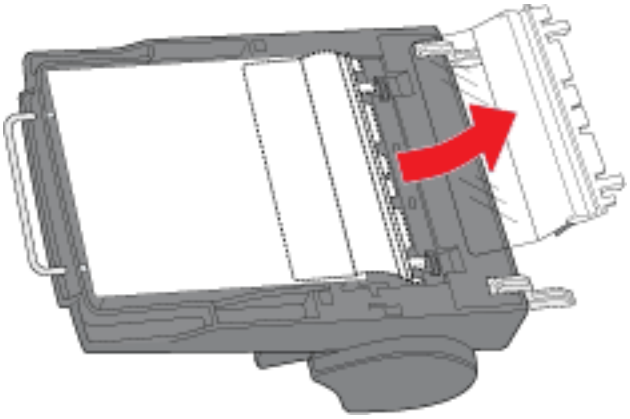


4. If the ADF is installed on your scanner, disconnect its cable from the scanner's **OPTION** port, open the ADF, and lift it off of the scanner.

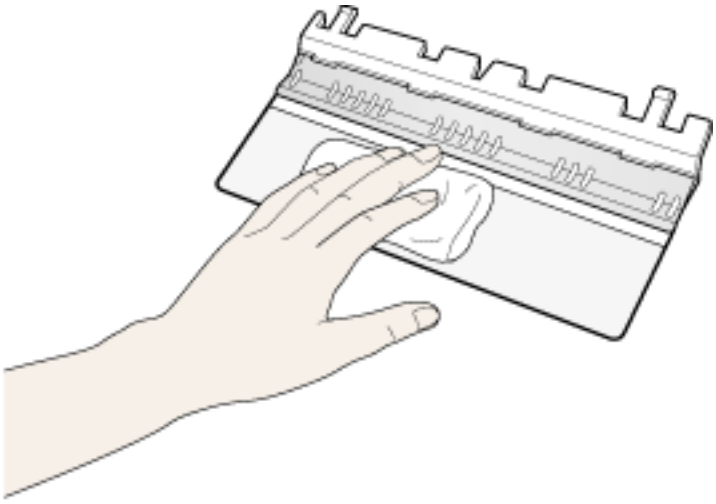
5. Turn the ADF over onto its top and carefully place it on a stable surface.

6 Lift up the edges of the clips holding the paper path guide in place and push the clips all the way out of the notches to release them.

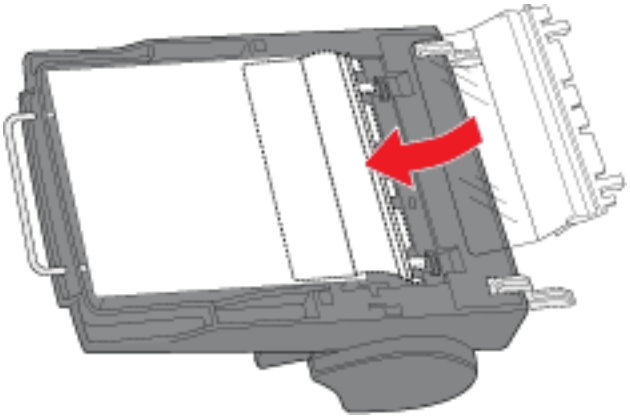
7 Remove the paper path guide in the direction shown below.



8 Using a soft, dry cloth, wipe the clear portion of the paper path guide to clean off any dust or dirt.



9 Slide the paper path guide back into place beneath the white document mat on the ADF. Then insert the clips beneath the notches and push them all the way back until they click into place.



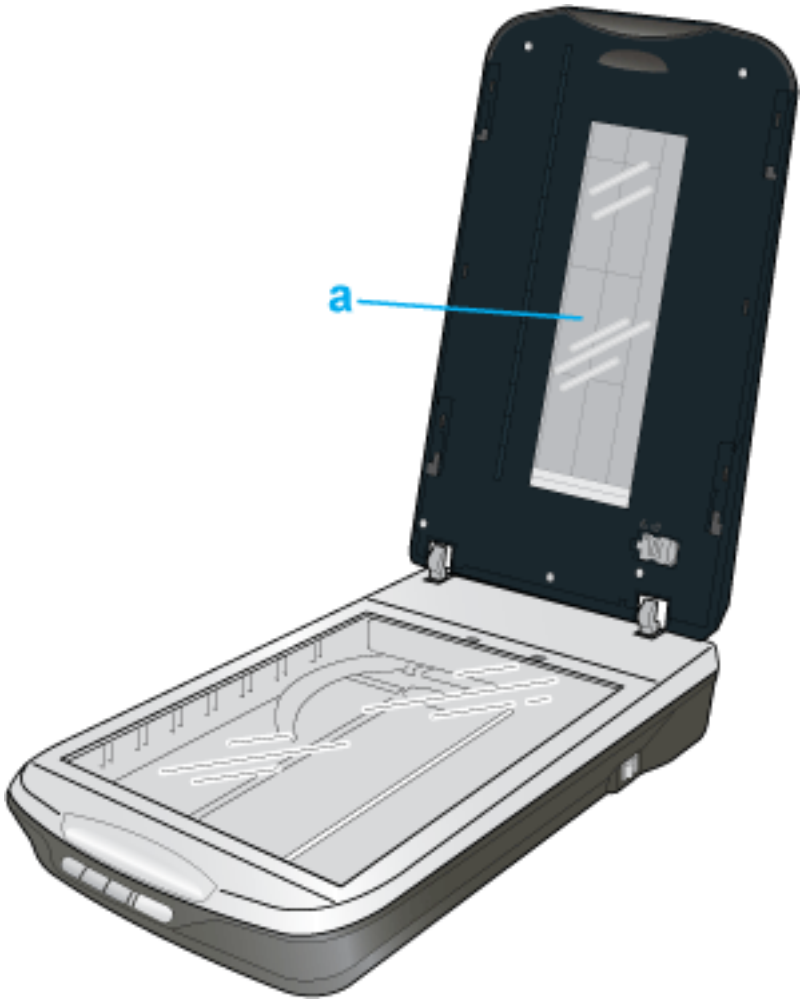
10 Install the ADF on the scanner (see Installing the Automatic Document Feeder). Then try scanning with the ADF again, as described in Scanning Using the Automatic Document Feeder.

If you still see a line of dots in your images, follow these steps again to remove the paper path guide and replace it with the spare one that came with your ADF.

Cleaning the Scanner

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

1. Turn off the scanner using its power switch.
2. Unplug the AC adapter cord from the scanner.
3. Clean the outer case with a cloth dampened with mild detergent and water.
4. If the glass surface of the document table gets dirty, clean it with a soft, dry microfiber cloth. If the glass surface is stained with grease or some other hard-to-remove material, use a small amount of glass cleaner and a soft cloth to remove it. Spray the cleaner onto the soft cloth; never spray cleaner directly onto the glass. Wipe off all remaining liquid.
5. 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.

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, paint 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.

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 orange. When this happens, the light source assembly must be replaced. For details, contact Epson. See Epson Technical Support for details.

Caution:

Never open the scanner case. If you think repairs or adjustments are necessary, contact Epson.

Transporting the Scanner

Before transporting the scanner for a long distance or storing it for an extended period of time, you need to lock the scanner's carriage and transparency unit to prevent damage.

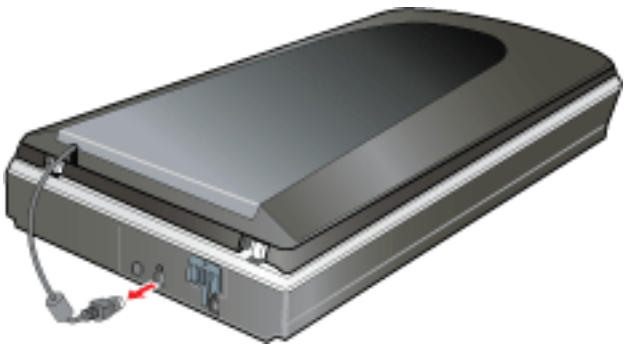
1. Plug in the scanner, connect it to your computer, turn on the scanner using its power switch, and wait until the carriage moves to the home position (near the cover hinge). While the status light is green, turn off the scanner using its power switch.

Note:

If the optional ADF is installed, make sure the scanner is turned off, then disconnect the ADF's cable and remove the ADF from the scanner. Place the scanner cover on the scanner, but do not connect the cover cable.

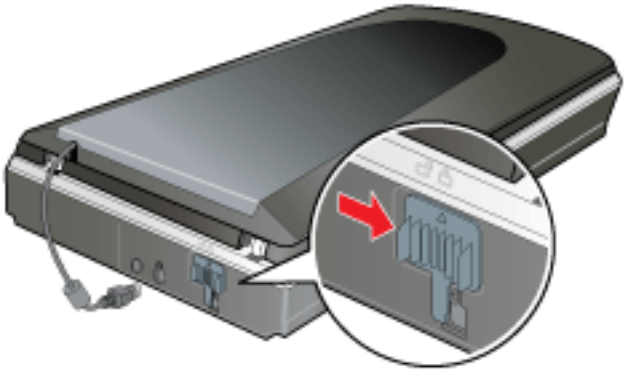
2. Open the scanner cover and slide the transparency unit transportation lock to the locked position. Then close the scanner cover.

3 If the cover cable is attached, disconnect it.



4 Disconnect the USB cable.

5 On the back of the scanner, slide the transportation lock to the locked position to secure the scanner carriage.



6 Attach the protective materials, then repack the scanner in its original box or a similar box that fits the scanner snugly.

Reading the Status Light

If an error occurs, the scanner stops operating and the status light flashes orange. This indicates one of the following problems:

- The scanner is not connected to your computer properly or your software is not fully installed. See the *Start Here* sheet that came with your scanner for instructions on installing the software and connecting the scanner to your computer.
- The scanner and/or the transparency unit transportation lock is locked. Slide the lock to the unlock position.
- The scanner cover cable or optional Automatic Document Feeder cable is not connected to the scanner's **OPTION** port. Connect the cable to the port.

Note:

Before connecting or disconnecting the scanner cover cable or the Automatic Document Feeder cable, turn off the scanner using its power switch.

After trying these solutions, turn off the scanner using its power switch, then turn it back on.

If the status light is still flashing:

- The scanner may be malfunctioning.
- The scanner light source may need to be replaced.
- The connected optional equipment may be malfunctioning.

Contact Epson. See Epson Technical Support for details.

Scanner Problems

The Scanner Does Not Scan
The Scanner Is Not Recognized by Your System
Pressing a Scanner Button Does Not Start the Correct Program
You Cannot Scan Multiple Images at One Time

See your *Start Here* sheet for instructions on setting up your scanner. If you have problems operating the scanner, make sure:

- Your scanner's AC adapter is securely connected to the scanner and a working electrical outlet.
- The power outlet works. (If necessary, test it by plugging in another electrical device and turning it on.)

If you still have problems scanning, see the other topics in this section.

The Scanner Does Not Scan

- Wait until the status light turns green to indicate that the scanner is ready to scan.
- Your system may not work properly if you use a USB cable other than the one that came with your scanner.
- The scanner may not work properly when connected to the computer through more than one USB hub. Connect the scanner directly to the computer's USB port or through one hub only.
- The scanner may not work properly when your computer is in standby mode (Windows) or sleep mode (Mac OS X). Restart Epson Scan and try scanning again.
- The scanner may not work properly if you upgrade your operating system but do not reinstall Epson Scan. See Uninstalling Your Scanning Software for instructions on uninstalling Epson Scan. Reinstall Epson Scan by following the instructions in your *Start Here* sheet.
- In Mac OS X Classic mode, the scanner will not work properly. Use the Mac OS X interface instead.

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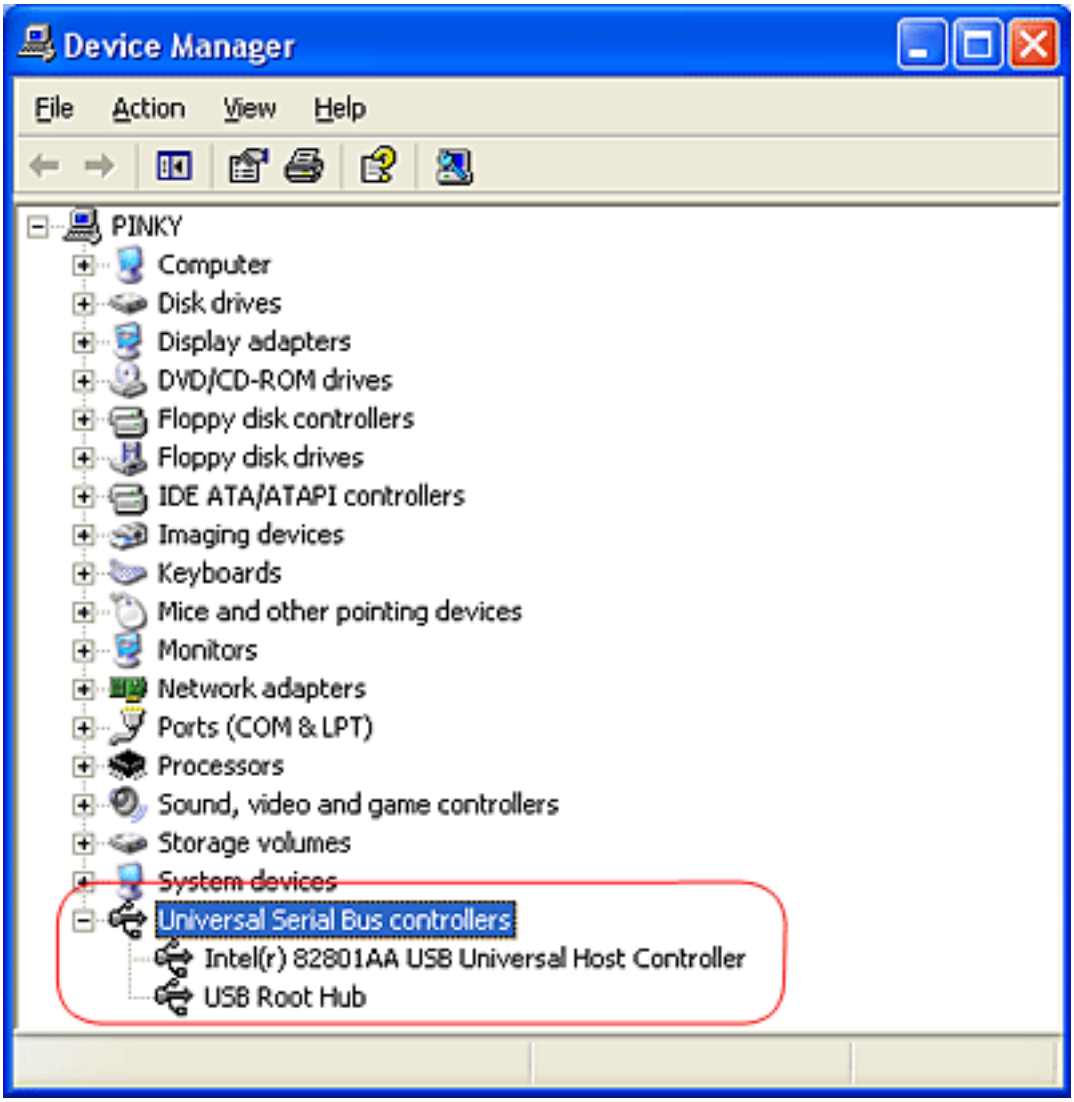
The Scanner Is Not Recognized by Your System

First check your connection to the scanner and computer:

- Make sure your scanner's AC adapter is securely connected to the scanner and a working electrical outlet.
- Make sure the interface cable is securely connected to the scanner and your computer, and that the cable is not damaged or crimped.
- Your system may not work properly if you use a USB cable other than the one that came with your scanner.
- The scanner may not work properly when connected to the computer through more than one USB hub. Connect the scanner directly to the computer's USB port or through one hub only.
- Check to see if your computer system meets the requirements for the scanner interface you are using. See System Requirements for details.
- If Windows still has problems recognizing your scanner, make sure your computer supports USB. See Checking For Windows USB Support for instructions.

Checking For Windows USB Support

1. Do one of the following.
   - **Windows Vista**: Click **> Control Panel > System and Maintenance > System**, or click **> Control Panel** and then double-click the **System** icon.
   - **Windows XP**: Click **Start > Control Panel > Performance and Maintenance > System**, or click **Start > Control Panel** and then double-click the **System** icon.
   - **Windows 2000**: Click **Start > Settings > Control Panel**. Then double-click the **System** icon.
2. Do one of the following.
   - **Windows Vista**: Click **Device Manager**, then click **Continue** in the User Account Control window.
   - **Windows XP and 2000**: Click the **Hardware** tab, then click the **Device Manager** button.
3. Scroll down if necessary, then double-click **Universal Serial Bus controllers**.



If a **USB Universal Host Controller** and **USB Root Hub** are listed, Windows supports USB.

4 Try scanning again. If your scanner still is not recognized, contact Epson for assistance. See Epson Technical Support for details.

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Pressing a Scanner Button Does Not Start the Correct Program

- Make sure Epson Scan and Epson Event Manager are installed correctly. See the *Start Here* sheet for instructions.
- Make sure your Windows system is set up for scanner events as follows.

Windows Vista:

Click **> Control Panel > Hardware and Sound > Scanners and Cameras**, or

click **> Control Panel** and double-click the **Scanners and Cameras** icon. Click your scanner's icon, then click **Properties** (when you see the User Account Control window, click **Continue**). 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. If you are using Epson Event Manager with the button, you must select **Epson Event Manager** in the Start this program list.

Windows XP:
Click **Start > Control Panel > Printers and Other Hardware > Scanners and Cameras**, or click **Start > Control Panel** and double-click the **Scanners and Cameras** icon. Then right-click your scanner's icon and select **Properties**. 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. If you are using Epson Event Manager with the button, you must select **Epson Event Manager** in the Start this program list.

Windows 2000:
Click **Start > Settings > Control Panel**, double-click the **Scanners and Cameras** icon, then select your scanner and click **Properties**. Click the **Events** tab in your scanner's Properties window and make sure the **Disable device events** checkbox is not checked. Also, make sure the desired button is selected in the Scanner events list box, and the desired application in the Send to this application list is selected. If you are using Epson Event Manager with the button, you must select **Epson Event Manager** in the Send to this application list.

- In Mac OS X, make sure you did not install the scanner software in Classic mode or run it in Classic mode.

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You Cannot Scan Multiple Images at One Time

- Position photos at least 0.8 inch (20 mm) apart from each other on the document table.
- Make sure your scanning program can scan multiple images.

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Scanning Software Problems

You Cannot Start Epson Scan
The Scanner Software Does Not Work Properly
You Cannot Scan in Full Auto Mode
You Cannot Scan Using the Thumbnail Preview
Scanning Takes a Long Time
Images Are Rotated Incorrectly

Note:

- Periodically, it's a good idea to check Epson's support website for free updates to your Epson Perfection V500 Office software (U.S. downloads or Canadian downloads). With Windows, you can also select or **Start > All Programs** or **Programs > EPSON > EPSON Scan > Perfection V500 Office Scanner Driver Update**.
- Some Epson Scan settings may be unavailable or grayed out based on the currently selected settings or the currently installed optional accessories.

You Cannot Start Epson Scan

- Make sure the scanner is turned on.
- Turn off your computer and scanner, then check the USB cable connection between them to make sure it is secure.
- The scanner may not work properly when your computer is in standby mode (Windows) or sleep mode (Mac OS X). Restart Epson Scan and try scanning again.
- The scanner may not work properly if you upgrade your operating system but do not reinstall Epson Scan. See Uninstalling Your Scanning Software for instructions on uninstalling Epson Scan. Reinstall Epson Scan by following the instructions in your *Start Here* sheet.
- Make sure that Epson Scan is selected in your scanning program. See Starting

a Scan With Another Scanning Program for documents and photos or Starting a Scan With Another Scanning Program for film and slides.

- In the Windows Device Manager, make sure your scanner's name appears under **Imaging devices** without a question (**?**) or an exclamation (**!**) mark, or a red **X**. If the scanner appears with one of these marks or as an **Unknown device**, uninstall Epson Scan as described in Uninstalling Epson Scan. Then reinstall it by following the instructions in your *Start Here* sheet.

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The Scanner Software Does Not Work Properly

- Make sure your computer has enough memory and meets the other system requirements for the software you are using. See your software and computer documentation for details.
- With Windows, check whether your scanner appears more than once in the Scanners and Cameras utility. Do one of the following:

  Windows Vista:

  Click **> Control Panel > Hardware and Sound > Scanners and Cameras**, or click **> Control Panel** and double-click the **Scanners and Cameras** icon. Then delete your scanner's icon and uninstall and reinstall Epson Scan. See Uninstalling Your Scanning Software for instructions on uninstalling Epson Scan. Reinstall Epson Scan by following the instructions in your *Start Here* sheet.

  Windows XP:
  Click **Start > Control Panel > Printers and Other Hardware > Scanners and Cameras**, or click **Start > Control Panel** and double-click the **Scanners and Cameras** icon. Then delete your scanner's icon and uninstall and reinstall Epson Scan. See Uninstalling Your Scanning Software for instructions on uninstalling Epson Scan. Reinstall Epson Scan by following the instructions in your *Start Here* sheet.

  Windows 2000:
  Click **Start > Settings > Control Panel**, double-click the **Scanners and Cameras** icon, and delete your scanner from the list of installed devices. Then uninstall and reinstall Epson Scan. See Uninstalling Your Scanning Software for instructions on uninstalling Epson Scan. Reinstall Epson Scan by following the instructions in your *Start Here* sheet.
- The scanner may not work properly if Epson Scan is open and your computer goes into standby mode (Windows) or sleep mode (Mac OS X). Restart Epson Scan and try scanning again.
- The scanner may not work properly if you upgrade your operating system but do not reinstall Epson Scan. See Uninstalling Your Scanning Software for instructions on uninstalling Epson Scan. Reinstall Epson Scan by following the instructions in your *Start Here* sheet.

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You Cannot Scan in Full Auto Mode

Epson Scan may not be able to detect certain types of images, or may crop or group the images unexpectedly. This may happen if you scan the following items:

- Images with a dark background
- Images with a very bright background
- Color negative film with extremely light or dark base color (background)

Note:

> In Full Auto Mode, you can scan only 35mm color negative film strips or color positive slides. To scan other types of film, use Home or Professional Mode.

- Panorama and regular size images being scanned at the same time

Try one or more of the following solutions.

For documents or photos:

- Make sure the documents or photos are placed on the scanner's document table correctly. See Placing Documents or Photos for instructions.
- Try scanning in Home or Professional Mode instead. To change the scan mode, see Changing the Scan Mode.

For film or slides:

- 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 for instructions.
- 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 or slides. If the problem persists, try scanning in Home or Professional Mode. To change the scan mode, see Changing the Scan Mode.
- Make sure the document mat is removed when you scan film or slides. See Removing the Document Mat.
- Try scanning in Home or Professional Mode instead. To change the scan mode, see Changing the Scan Mode.

Top

You Cannot Scan Using the Thumbnail Preview

Epson Scan may not be able to detect certain types of images, or may crop or group the images unexpectedly. This may happen if you scan the following items:

- Images with a dark background
- Images with a very bright background
- Color negative film with extremely light or dark base color (background)
- Panorama and regular size images being scanned at the same time

Try one or more of the following solutions.

For documents or photos:

- Make sure the documents or photos are placed on the scanner's document table correctly. See Placing Documents or Photos for instructions.
- Use normal preview (if available) and create marquees on the areas you want to scan. See Previewing and Adjusting the Scan Area for instructions.

For film or slides:

- 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 for instructions.
- In the Configuration window, adjust the thumbnail cropping area using the Thumbnail Cropping Area slider. See Epson Scan Help for details.
- Make sure the document mat is removed when you scan film or slides. See Removing the Document Mat for instructions.
- Make sure the Document Type setting (Home Mode) or Document Type and Film Type settings (Professional Mode) are set correctly for your film/slide type. See Selecting Basic Settings for instructions.
- Use normal preview (if available) and create marquees on the areas you want to scan. See Previewing and Adjusting the Scan Area for instructions.

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Scanning Takes a Long Time

- If you are scanning film or slides, or using the scanner's Digital ICE Technology feature, scanning takes longer than usual.
- Computers with USB 2.0 (high speed) ports can transfer data faster than those with USB 1.1 ports. Therefore, the scanning time may be shorter if you use a computer with a USB 2.0 port. If you are using a USB 2.0 port with your scanner, make sure it meets the system requirements. See System Requirements for details.
- Try scanning your original at a lower Resolution setting to speed up scanning. See Selecting the Scan Resolution for documents and photos, or Selecting the Scan Resolution for film and slides.

Images Are Rotated Incorrectly

Try one or more of the following solutions.

For documents or photos:

- Make sure the documents or photos are placed on the scanner's document table correctly. See Placing Documents or Photos for instructions.
- Try disabling or enabling the **Auto Photo Orientation** setting. To access this setting, click **Customize** if you're scanning in Full Auto Mode or **Configuration** if you're scanning in Home or Professional Mode.

  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 2 inches (5.1 cm) or smaller on any side.
  - The Auto Photo Orientation feature may not work correctly for all image types. For example, it works best on outdoor images that include a bright sky at the top. For images of people, it works best when they are facing forward and are not too far away.

- If you're scanning using Thumbnail previews (Home or Professional Mode only), select the image and click the rotation icon to rotate it. See Previewing and Adjusting the Scan Area for instructions.

For film or slides:

- 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 for instructions.
- Try disabling or enabling the **Auto Photo Orientation** setting. To access this setting, click **Customize** if you're scanning in Full Auto Mode or **Configuration** if you're scanning in Home or Professional Mode.

  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 2 inches (5.1 cm) or smaller on any side.
- The Auto Photo Orientation feature may not work correctly for all image types. For example, it works best on outdoor images that include a bright sky at the top. For images of people, it works best when they are facing forward and are not too far away.

- If you're scanning using Thumbnail previews (Home or Professional Mode only), select the image and click the rotation icon to rotate it. See Previewing and Adjusting the Scan Area for instructions.

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Scan Quality Problems

- The Edges of Your Document Are Not Scanned
- You See Only a Few Dots in Your Scanned Image
- A Line of Dots Always Appears in Your Scanned Images
- Straight Lines in Your Image Come Out Crooked
- Your Image Is Distorted or Blurred
- Colors Are Patchy or Distorted at the Edges of Your Image
- Your Scanned Image Is Too Dark
- An Image on the Back of Your Original Appears in Your Scanned Image
- Ripple Patterns Appear in Your Scanned Image
- Characters Are Not Recognized Well When Converted into Editable Text (OCR)
- Scanned Colors Differ From the Original Colors
- You Have Trouble Adjusting the Scan Area in the Thumbnail Preview

The Edges of Your Document Are Not Scanned

Move the document about 0.12 inch (3 mm) away from the horizontal and vertical edges of the document table to avoid cropping.

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You See Only a Few Dots in Your Scanned Image

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

Top

A Line of Dots Always Appears in Your Scanned Images

- The document table or transparency unit window may be dusty or scratched. Clean the document table and transparency unit window as described in Cleaning the Scanner. If you still have the problem, contact Epson. See Epson Technical Support for details.
- If you are using the optional ADF, you may need to clean or replace the paper path guide. See Cleaning and Replacing the Paper Path Guide for instructions.

Top

Straight Lines in Your Image Come Out Crooked

Make sure the document lies perfectly straight on the document table. Align the text or any vertical or horizontal lines with the marks at the rear left and front right corners of the document table.

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Your Image Is Distorted or Blurred

- Make sure the document or photo lies flat on the document table. Also make sure your document or photo is not wrinkled or warped.

Caution:

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

- 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.
- Make sure **Unsharp Mask** is selected in Epson Scan's Professional Mode window. See

Adjusting the Color and Other Image Settings for documents and photos or Adjusting the Color and Other Image Settings for film and slides.

- Adjust the Auto Exposure setting in Epson Scan's Professional Mode window. See Adjusting the Color and Other Image Settings for documents and photos or Adjusting the Color and Other Image Settings for film and slides.
  You can also click **Configuration** in the Epson Scan window, click the **Color** tab, then click the **Recommended Value** button to return the Auto Exposure setting to the default value. See Epson Scan Help for details.
- Increase the Resolution setting. See Selecting the Scan Resolution for documents and photos or Selecting the Scan Resolution for film and slides.

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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.

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Your Scanned Image Is Too Dark

- Change the **Display Gamma** setting to match your output device, such as a monitor or printer, in the Epson Scan Configuration window. See Epson Scan Help for details.
-

- If your original is too dark, try using the **Backlight Correction** feature. See Fixing Backlit Photos for instructions.
- Adjust the Auto Exposure setting in Epson Scan's Professional Mode window. See Adjusting the Color and Other Image Settings for documents and photos or Adjusting the Color and Other Image Settings for film and slides.
  You can also click **Configuration** in the Epson Scan window, click the **Color** tab, then click the **Recommended Value** button to return the Auto Exposure setting to the default value. See Epson Scan Help for details.
- Adjust the **Brightness** setting in Epson Scan's Home or Professional Mode (see Epson Scan Help). Or adjust the brightness using the Histogram in Professional Mode (see Epson Scan Help).
- Check the brightness and contrast settings of your computer monitor.

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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 make sure the Document Type and Image Type settings are correct for your original. See Selecting Basic Settings for details.

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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.

Original image	Descreening applied

- Select the **Descreening** checkbox in Epson Scan's Home or Professional Mode window. 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 for instructions.
- Select a lower **Resolution** setting. See Selecting the Scan Resolution for instructions.

Note:

- You cannot remove ripple patterns when you are scanning film or monochrome images.
- You cannot remove ripple patterns when you are scanning in Home Mode using a resolution higher than 600 dpi. In Professional Mode, you may be able to remove ripple patterns at resolutions higher than 600 dpi if you reduce the Scale setting.

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

- Make sure the document lies perfectly straight on the document table. Align the text or any vertical or horizontal lines with the marks at the rear left and front right corners of the document table.
- In Home Mode, select **Black&White** as the Image Type setting. In Professional Mode, select **Black & White** as the Image Type setting, then click the **+** next to **Image Type** and select **None** for the B&W Option setting. Then try adjusting the **Threshold** setting. See Converting Scanned Documents Into Editable Text for instructions.
- Check your OCR software manual to see if there are any settings you can adjust in your OCR software.

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Scanned Colors Differ From the Original Colors

- Change the Image Type setting in Epson Scan's Home or Professional Mode. See Selecting Basic Settings for documents and photos or Selecting Basic Settings for film and slides. Select different combinations of this setting and the others mentioned below.
- Change the Display Gamma setting to match your output device, such as a monitor or printer, in the Epson Scan Configuration window. See Epson Scan Help for details.
- Adjust the **Auto Exposure** setting in Epson Scan's Professional Mode. Also try selecting a different Tone Correction setting. See Adjusting the Color and Other Image Settings for documents and photos or Adjusting the Color and Other Image Settings for film and slides.
-

- Try selecting the following settings in the Configuration window: **Color Control**, **Continuous auto exposure**, and **Recommended Value** (on the Color tab). Also try turning off the **Fast Preview** setting. See Epson Scan Help for details.
- Make sure to enable the Embed ICC Profile setting. To access this setting, click the **Customize** button and then the **File Save Settings** button if you are scanning in Full Auto Mode, or the File Save Settings button to the right of the Scan button if you are scanning in Home or Professional Mode. The File Save Settings window appears. Select **JPEG** or **TIFF** as the Type setting, then click **Options**. (If you started Epson Scan from a program like Adobe Photoshop Elements, this button does not appear.)
- 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 Mac OS X. With Windows, add a color profile that matches your monitor to improve on-screen color matching. Also, see Scanning and Printing Color Accurate Images. (Exact color matching is very difficult. Check your software and monitor documentation for information on color matching and calibration.)
- 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).

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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 one of these sections for instructions.

  Documents or photos: Adjusting the Scan Area (Marquee)

  Film or slides: Adjusting the Scan Area (Marquee)
- In the Configuration window, adjust the thumbnail cropping area using the Thumbnail Cropping Area slider. See Epson Scan Help for details.
- Switch to the normal preview type (if available) and preview your image again. See one of these sections for instructions.

  Documents or photos: Previewing and Adjusting the Scan Area

  Film or slides: Previewing and Adjusting the Scan Area

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Film or Slide Scanning Problems

You Cannot Scan Film or Slides
Negative Film Preview Images Look Strange
Striped Rings Appear in Your Scanned Image
A Line Appears in the Previewed Image

You Cannot Scan Film or Slides

- Make sure the document mat is removed from the scanner cover. See Removing the Document Mat for instructions.
- Make sure the scanner cover is securely connected to the scanner's **OPTION** port. See Removing the Document Mat for instructions.
- Make sure the Document Type setting (Home Mode) or Document Type and Film Type settings (Professional Mode) are set correctly for your film/ slide type. See Selecting Basic Settings for instructions.
- Make sure your film or slides are placed on the scanner correctly. See Placing Film in the Holder or Placing Slides in the Holder for instructions.

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Negative Film Preview Images Look Strange

- Make sure the Document Type setting (Home Mode) or Document Type and Film Type settings (Professional Mode) are set correctly for your film. See Selecting Basic Settings for instructions.
- 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 as described in Previewing and Adjusting the Scan Area. Then click the **Zoom** button to preview the area.
- Try previewing images in thumbnail preview instead. See Previewing and Adjusting the Scan Area for instructions on switching the preview type.

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Striped Rings Appear in Your Scanned Image

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

Place the film 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 Previewing and Adjusting the Scan Area for instructions.

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A Line Appears in the Previewed Image

The document table or transparency unit window may be dusty or scratched. Clean the document table and transparency unit window as described in Cleaning the Scanner. If you still have the problem, contact Epson. See Epson Technical Support for details.

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Optional Automatic Document Feeder Problems

You Cannot Scan Using the Automatic Document Feeder
Paper Jams in the Automatic Document Feeder

You Cannot Scan Using the Automatic Document Feeder

- Make sure the optional ADF is installed correctly. See Installing the Automatic Document Feeder for instructions.
- Make sure you have selected either Office or Professional Mode in Epson Scan. See Scanning Using the Automatic Document Feeder for instructions.
- Make sure **Auto Detect**, **ADF**, or **Document Table** is selected as the Document Source in Epson Scan. See Scanning Using the Automatic Document Feeder for instructions.
- If the ADF is open, close it and try scanning again.

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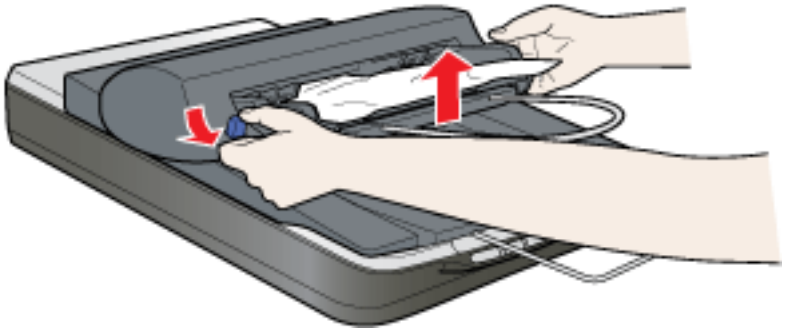
Paper Jams in the Automatic Document Feeder

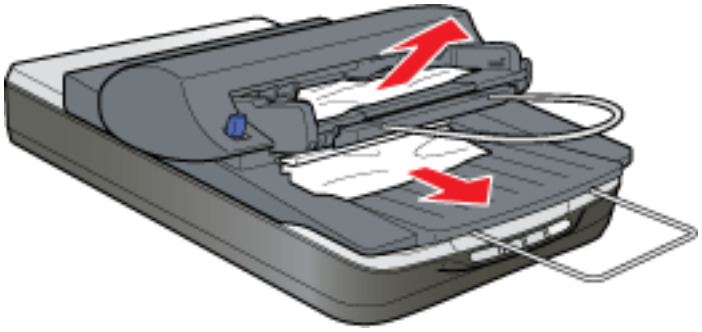
If paper jams inside the ADF, open the ADF and remove any paper from the document table. Then look to see if paper is extending from either end of the feeder.

To clear the jammed paper, follow these steps:

1. Turn off the scanner using its power switch.
2. If the ADF is open, close it.
3. Press down the release lever on the left side of the feeder to slightly raise the feeder mechanism.



4 Slowly pull the jammed paper out of the feeder from the top or the bottom. Do not pull the paper too hard or it may tear, making it more difficult to remove. Then let go of the release lever.



5 If more paper is jammed in the ADF, open the access cover at the back of the feeder and carefully pull out the paper.

6 Close the access cover.

7 Push the feeder mechanism back down until it clicks into place.

Caution:

Do not push the feeder mechanism with too much force.

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Uninstalling Your Scanning Software

Uninstalling Epson Scan
Uninstalling Other Epson Software
Uninstalling the On-screen User's Guide

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

Uninstalling Epson Scan

Follow the instructions in the section for your operating system to uninstall Epson Scan.

Uninstalling Epson Scan for Windows

Note:

To uninstall programs in Windows Vista, XP, or 2000, you need to log on as a user with a Computer Administrator account (Windows Vista or XP) or as a user who belongs to the Administrators group (Windows 2000).

1. Turn off the scanner using its power switch.
2. Disconnect the scanner's USB cable from your computer.
3. Quit all running applications.
4. Do one of the following.

- **Windows Vista**: Click **> Control Panel > Uninstall a Program**

(located under Programs), or click **> Control Panel** and then double-click the **Programs and Features** icon.

- **Windows XP**: Click **Start > Control Panel > Add or Remove Programs**, or click **Start > Control Panel** and then double-click the **Add or Remove Programs** icon.
- **Windows 2000**: Click **Start > Settings > Control Panel**. Then double-click the **Add/Remove Programs** icon.

5. Select **EPSON Scan** from the list.

6. Click **Uninstall/Change**, then click **Continue** in the User Account Control window (Windows Vista), or click **Change/Remove** (Windows XP and 2000).

7. When the confirmation window appears, click **Next** or **OK**.

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

Uninstalling Epson Scan for Mac OS X

1. Turn off the scanner using its power switch.

2. Disconnect the scanner's USB cable from your computer.

3. Quit all running applications.

4. Insert the scanner software CD-ROM into your Macintosh.

5. Open the **Epson** CD-ROM desktop icon, if necessary.

6. Double-click the **Common** folder, then double-click the **EPSON Scan** folder.

Note:

You may have to scroll down to see these folders.

7. Double-click the **EPSON Scan Installer** icon.

Note:

If the Authenticate dialog box appears, enter your password or phrase and click **OK**.

8. Select **Uninstall** from the pull-down menu at the top and click **Uninstall**.

9. Follow the on-screen instructions to uninstall Epson Scan.

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Uninstalling Other Epson Software

Follow the instructions in the section for your operating system.

Uninstalling Other Epson Software for Windows

Note:

To uninstall programs in Windows Vista, XP, or 2000, you need to log on as a user with a Computer Administrator account (Windows Vista or XP) or as a user who belongs to the Administrators group (Windows 2000).

1. Quit all running applications.

2. Do one of the following.

   - **Windows Vista**: Click **> Control Panel > Uninstall a Program** (located under Programs), or click **> Control Panel** and then double-click the **Programs and Features** icon.
   - **Windows XP**: Click **Start > Control Panel > Add or Remove Programs**, or click **Start > Control Panel** and then double-click the **Add or Remove Programs** icon.
   - **Windows 2000**: Click **Start > Settings > Control Panel**. Then double-click the **Add/Remove Programs** icon.

3. Select **EPSON Copy Utility 3.5** from the list.

4. Click **Uninstall/Change**, then click **Continue** in the User Account Control window (Windows Vista), or click **Change/Remove** (Windows XP and 2000).

5. If a confirmation window appears, click **OK**.

6. Repeat steps 3 through 5 for each of the following programs.

   - Epson Event Manager
   - EPSON Perfection V500 Office Scanner Driver Update
   - Epson Scan PDF EXtensions

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

Uninstalling Other Epson Software 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.

1. Quit all running applications.

2. Insert the scanner software CD-ROM into your Macintosh.

3. Open the **Epson** CD-ROM desktop icon, if necessary.

4. Double-click the **Common** folder, then double-click the **Copy Utility** folder.

Note:

You may have to scroll down to see these folders.

5. Double-click the **Uninstaller** icon.

6. In the **Common** folder, double-click the **Event Manager** folder.

7 Double-click the **Installer** icon.

8 Read the software license agreement and click **Continue**, then click **Agree**.

9 Select **Uninstall** from the pull-down menu at the top and click **Uninstall**.

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Uninstalling the On-screen User's Guide

If you need to uninstall this on-screen *User's Guide*, follow the steps here for your operating system.

Uninstalling the Online User's Guide for Windows

Note:

To uninstall programs in Windows Vista, XP, or 2000, you need to log on as a user with a Computer Administrator account (Windows Vista or XP) or as a user who belongs to the Administrators group (Windows 2000).

Select or **Start > All Programs** or **Programs > EPSON > Perfection V500 User's Guide > Uninstall Perfection V500 User's Guide**.

Uninstalling the Online User's Guide for Mac OS X

Drag the following folder and icon into the Trash.

- The **pv500_e** folder in the **Applications/EPSON/Guide** folder.
- The **Perfection V500 User's Guide** icon on the desktop.

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Epson Technical Support

Internet Support
Speak to a Support Representative
Purchase Supplies and Accessories
Other Software Technical Support

Internet Support

Visit Epson's support website for solutions to common problems. You can download drivers and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

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Speak to a Support Representative

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

- Product name (Epson Perfection V500 Office)
- Product serial number (located on the back of the scanner)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer configuration
- Description of the problem

Then call:

- U.S.: (562) 276 - 4382, 6 AM to 6 PM, Pacific Time, Monday through Friday.
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday.

Toll or long distance charges may apply. Days and hours of support are subject to change without notice.

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Purchase Supplies and Accessories

You can purchase genuine Epson 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).

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Other Software Technical Support

Epson Scan

See Epson Technical Support.

ABBYY FineReader

(510) 226-6717, www.abbyyusa.com, support@abbyyusa.com

Adobe Photoshop Elements

(800) 642-3623, www.adobe.com/support

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System Requirements

Windows System Requirements
Macintosh System Requirements

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

Windows System Requirements

System	Microsoft Windows Vista, XP, XP Professional x64 Edition, or 2000 Professional (Operating systems upgraded from Windows Millennium Edition, 98, or 95 are not supported by the software.) USB 2.0 Host Driver by Microsoft must be used if you are connecting the scanner to a USB 2.0 port on the computer.
Interface	USB port 1.1 or later (Type A) built into the main board
Display	SVGA or higher resolution monitor 800 × 600, 24-bit (Full Color) screen resolution or higher (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.)

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Macintosh System Requirements

System	PowerPC or Intel processor-based Macintosh computers running Mac OS X 10.3.9 - 10.5.x. Fast User Switching on Mac OS X or later is not supported.
Interface	Macintosh USB

Display	Color monitor with 800 × 600 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.

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Scanner Specifications

General
Mechanical
Electrical
Environmental
Interfaces
Standards and Approvals

Note:

Specifications are subject to change without notice.

General

Scanner type	Flatbed color
Photoelectric device	Color CCD line sensor
Effective pixels	54,400 × 74,880 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: 35mm film strip: 12 frames at a time 35mm slides: up to 4 slides at a time 6 × 12 cm medium format: 1 frame at a time
Scanning resolution	6400 dpi (main scan) 9600 dpi with Micro Step Drive (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 USB 2.0 Hi-speed port
Light source	White LED, IR LED

* 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.

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Mechanical

Dimensions	Width: 18.7 inches (475.0 mm) Depth: 10.7 inches (272.0 mm) Height: 4.4 inches (113.0 mm)
Weight	Approx. 8.8 lb (4.0 kg)

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Electrical

Note:

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

Scanner

Rated voltage	DC 24.0 V
Rated input current	1.3 A
Power consumption	16.0 W (17.5 W with ADF) Operating 7.5 W (6.5 W with ADF) Ready Mode 4.0 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 24.0 V	
Rated output current	1.3 A	

Note:

The AC adapter model varies in certain locations.

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Environmental

Temperature	Operating	50 to 95 ˚F (10 to 35 ˚C)
	Storage	–13 to 140 ˚F (–25 to 60 ˚C)
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

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Standards and Approvals

Scanner

U.S. model:

EMC	FCC Part 15 Subpart B Class B CAN/CSA-CEI/IEC CISPR 22 Class B

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

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Optional Automatic Document Feeder Specifications

General
Electrical
Environmental
Mechanical

General

Product code	B12B813391
Paper input	Face-up loading
Paper output	Face-down ejection
Paper capacity	Maximum 0.2 inch (6 mm) stack height
Paper types	Bond paper, fine-quality paper, check paper, and recycled paper

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Electrical

Rated voltage	DC 24 V, DC 5 V
Input voltage	DC 24 V to DC 26.4 V DC 5 V ±5%
Input current	24 V: 0.8 A 5 V: 0.2 A

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Environmental

Temperature	Operating	50 to 90 ˚F (10 to 32 ˚C)
	Storage	-4 to 140 ˚F (-20 to 60 ˚C)
Humidity	Operating	20 to 80%, without condensation
	Storage	10 to 85%, without condensation

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Mechanical

Dimensions	Width: 319 mm (12.6 inches) Depth: 539 mm (21.2 inches) Height: 137 mm (5.4 inches)
Weight	Approx. 2.4 kg (5.3 lb)

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