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Safety Instructions

Important Safety Instructions

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

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



Warnings

must be followed carefully to avoid bodily injury.



Cautions

must be observed to avoid damage to your equipment.

Notes

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

- ❑ Place the scanner close enough to the computer for the interface cable to reach it easily. Do not place or store the scanner 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 near an electrical outlet where the power cord can be easily unplugged.
- ❑ The power-supply cords should be placed to avoid abrasions, cuts, fraying, crimping, and kinking. Do not place objects on top of the power-supply cords and do not allow the power-supply cords to be stepped on or run over. Be particularly careful to keep all the power-supply cords straight at the ends and the points where they enter and leave the transformer.
- ❑ Use only the type of power source indicated on the scanner's label.
- ❑ When connecting this scanner 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 power cord, scanner, or options 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.
- Do not use aerosol products that contain flammable gases inside or around this product. Doing so may cause fire.
- Unplug the scanner and refer servicing to qualified service personnel under the following conditions: The power cord or plug is damaged; liquid has entered the scanner; the scanner has been dropped or the case has been damaged; the scanner does not operate normally or exhibits a distinct change in performance. (Do not adjust controls that are not covered by the operating instructions.)
- Allow spaces behind the scanner for the cables, and space above the scanner so that you can fully raise the document cover.
- If you are not going to use the scanner for a long period, be sure to unplug the power cord from the electrical outlet.
- Be careful not to trap your fingers when closing the scanner unit.
- Do not remove a memory card or turn off the scanner while the memory card light is flashing.
- The methods for using memory cards vary according to card type. Be sure to refer to the documentation packaged with your memory card for details.
- Use only memory cards compatible with the scanner. See "Inserting a memory card" on page 85.
- For Hong Kong and Singapore users:**
If damage occurs to the plug, replace the cord set or consult a qualified electrician. Replace fuses only with fuses of the correct size and rating.

Restrictions on Copying

Observe the following restrictions in order to ensure the 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.

Responsible use of copyrighted materials

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

Overview of Your Scanner Features

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. You can restore printed photos.

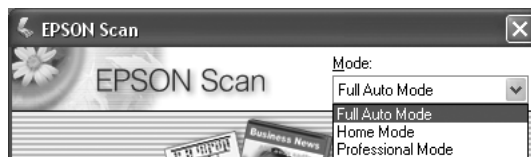


For instructions on using this feature, see "Restoring Color in Photos" on page 41.

Available Scanning Methods

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

Using EPSON Scan



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.
- ❑ **Home Mode** lets you customize a few scanning settings 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. To scan documents or photos, see "Starting a Scan With EPSON Scan" on page 15.

EPSON Scan also starts when you use a scanning option in EPSON File Manager. To scan documents or photos, see "Starting a Scan With the EPSON Creativity Suite" on page 17.

You also use EPSON Scan whenever you scan with another TWAIN-compliant program, such as Adobe Photoshop Elements. To scan documents or photos, see "Starting a Scan With Another Scanning Program" on page 19.

Using the EPSON Creativity Suite

The EPSON Creativity Suite is a group of programs that let you scan, save, manage, edit, and print your images. Using the main program, EPSON File Manager, you can scan and save your images, and then display them in an easy-to-use window.



From EPSON File Manager, you can select multiple images and print them, drag them to a document, or attach them to an e-mail message.

To scan documents or photos, see "Starting a Scan With the EPSON Creativity Suite" on page 17.

You can use these project programs in the EPSON Creativity Suite by selecting them in EPSON File Manager or by selecting them in the EPSON Creativity Suite folder and running them as standalone programs:

- Scan and Copy** to print your scanned image on a printer connected to your computer. You can enlarge and reduce, print in color or black & white, restore faded colors, enhance text, and adjust image brightness and contrast. For details, see "Using the Scanner as a Copier" on page 46.
- Copy to Fax** to scan and then fax your images, if you have already installed a fax program or driver. See the EPSON File Manager or Copy Utility Help for instructions.
- Attach to e-mail** to open your e-mail program and attach your image to an e-mail message. You can also adjust the image size before you attach it.
- Easy Photo Print** to open your images in EPSON Easy Photo Print so you can enhance, lay out, and print your photos on your printer. See EPSON File Manager or EPSON Easy Photo Print Help for instructions.

Note:

Additional project programs may be available, depending on the software you have installed on your system.

Placing Originals on the Scanner

Placing Documents or Photos

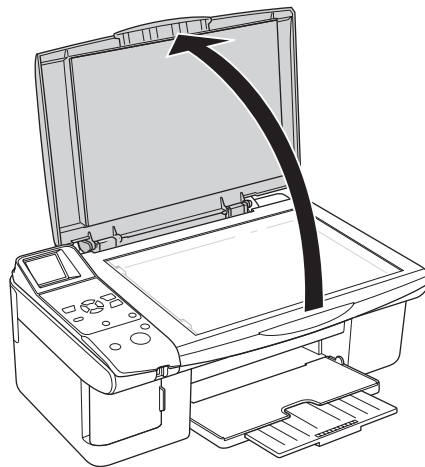
Before scanning a document, remember to respect the rights of copyright owners. Do not scan published text or images without first checking their copyright status.



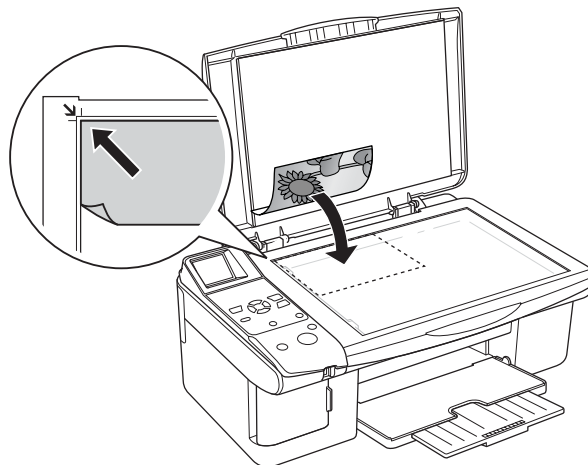
Caution:

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

1. Make sure that the feeder guard is closed, and then open the document cover.



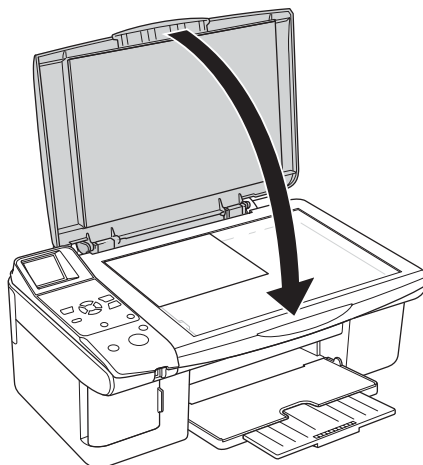
2. Place your document or photo on the document table, face down on the glass. Make sure the top of the document or photo is against the upper left corner of the document table.



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

If you are scanning large or thick documents, you can remove the document cover. See "Placing Large or Thick Documents" on page 13 for instructions.

4. Close the document cover gently so that your original does not move.



Note:

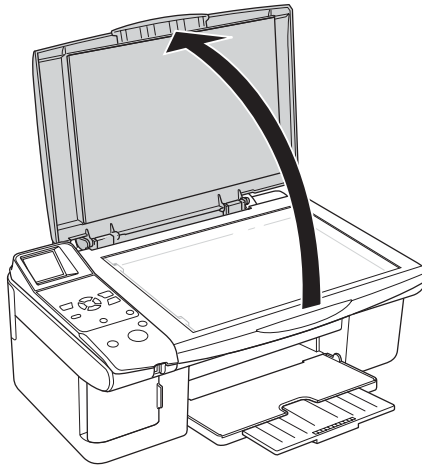
- Always keep the document table clean.
- Do not leave photos on the document table for an extended period of time as they may stick to the glass.

To scan your document or photo, see "Starting a Scan With EPSON Scan" on page 15.

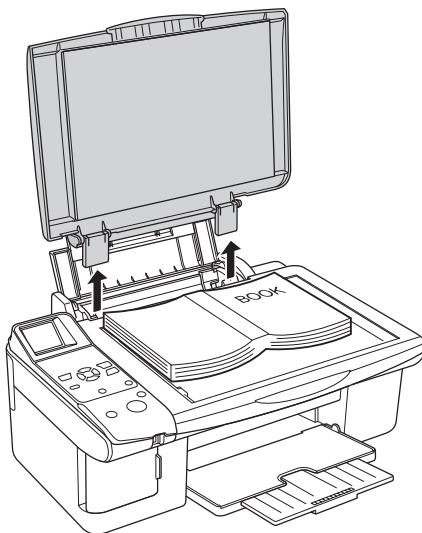
Placing Large or Thick Documents

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

1. Open the document cover.



2. Pull the document cover straight up and off the scanner.



Note:

- When scanning without the document cover, gently press down on your document to flatten it.
- When you are finished scanning, replace the document cover in the reverse order that you removed it.

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 document or photo on the scanner. See "Placing Documents or Photos" on page 12 for instructions.
2. Do one of the following to start EPSON Scan:

Windows:

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

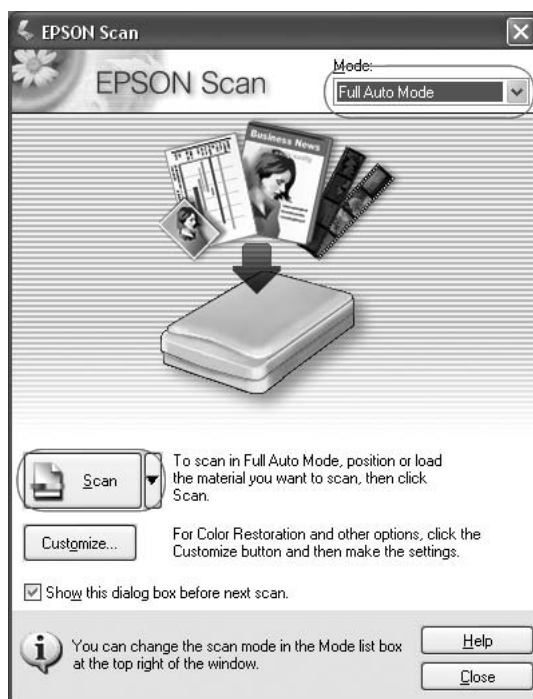
Or select **Start > All Programs** or **Programs > EPSON Scan > EPSON Scan**.

Mac OS X:

Open the **Applications** folder and click the **EPSON Scan** icon.

The EPSON Scan window appears.

3. If the Mode setting in the upper right corner of the window is set to **Full Auto Mode**, click the **Scan** button. For instructions on selecting optional settings, see "Using Full Auto Mode" on page 23.



If you are in Home or Professional Mode, see "Selecting Basic Settings" on page 26.

Note:

To change scan modes, see "Changing the Scan Mode" on page 25.

4. The File Save Settings window appears. For instructions on selecting options, see "Selecting File Save Settings" on page 21.



5. When you are finished selecting File Save Settings, click **OK**. EPSON Scan starts scanning in Full Auto Mode.

6. The scanned image is automatically saved in the specified location.

If the **Open image folder after scanning** checkbox is selected in the File Save Settings window, Windows Explorer or the Macintosh Finder automatically opens to the folder where the scanned image was saved.

For more information, see "Using Full Auto Mode" on page 23.

Starting a Scan With the EPSON Creativity Suite

When you scan with the EPSON Creativity Suite, you first scan and save the image file using EPSON File Manager. Then you use the other project options in the EPSON File Manager window to print, attach, or import your image files.

1. Place your document or photo on the scanner. See "Placing Documents or Photos" on page 12 for instructions.
2. Do one of the following to start EPSON File Manager:

Windows:

Double-click the **EPSON File Manager** icon on your desktop.

Or, select **Start > Programs** or **All Programs > EPSON Creativity Suite > EPSON File Manager**.

Mac OS X:

Double-click the **EPSON File Manager for X** icon on your desktop.

Or, open the **Applications > EPSON > Creativity Suite > File Manager** folders and double-click the **EPSON File Manager for X** icon.

You see a window asking if you want to see program instructions.

3. If you want to view the program instructions, click **Next** and follow the on-screen instructions.

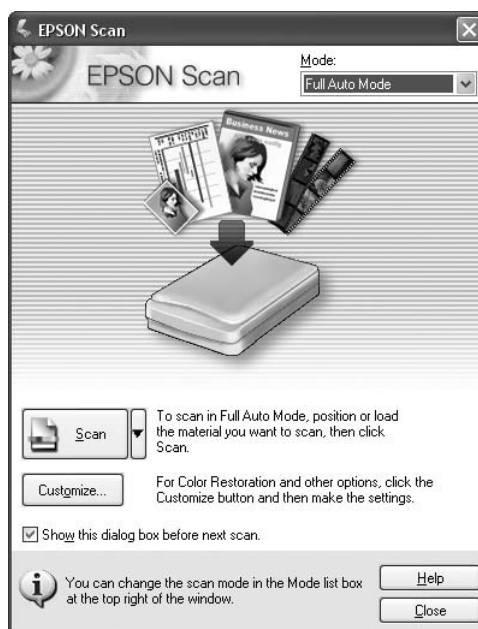
Note:

*To turn off display of the program instruction window, click the **Do Not Show Next Time** checkbox.*

You see the EPSON File Manager window:



4. Click the scanner icon in **Load Photos** in the upper left corner. You see an EPSON Scan window.
5. If the Mode box at the top right of the EPSON Scan window is set to **Full Auto Mode**, click the **Scan** button. (For more information on selecting optional settings, see "Using Full Auto Mode" on page 23.)

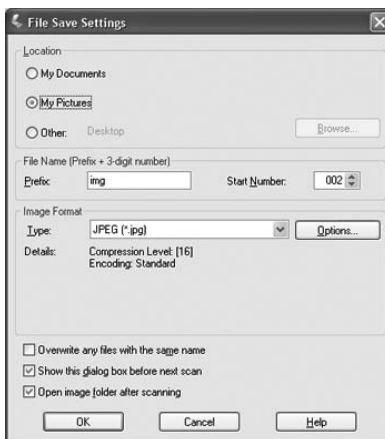


If the Mode box is set to **Home Mode** or **Professional Mode**, see "Selecting Basic Settings" on page 26 for instructions.

Note:

If you want to change the scanning mode, see "Changing the Scan Mode" on page 25.

6. The File Save Settings window appears. For instructions on selecting options, see "Selecting File Save Settings" on page 21.



7. When you are finished selecting File Save Settings, click **OK**. Your image is scanned, saved in the specified format and location, and displayed as a thumbnail in the EPSON File Manager window. See "Finishing the Scan" on page 39 for details.

Starting a Scan With Another Scanning Program

You can use any TWAIN-compliant scanning program, such as Adobe Photoshop Elements or ArcSoft PhotoImpression, 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.

1. Place your document or photo on the scanner. See "Placing Documents or Photos" on page 12 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 **Start > All Programs** or **Programs > program folder > program icon**.

Mac OS X:

Open the **Applications** folder, select the *program* folder, and click the *program* icon.

3. Do one of the following:

Photoshop Elements and other programs:

Open the **File** menu and select **Import** or **Acquire**.

PhotoImpression:

Open the **File** menu and select **Get Photo**, then select **Camera/Scanner**.

4. Select your scanner.

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.

Note for Windows XP users:

Do not choose a **WIA** option for your scanner from the *Import or Acquire* list; your scanner will not work correctly.

EPSON Scan starts automatically. For instructions on using it, see "Selecting EPSON Scan Settings" on page 20.

Selecting EPSON Scan Settings

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 by clicking the **Customize** button.

See "Using Full Auto Mode" on page 23 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 before scanning them. You can size the image as you scan, adjust the scan area, and adjust many image settings, including color restoration.

See "Changing the Scan Mode" on page 25 for instructions on switching to Home Mode.

See "Selecting Basic Settings" on page 26 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.

See "Changing the Scan Mode" on page 25 for instructions on switching to Professional Mode.

See "Selecting Basic Settings" on page 26 for scanning steps.

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. In the File Save Settings window, specify the location in which you want to save your scanned image. Click the **My Documents** or **My Pictures** buttons (Windows), or the **Documents** or **Pictures** button (Mac OS X).

If you want to select another folder, click **Other**, then click **Browse** (Windows) or **Choose** (Mac OS X) and select the folder.



2. 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:
\\, /, :, ., *, ?, ", <, >, |
- In Mac OS X, you cannot use a colon (:) in the prefix.

3. Select a file format as described in the following table. Depending on the format, the **Options** button may be available for selecting 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 and prepare images in this format.
JPEG (*.JPG)	A compressed file format in which the compression level can be selected. The JPEG format lets you highly compress image data. However, the higher the compression, the lower the image quality. Any lost image quality data cannot be restored and the quality deteriorates each time the data is saved. The TIFF format is recommended when modification and retouching are required.
Multi-TIFF (*.TIF)	A TIFF format where multiple pages are saved to the same file. You can also edit the scanned images before saving them. See EPSON Scan Help for details. To open Multi-TIFF files, you need a program that supports it.
PDF (*.PDF)	A document format that can be read on both Windows and Macintosh systems (platform independent). To use PDF documents, 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 saving them. See "Scanning to a PDF File" on page 48 for details.
PICT (*.PCT) (Macintosh only)	A standard image file format for Macintosh. Most Macintosh programs, including word processing programs, can read and prepare images in this format.
PRINT Image Matching II JPEG (*.JPG) or TIFF (*.TIF)	A file format that includes PRINT Image Matching II data for enhanced quality and a wider color range. PRINT Image Matching II compatible printers can then print using this data for brilliant, true-to-life results. (PRINT Image Matching data does not affect the way the image displays on a 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.

4. 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. If you deselect it, you must click the arrow to the right of the **Scan** button and select **File Save Settings** to open the window.

Open image folder after scanning

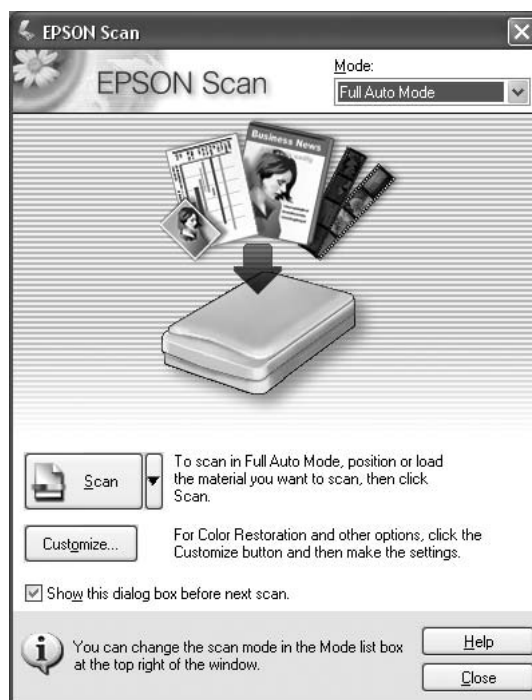
Select this option if you want EPSON File Manager, Windows Explorer, or the Macintosh Finder to automatically open the folder where your scanned image is saved when EPSON Scan finishes scanning.

5. Click **OK**. EPSON Scan starts scanning.

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

Using Full Auto Mode

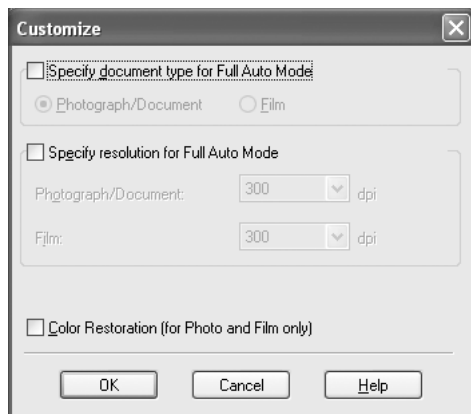
When you start EPSON Scan for the first time, it runs in Full Auto Mode and displays the EPSON Scan standby window:



Note:

- ❑ *If you want to change the scan mode, see "Changing the Scan Mode" on page 25.*
- ❑ *If you have a problem scanning your photo or document in Full Auto Mode, try scanning it in Home or Professional Mode instead.*

1. If you want to select a custom resolution or restore faded colors in your image, click the **Customize** button. You see the Customize window:



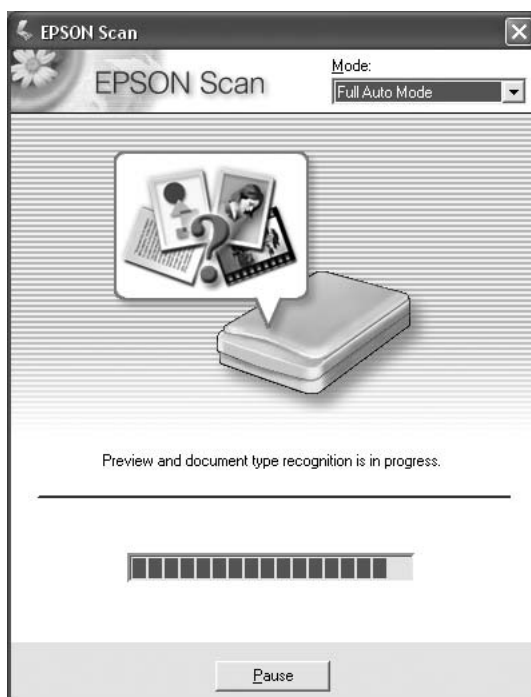
Select your settings and click **OK**. (For details on selecting settings, click the **Help** button.)

2. Click the **Scan** button.
3. The File Save Settings window appears. For instructions on selecting options, see "Selecting File Save Settings" on page 21.



4. When you are finished selecting File Save Settings, click **OK**. EPSON Scan starts scanning in Full Auto Mode.

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



Note:

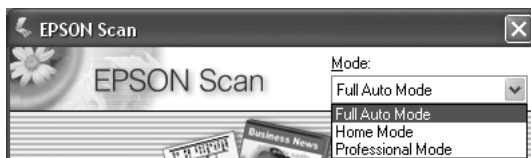
If you need to change any settings, click the **Pause** button. You return to the EPSON Scan standby window.

If you need to cancel scanning, click the **Cancel** button when it appears.

5. 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" on page 39 for details.

Changing the Scan Mode

To change the scan mode, click the arrow in the Mode box at the top right 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.

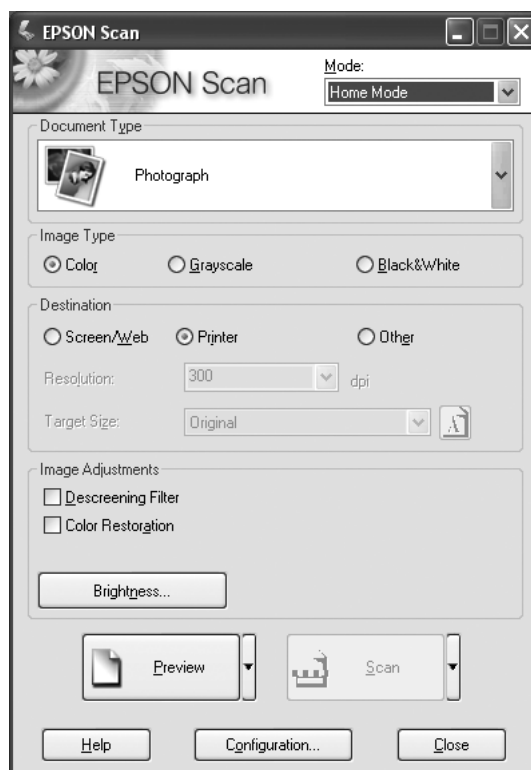
For instructions on scanning using these modes, see:

- ❑ **Full Auto Mode:** "Using Full Auto Mode" on page 23.
- ❑ **Home or Professional Mode:** "Selecting Basic Settings" on page 26.

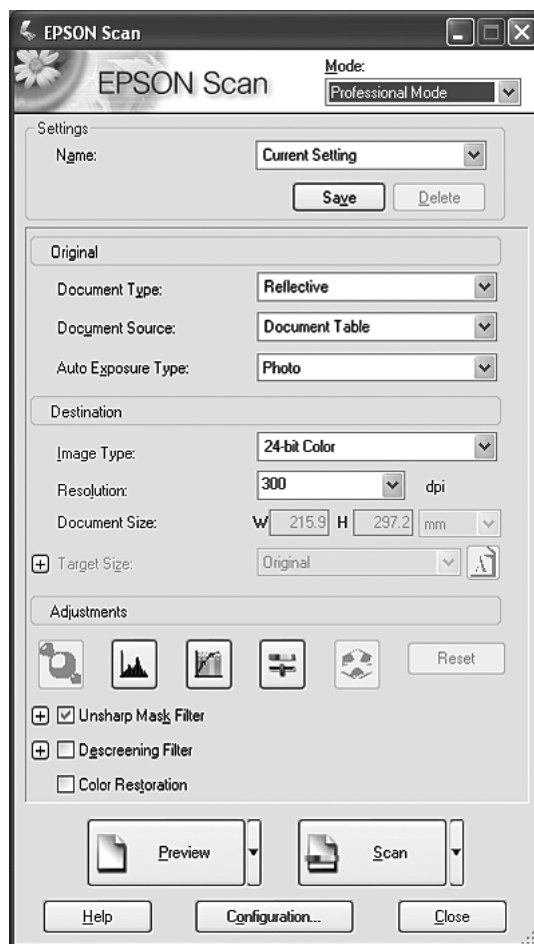
Selecting Basic Settings

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 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 so it can select the correct default resolution (scan quality) for you.

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 select the colors in the original.

Professional mode:

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:

Click the button for the way you plan to use the scanned image in the Destination box:

- 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:

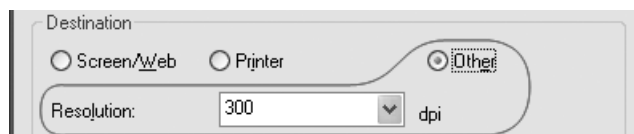
Click the arrow to open the Image Type list and select the detailed image type you are scanning:

Image Type setting	Type of image you are scanning
24-bit Color	Color photo
Color Smoothing	Color graphics, such as a chart or graph
8-bit Grayscale	Black-and-white photo with just a few shades of gray
Black & White	Document with black text and/or line art

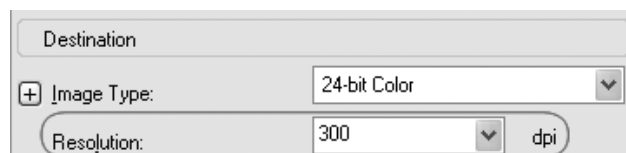
3. EPSON Scan selects a default resolution setting based on the original and destination settings you select. See "Selecting the Scan Resolution" on page 28 to continue scanning.

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 the images, and if so, whether you will enlarge them before or after you scan. 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 original and destination settings.
- ❑ **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 original and destination settings.
- ❑ **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 by 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" on page 29 to continue scanning.

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:

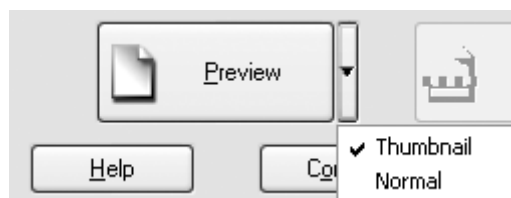
- ❑ **Normal preview** displays your previewed images in their entirety. You must select the scan area and make any image quality adjustments manually. **Normal** is the default preview type in Professional Mode, but you can also select it in Home Mode, if available.
- ❑ **Thumbnail preview** displays your previewed images as thumbnails. EPSON Scan automatically locates the edges of your scan area and applies automatic exposure settings to the images. **Thumbnail** 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, Normal preview may be automatically selected and you will not be able to change to Thumbnail preview.

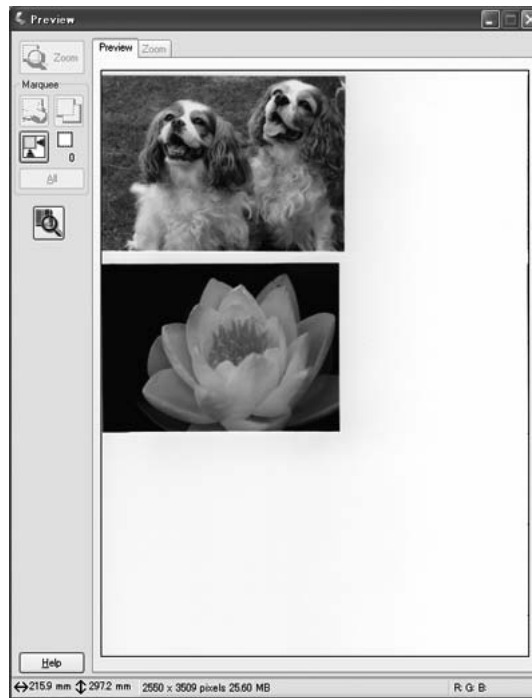
Follow these steps to preview your image(s) in Home or Professional Mode:

1. Click the **Preview** button toward the bottom of the EPSON Scan window. If you want to check or change the preview type, click the arrow next to 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



Note:

If the edge of your document or photo is not scanned, move it away from the edge of the document table slightly.

2. 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 click the **Full Size** tab near the top of the Preview window.
 - To rotate an image or flip it horizontally (like a mirror image), click its thumbnail and 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)" on page 33 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" on page 34. If you want to apply the adjustments you have made to all your images, click the **All** button.

3. 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)" on page 33 for instructions.

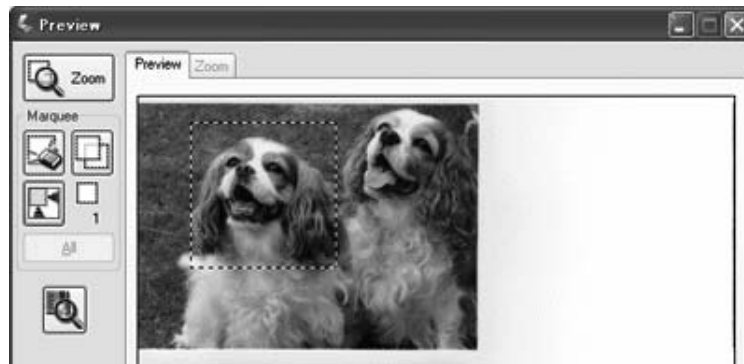
Note:

If you are going to scan at a different size than your original, you must first select your Target Size and automatically create a marquee that is proportioned to that size. See "Selecting the Scan Size" on page 36 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 rescans 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" on page 34.
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" on page 36 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.

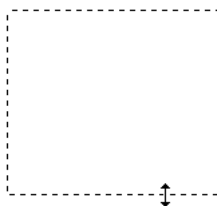


3. Do one of the following to adjust the marquee:

- 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:

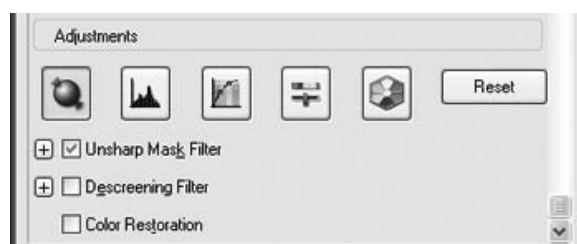
To restrict movement of the marquee to vertical or horizontal only, hold down the **Shift** key as you move the marquee. To restrict sizing of the marquee to the current proportions, hold down the **Shift** key as you resize the marquee.

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.

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 also 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" on page 36) or go ahead and scan (see "Finishing the Scan" on page 39).

Setting	Available mode(s) and description
Color Restoration	Home and Professional: Restores the colors in faded photos automatically.
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: Click the  Auto Exposure button. To turn it on continuously, click the Configuration button, click the Color tab, and select Continuous auto exposure. You can adjust the level of exposure adjustment using the slider.
Unsharp Mask Filter	Home: Automatically applied. Professional: Turn on to make the edges of image areas clearer for an overall sharper image. The level of sharpness is adjustable. Turn off to leave softer edges.
Descreening Filter	Home and Professional: 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. The results of the Descreening Filter do not appear in the preview image, only in your scanned image.
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 use the Histogram settings.
Tone Correction	Professional only: Provides a graphical interface for adjusting tone levels individually. For advanced users only. Click the  Tone Correction button to use the Tone Correction settings.

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.
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.

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.

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



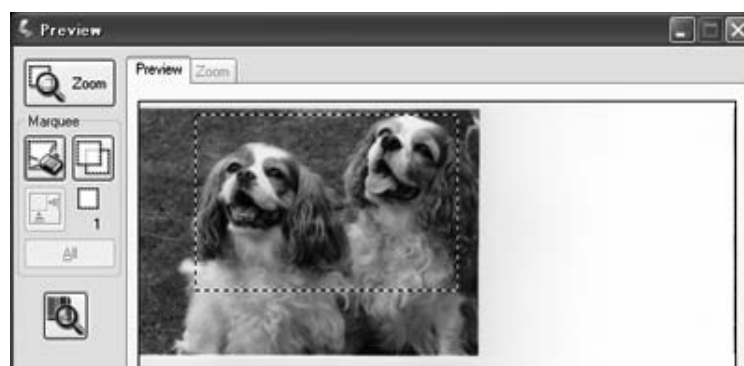
Professional Mode



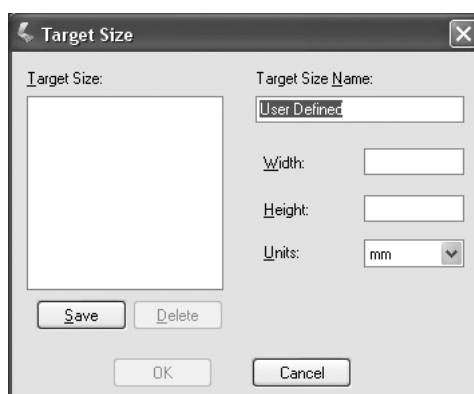
If you are going to scan your image to a particular size, you should select the Target Size setting after previewing it, but before adjusting your scan area (indicated by the marquee). This sets the scan area to the correct proportions so your image will not be cropped unexpectedly.

For instructions on previewing your image(s), see "Previewing and Adjusting the Scan Area" on page 29. 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:

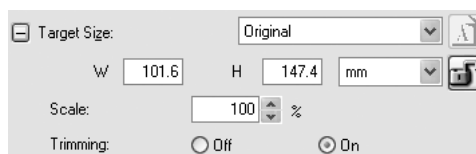



2. If you need to create a scan size that is not in the Target Size list, you can create a custom size. Click the arrow in the list and select **Customize**. You see the Target Size window:




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)" on page 33. 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). See "Finishing the Scan" on page 39 for instructions.

Finishing the Scan

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

- ❑ If you started your scan by running EPSON Scan as a standalone program, you see the File Save Settings window. This lets you select the name and location of your saved scan files. See "Selecting File Save Settings" on page 21 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. Click **Close** to close the EPSON Scan window and view your image(s) in the program.
- ❑ If you started your scan from EPSON File Manager, you see thumbnails of your scanned images in the EPSON File Manager window.



Note:

If you do not see your scanned images, select the folder in which you saved them on the left side of the EPSON File Manager window.

If you want to use your scanned images in one of the EPSON Creativity Suite project programs, click the checkbox beneath each image thumbnail. The images are displayed in the **My Selection** box on the bottom of the EPSON File Manager window.

Then select one of these project icons at the top of the window:

Project icon	Instructions
Scan and Copy	See "Using the Scanner as a Copier" on page 46.
Copy to Fax	See the EPSON File Manager or Copy Utility Help for instructions.
Attach to e-mail	In the Send File Via E-mail window, select the e-mail program and the photo size. Then click OK . Your e-mail program is opened and any scanned images you selected are attached to a new e-mail message.

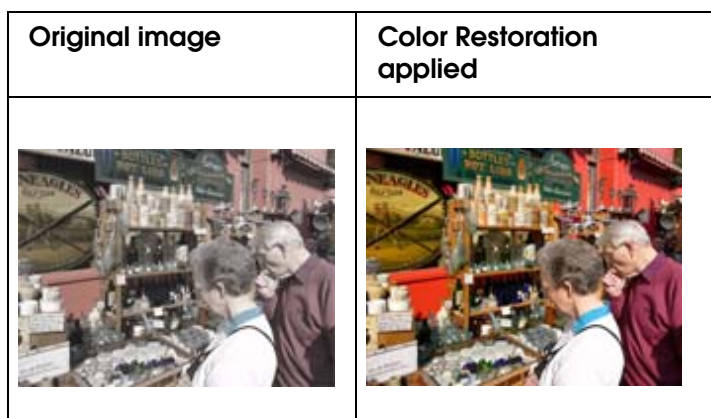
Easy Photo Print	See EPSON Easy Photo Print Help for instructions.
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Note:

*Once you have saved a scanned image, you can start EPSON File Manager by dragging the image file or an image folder to the **EPSON File Manager** icon on your desktop.*

Restoring Color in Photos

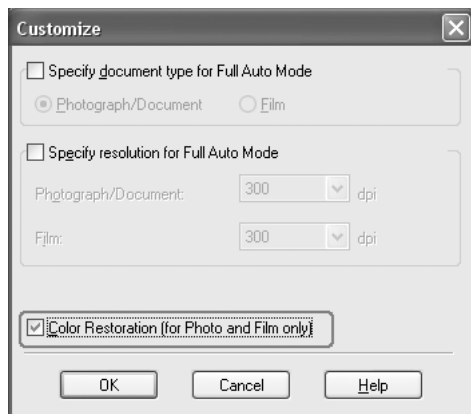
Using the **Color Restoration** feature in EPSON Scan, you can transform old, faded, or badly-exposed photos into ones with true-to-life color and sharpness. You can restore printed photos automatically as you scan them.



Follow these steps to restore colors using EPSON Scan:

1. Place your original photo on the scanner. See "Placing Documents or Photos" on page 12 for instructions:
2. Start EPSON Scan. See one of these sections for instructions:
 - "Starting a Scan With EPSON Scan" on page 15
 - "Starting a Scan With the EPSON Creativity Suite" on page 17
 - "Starting a Scan With Another Scanning Program" on page 19
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.

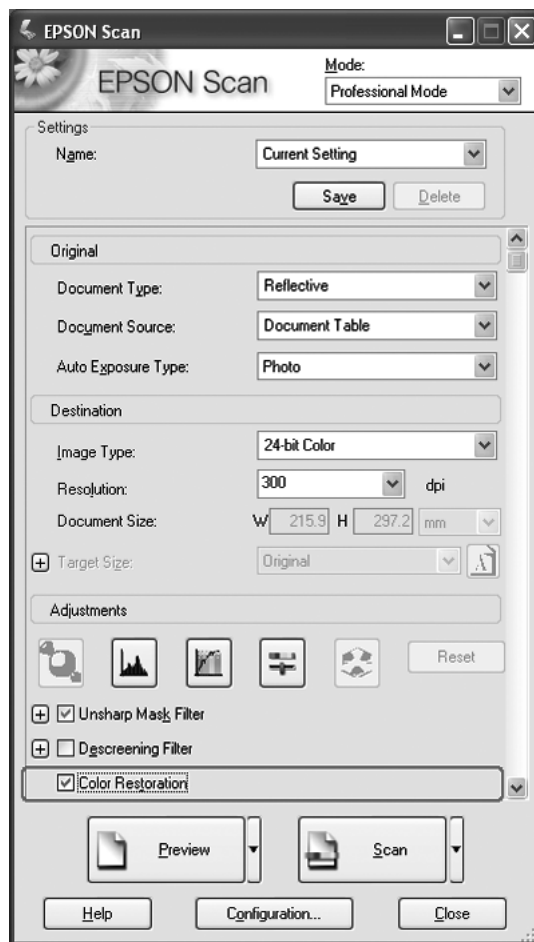
- ❑ **Full Auto Mode:** click the **Customize** button, then click the **Color Restoration** checkbox and click **OK**. Continue with step 9.



Note:

- ❑ *For details on using Full Auto Mode when scanning photos, see "Using Full Auto Mode" on page 23.*
 - ❑ *To change the scan mode when scanning photos, see "Changing the Scan Mode" on page 25.*
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 "Selecting Basic Settings" on page 26.
 5. Click the **Preview** button to preview your image(s), then select your scan area. See "Previewing and Adjusting the Scan Area" on page 29.
 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.




7. Make any other necessary image adjustments. See "Adjusting the Color and Other Image Settings" on page 34.
8. Size your image as necessary. See "Selecting the Scan Size" on page 36.
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 "Finishing the Scan" on page 39.

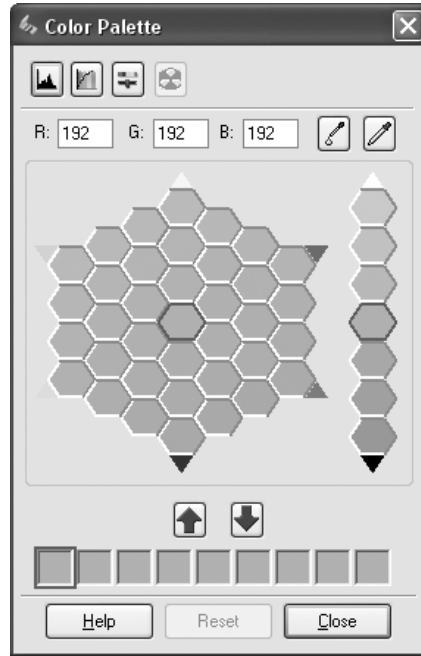
Using the Color Palette Function (Professional Mode Only)


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.

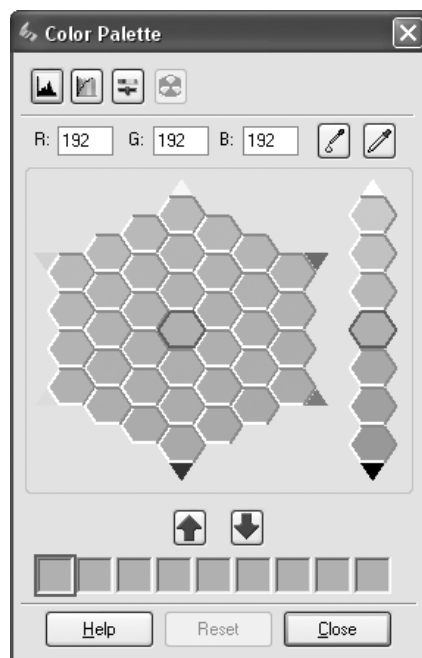
- When you are finished adjusting the color, click the **Close** button to return to the EPSON Scan window.

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

Applying a Color to an Image

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


The Color Palette window appears:




- 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.

- Click the  Color Applicator button. Your cursor changes to a droplet.
- In the Preview window, click on the color in your image that needs adjustment. The color change is reflected in your image.
- 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.

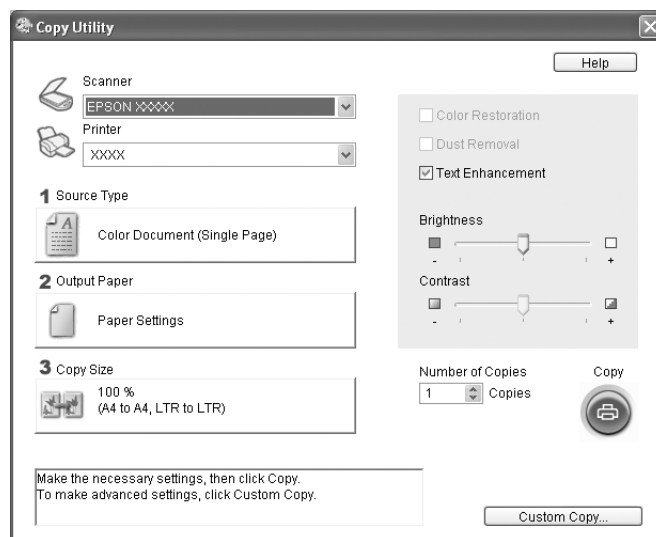
For further details on using the Color Palette feature, click the **Help** button.

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, enhance text, and adjust image brightness and contrast as you copy.

1. Place your original document or photo on the scanner. See "Placing Documents or Photos" on page 12.
2. Start the EPSON Copy Utility in one of these ways:
 - Start EPSON File Manager (see "Starting a Scan With the EPSON Creativity Suite" on page 17). Then click the **Scan and Copy** icon at the top of the window.
 - Windows:**
Click **Start > Programs** or **All Programs > EPSON Creativity Suite > Copy Utility > EPSON Copy Utility**.
 - Mac OS X:**
Open the **Applications > EPSON > Creativity Suite > Copy Utility** folders and double-click the **EPSON Copy Utility** icon.

You see the Copy Utility window:



3. Select your scanner from the Scanner list at the top of the window.
4. Select your printer from the Printer list.
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.

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**.)
9. 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.)
10. 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**.)
11. Click the arrow in the **Number of Copies** box to select the number of copies you want, if necessary.
12. When you are ready to scan and print, click the **Copy** button.

Note:

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

Scanning to a PDF File

You can scan multiple pages of a document on the document table and save them as one PDF file on your computer. EPSON Scan displays an editing page so you can view the pages as you scan them and reorder, rotate, or delete them as necessary.

1. Place the first page of your original document on the document table. See "Placing Documents or Photos" on page 12 for instructions.
2. Start EPSON Scan. See one of these sections for instructions:
 - "Starting a Scan With EPSON Scan" on page 15
 - "Starting a Scan With the EPSON Creativity Suite" on page 17
 - "Starting a Scan With Another Scanning Program" on page 19

You see an EPSON Scan window.

3. If the Mode box at the top right of the EPSON Scan window is set to **Full Auto Mode**, click the **Scan** button.



If you are in Home Mode or Professional Mode, see "Selecting Basic Settings" on page 26 for instructions.

Note:

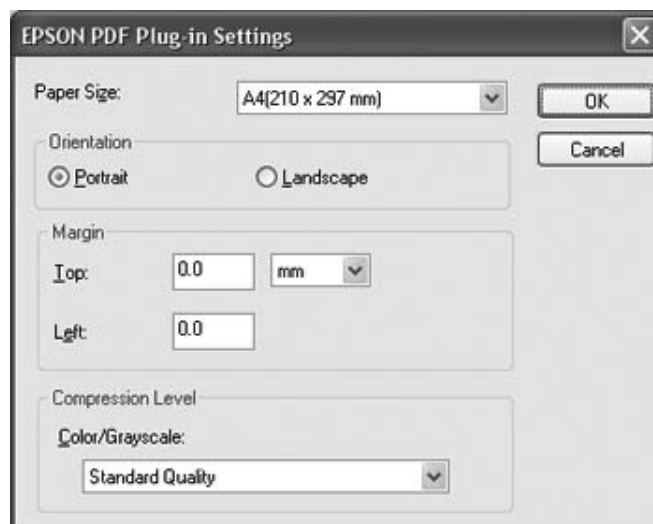
If you want to change the scan mode, see "Changing the Scan Mode" on page 25.

4. The File Save Settings window appears:



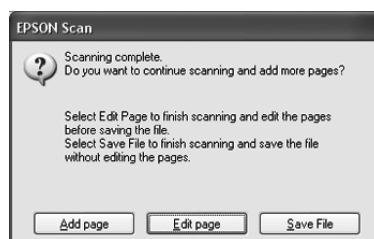
Select **PDF** as the file type setting. The current Paper Size, Orientation, Margin, and Compression setting are displayed below it.

5. 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 and click **OK**. You return to the File Save Settings window.

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

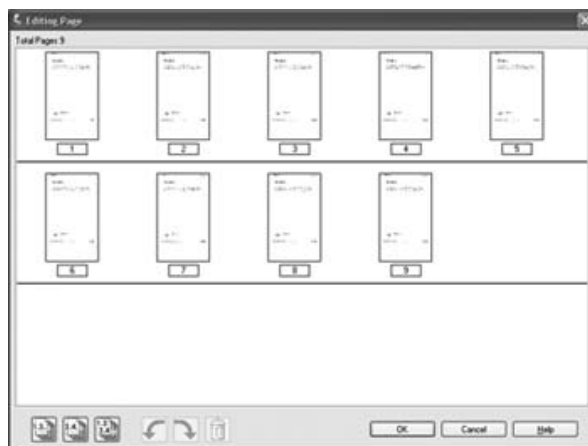


7. If you have finished scanning your document and want to view thumbnail images of the scanned pages, click **Edit page** and go to step 8.



If you need to place more pages for scanning, click **Add page**. Then place your originals and click **Scan**. When you are finished, click **Edit page** and go to step 8.







If you have finished scanning and want to save the file without editing the pages, click **Save File** and go to step 10.

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




If you want to include all the document pages in your PDF file as they currently look, go to step 9.

If you want to include only some of the pages, click the  odd pages or  even pages icons, or click the individual pages you want to include.

If you want to rotate or delete 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 or the  delete icon to delete them.

Note:

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

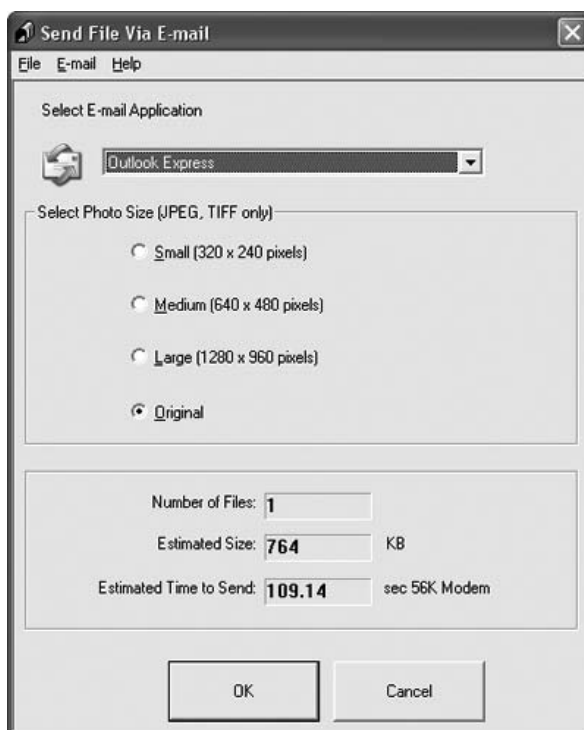
9. When you have finished editing your document pages, click **OK**. Your document is saved in a PDF file in the location you selected.
10. Click **Close** to exit EPSON Scan.

Scanning to an E-mail

You can automatically attach scanned image file(s) to an e-mail message by using Attach to e-mail function in EPSON File Manager.

1. Place your original document or photo on the scanner. See "Placing Documents or Photos" on page 12.

2. Start EPSON File Manager (see "Starting a Scan With the EPSON Creativity Suite" on page 17). Then click the **Attach to e-mail** icon at the top of the window. 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 (For DX6000 Series)

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 that came with your scanner.

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" on page 12.
2. Do one of the following to start ABBYY FineReader:

Windows: Select **Start > Programs** or **All 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.
 - In Full Auto Mode, 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" on page 29. 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**, **24-bit Color**, or **48-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" on page 29. Then click **Scan**. Your document is scanned, processed into editable text, and opened in the FineReader window.

Note:

*In Home or Professional Mode, if the characters in your text are not recognized very well, you can improve recognition by adjusting the **Threshold** setting. See "Adjusting the Color and Other Image Settings" on page 34 for instructions.*

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

Replacing the Scanner Lamp

The luminosity of the scanner lamp declines over time. If the lamp breaks or becomes too dim to operate normally, the scanner stops working. When this happens, the lamp assembly must be replaced. For details, contact your dealer.



Caution:


Never open the scanner case. If you think repairs or adjustments are necessary, consult your dealer.

Reading the LCD Messages

You can diagnose and solve most problems by checking the messages on the LCD screen. See the booklet for details.

Scanner Problems

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

- The scanner is turned on by pressing its  On button.
- The power cord is securely plugged into an 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 On light turns green to indicate that the scanner is ready to scan.
- The scanner may not work properly when connected to the computer through more than one 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" on page 64 for instructions on uninstalling and reinstalling it.
- In Mac OS X Classic mode, the scanner may not work properly. Use the Mac OS X interface instead.

The Scanner is Not Recognized by Your System

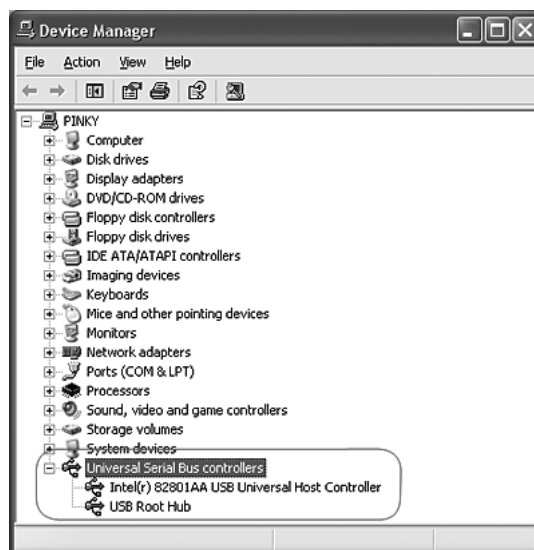
First check your connection to the scanner and computer:

- Make sure your scanner's power cord is securely connected to the scanner and a working electrical outlet, and the scanner's ⏻ On light is turned on.
- Make sure the interface cable is securely connected to the scanner and your computer, and that the cable is not damaged or crimped.
- 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" on page 78 for details.
- If Windows still has problems recognizing your scanner, make sure your computer supports USB. See "Checking For Windows USB Support" on page 57 for instructions.

Checking For Windows USB Support

1. Right-click the **My Computer** icon and click **Properties**. (On Windows XP, click **Start**, then right-click **My Computer** and click **Properties**.)
2. Do one of the following:
 - Windows XP or 2000:** Click the **Hardware** tab, then click the **Device Manager** button.
 - Windows Me or 98 SE:** Click the **Device Manager** tab.

3. Scroll down and 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 your dealer or a qualified servicer for assistance.

You Cannot Scan Multiple Images at One Time

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

Scanning Software Problems

Note:

Some EPSON Scan settings may be unavailable or grayed out based on your scanner's capabilities or the currently selected settings.

You Cannot Start EPSON Scan

- Make sure the scanner's \odot On light 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" on page 64 for instructions on uninstalling and reinstalling it.
- ❑ Make sure that EPSON Scan is selected in your scanning program. See "Starting a Scan With Another Scanning Program" on page 19 for instructions.
- ❑ In the Windows Device Manager, make sure your scanner's name appears under **Imaging devices** without a question (?) or an exclamation (!) mark. If the scanner appears with one of these marks or as an **Unknown device**, uninstall EPSON Scan as described in "Uninstalling EPSON Scan" on page 64. Then reinstall it by following the instructions in your *Start Here* sheet.

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 XP and Me:

Double-click the **Scanners and Cameras** icon in Control Panel. Delete your scanner's icon and reinstall EPSON Scan by following the instructions in your *Start Here* sheet.

Windows 98 SE and 2000:

Double-click the **Scanners and Cameras** icon in Control Panel. Delete your scanner from the list of installed devices and reinstall EPSON Scan following the instructions in your *Start Here* sheet.

- ❑ 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" on page 64 for instructions on uninstalling and reinstalling it.

Scanning Takes a Long Time

- ❑ Computers with USB 2.0 (high speed) ports can scan faster than those with USB 1.1 ports. If you are using a USB 2.0 port with your scanner, make sure it meets the system requirements. See "System Requirements" on page 78 for details.
- ❑ Try scanning your original at a lower **Resolution** setting to speed up scanning. See "Selecting the Scan Resolution" on page 28 for instructions.

Scan Quality Problems

The Edges of Your Document Are Not Scanned

Move the document about 2.5 mm (0.1 inches) away from the horizontal and vertical edges of the document table to avoid cropping.

You See Only a Few Dots in Your Scanned Image

- ❑ Make sure the document is placed on the scanner's document table with the side to be scanned facing down. See "Placing Documents or Photos" on page 12 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" on page 34 for instructions.

A Line Of Dots Always Appears in Your Scanned Images

The document table may be dusty or scratched. Clean the document table. See the booklet for details. If you still have the problem, contact your dealer.

Straight Lines in Your Image Come Out Crooked

Make sure the document lies perfectly straight on the document table. Align the vertical and horizontal lines with the scales at the top and side of the document table.

Your Image is Distorted or Blurred



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



Caution:

Do not place heavy objects on the document table.

- Make sure you do not move the document or scanner while scanning.
- Make sure the scanner is placed on a flat, stable surface.
- Select **Unsharp Mask Filter** in EPSON Scan's Professional Mode window. See "Adjusting the Color and Other Image Settings" on page 34 for instructions.
- Adjust the **Auto Exposure** setting in EPSON Scan's Professional Mode window. See "Adjusting the Color and Other Image Settings" on page 34 for instructions.

You can also select **Color Control** and **Continuous auto exposure** in the Configuration window, or select the **Color** tab and click the **Recommended Value** button to return the Auto Exposure setting to the default. See EPSON Scan Help for details.

- Increase the Resolution setting. See "Selecting the Scan Resolution" on page 28 for instructions.

Colors Are Patchy or Distorted at the Edges of Your Image



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

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.
- Adjust the **Auto Exposure** setting in EPSON Scan's Professional Mode window. See "Adjusting the Color and Other Image Settings" on page 34 for instructions.

You can also select **Color Control** and **Continuous auto exposure** in the Configuration window, or select the **Color** tab and click the **Recommended Value** button to return the Auto Exposure setting to the default. See EPSON Scan Help for details.

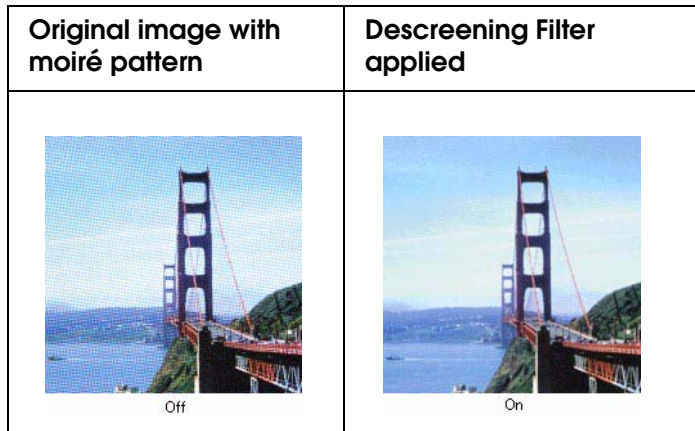
- Check the Brightness setting in EPSON Scan's Home or Professional Mode (see "Adjusting the Color and Other Image Settings" on page 34). Or adjust brightness using the Histogram in Professional Mode (see EPSON Scan Help).
- Adjust the brightness using the Histogram in EPSON Scan's Professional Mode. See EPSON Scan Help for details.
- Check the brightness and contrast settings of your computer monitor.

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

If your original is printed on thin paper, images on the back may be visible to the scanner and appear in your scanned image. Try scanning the original with a piece of black paper placed on the back of it. Also make sure the Document Type and Image Type settings are correct for your original. See "Selecting Basic Settings" on page 26 for details.

Ripple Patterns Appear in Your Scanned Image

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



- ❑ Select the **Descreening Filter** check box in EPSON Scan's Home or Professional Mode window. In Professional Mode, set the Screen Ruling of the **Descreening Filter** setting to an appropriate setting for your document and deselect the **Unsharp Mask Filter** setting. See "Adjusting the Color and Other Image Settings" on page 34 for instructions.
- ❑ Select a lower **Resolution** setting. See "Selecting the Scan Resolution" on page 28 for instructions.

Note:

You cannot remove moiré patterns when you are scanning using a resolution higher than 601 dpi.

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

- ❑ Make sure the document lies perfectly straight on the document table. Align the vertical and horizontal lines with the scales at the top and side of the document table.
- ❑ In Home Mode, select **Black&White** as the Image Type setting. In Professional Mode, select **None** for the B&W Option setting. Then try adjusting the **Threshold** setting.
- ❑ Check your OCR software manual to see if there are any settings you can adjust in your OCR software.

Scanned Colors Differ From the Original Colors

- ❑ Change the Image Type setting in EPSON Scan's Home or Professional Mode. See "Selecting Basic Settings" on page 26 for instructions. 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" on page 34 for instructions.
- ❑ Try selecting the following settings in the Configuration window: **Color Control**, **Continuous auto exposure**, and **Recommended Value** (on the **Color** tab). See EPSON Scan Help for details.
- ❑ Check the color matching and color management capabilities of your computer, display adapter, and software. Some computers can change the palette of colors on your screen. See your software and hardware manuals for details.
- ❑ Use the color management system for your computer: ICM for Windows or ColorSync for Macintosh. With Windows, add a color profile that matches your monitor to improve on-screen color matching. (Exact color matching is very difficult. Check your software and monitor documentation for information on color matching and calibration.)
- ❑ 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).

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 "Adjusting the Scan Area (Marquee)" on page 33 for instructions.
- ❑ In the Configuration window, adjust the thumbnail cropping area using the Thumbnail Cropping Area slide. See EPSON Scan Help for details.
- ❑ Switch to the Normal preview type (if available) and preview your image again. See "Previewing and Adjusting the Scan Area" on page 29 for instructions.

Uninstalling Your Scanning Software


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

Uninstalling EPSON Scan

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

Windows

Note:

- ❑ The illustrations in this section show Windows XP screens. They may be different from the screens for your operating system.
 - ❑ To uninstall programs in Windows XP or 2000, you need to log on as a user with a Computer Administrator account (Windows XP) or as a user who belongs to the Administrators group (Windows 2000).
1. Turn off the scanner using its  On button.
 2. Disconnect the scanner's USB cable from your computer.
 3. Open the Windows Control Panel and double-click the **Add or Remove Programs** icon (Windows XP) or the **Add/Remove Programs** icon (Windows Me, 98 SE, or 2000).



4. Click **EPSON Scan** in the list of currently installed programs and click **Change/Remove** (Windows XP or 2000) or **Add/Remove** (Windows Me or 98 SE).



5. When the confirmation window appears, click **Yes**.
6. Follow the on-screen instructions to uninstall EPSON Scan.

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

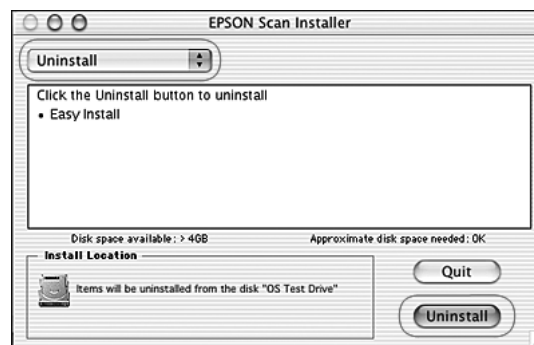
Mac OS X

1. Insert the scanner software CD-ROM in your CD-ROM or DVD drive.
2. Double-click the **EPSON** CD-ROM icon on your desktop.
3. Open the **EPSON Scan** folder.
4. Double-click the **EPSON Scan Installer** icon.

Note:

*If the Authorization window opens, click the key icon, enter the administrator's name and password, click **OK**, and click **Continue**.*

5. When you see the license agreement, click **Accept**. The Installer window appears.
6. Select **Uninstall** from the pull-down menu at the top and click the **Uninstall** button.



Uninstalling the EPSON Creativity Suite

Follow the instructions in the section for your operating system to uninstall the EPSON Creativity Suite.

Windows

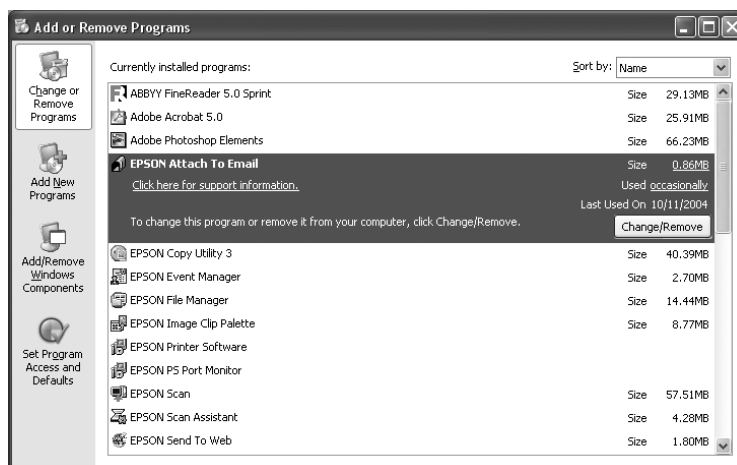
Note:

- ❑ *The illustrations in this section show Windows XP screens. They may be different from the screens for your operating system.*
- ❑ *To uninstall programs in Windows XP or 2000, you need to log on as a user with a Computer Administrator account (Windows XP) or as a user who belongs to the Administrators group (Windows 2000).*

1. Open the Windows Control Panel and double-click the **Add or Remove Programs** icon (Windows XP) or the **Add/Remove Programs** icon (Windows Me, 98 SE, or 2000).



2. Click **EPSON Attach to Email** in the list of currently installed programs and click **Change/Remove** (Windows XP or 2000) or **Add/Remove** (Windows Me or 98 SE).



3. When the confirmation window appears, click **Yes**.
4. Follow the on-screen instructions to uninstall EPSON Attach to Email.
5. Repeat steps 2 through 4 for each of the following programs in the EPSON Creativity Suite:
 - EPSON Copy Utility 3
 - EPSON Easy Photo Print
 - EPSON File Manager
 - EPSON Scan Assistant

Note:

Additional programs may be available, depending on the software you have installed on your system.

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

Mac OS X

Note:

Log onto a Computer Administrator account to uninstall software. You cannot uninstall programs if you log onto a Limited account.

1. Insert the scanner software CD-ROM in your CD-ROM or DVD drive.
2. Double-click the **EPSON** CD-ROM icon on your desktop.
3. Double-click the **EPSON Creativity Suite** folder, then open the folder for the program you want to uninstall. (If there are additional folders for specific language versions, open the folder for the language you installed.)
4. If you see an **Uninstaller** icon, double-click it. Then enter your password or pass-phrase as necessary and follow the on-screen instructions. When you are finished, go to step 9.

If you see only an **Installer** icon, double-click it. Then enter your password or pass-phrase as necessary and go to step 5.

5. If you see a license agreement screen, click **Accept**.
6. In the Installer window, select **Uninstall** from the pull-down menu in the upper left corner.
7. Click the **Uninstall** button.
8. When uninstallation is finished, click **OK**, then click **Quit**.
9. Repeat steps 2 through 8 for each program you want to uninstall in the EPSON Creativity Suite folder.
10. If you need to uninstall the Attach to Email program, double-click the **Applications** folder on your Mac OS X hard drive.
11. Open the **EPSON** folder, then open the **Creativity Suite** folder.
12. Select the **Attach to Email** folder icon and drag it to the **Trash** icon.


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.

Windows

Note:

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

1. Turn off the scanner using its  On button.
2. Disconnect the scanner's USB cable from your computer.
3. Open the Windows Control Panel and double-click the **Add or Remove Programs** icon (Windows XP) or the **Add/Remove Programs** icon (Windows Me, 98 SE, or 2000).



4. Click **(model name) User's Guide** in the list of currently installed programs and click **Change/Remove** (Windows XP or 2000) or **Add/Remove** (Windows Me or 98 SE).
5. When the confirmation window appears, click **Yes**.
6. Follow the on-screen instructions to uninstall the *User's Guide*.

Mac OS X

Drag the following folder and icon into the Trash:

- The **User's Guide** folder inside the **(model name)** folder.
- The **(model name) User's Guide** icon on the desktop.

Where To Get Help

Technical Support Web Site

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

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

If you need the latest drivers, FAQ's, manuals, or other downloadables, access the site at:

<http://www.epson.com>

Then, select the support section of your local EPSON web site.

Contacting Customer Support

Before Contacting Epson

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

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

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

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

Help for Users in Europe

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

Help for Users in Australia

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

Your Dealer

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

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

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

Epson Helpdesk

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

The Helpdesk numbers are:

Phone: 1300 361 054
Fax: (02) 8899 3789

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

Help for Users in Singapore

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

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

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

Epson HelpDesk (Phone: (65) 6586 3111)

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

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

Help for Users in Thailand

Contact for information, support, and services are:

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

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

Epson Hotline (Phone: (66)2-670-0333)

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

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

Help for Users in Vietnam

Contacts for information, support, and services are:

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

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

Help for Users in Indonesia

Contacts for information, support, and services are:

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

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

Epson Hotline

- Sales enquiries and product information
- Technical support

Phone (62) 21-572 4350

Fax (62) 21-572 4357

Epson Service Center

Jakarta	Mangga Dua Mall 3rd floor No 3A/B Jl. Arteri Mangga Dua, Jakarta Phone/Fax: (62) 21-62301104
Bandung	Lippo Center 8th floor Jl. Gatot Subroto No.2 Bandung Phone/Fax: (62) 22-7303766
Surabaya	Hitech Mall It IIB No. 12 Jl. Kusuma Bangsa 116 – 118 Surabaya Phone: (62) 31-5355035 Fax: (62)31-5477837

Yogyakarta	Hotel Natour Garuda Jl. Malioboro No. 60 Yogyakarta Phone: (62) 274-565478
Medan	Wisma HSBC 4th floor Jl. Diponegoro No. 11 Medan Phone/Fax: (62) 61-4516173
Makassar	MTC Karebosi Lt. III Kav. P7-8 Jl. Ahmad Yani No.49 Makassar Phone: (62)411-350147/411-350148

Help for Users in Hong Kong

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

Internet Home Page

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

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

Users can access our World Wide Web home page at:

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

Technical Support Hotline

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

Phone: (852) 2827-8911

Fax: (852) 2827-4383

Help for Users in Malaysia

Contacts for information, support, and services are:

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

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

Epson Trading (M) Sdn. Bhd.

Head Office.

Phone: 603-56288288

Fax: 603-56288388/399

Epson Helpdesk

- Sales enquiries and product information (Infoline)

Phone: 603-56288222

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

Phone: 603-56288333

Help for Users in India

Contacts for information, support, and services are:

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

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

Epson India Head Office - Bangalore:

Phone: 30515000

Fax: 30515005/30515078

Epson India Regional Offices:

Mumbai	Phone: 28261516-17 Fax: 28257287
Delhi	Phone: 26447201/02/03/04/07/09 Fax: 26447205
Chennai	Phone: 28203940/41 -- 28218658/59 Fax: 28272463
Kolkata	Phone: 22831589/90 Fax: 22831591
Hyderabad	Phone: 55331738/39 Fax: 55328633
Cochin	Phone: 2357638/2356652 Fax: 2357950
Pune	Phone: 24335460/90 Ext 214 Fax: 24330881
Ahmedabad	Phone: 26407176/77 Fax: 26407347

Toll Free Telephone Support

To learn more about Epson products or to avail service support, please call 1600 440011. This is a toll-free number and can be accessed (9 A.M to 9 P.M) anywhere in the country.

Help for Users in the Philippines

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

Phone: (63) 2-813-6567
Fax: (63) 2-813-6545
E-mail: epchelpdesk@epc.epson.com.ph

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

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

Epson Helpdesk (Phone: (63) 2-813-6567)

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

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

Technical Specifications

System Requirements

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

Windows System Requirements

Check your Windows system to see which type of interface you are using. Then see the appropriate section for your system below.

USB 2.0 Ports

System	Microsoft Windows XP Home Edition, Professional, or Professional x64 Edition, or 2000 Professional (Operating systems upgraded from Windows Millennium Edition, 98, and 95 are not supported by the software.) USB 2.0 Host Driver by Microsoft must be used.
Interface	USB port (Type A) built into the main board
Display	SVGA or higher resolution monitor 800 × 600, 16-bit (High 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.)

Note:

- USB 2.0 is backward-compatible with USB 1.1.*

- Contact your software manufacturer to find out if their software works in Windows XP Professional x64 Edition.*

USB 1.1 Ports

System	Microsoft Windows XP Home Edition, Professional, or Professional x64 Edition, Millennium Edition, 98 Second Edition, or 2000 Professional (Operating systems upgraded from Windows 95 are not supported by the software.) The USB interface must be used in full speed mode.
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Interface	USB port (Type A) built into the main board
Display	SVGA or higher resolution monitor 800 × 600, 16-bit (High 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.)

Note:

Contact your software manufacturer to find out if their software works in Windows XP Professional x64 Edition.

Macintosh System Requirements

Check your Macintosh system to see which type of interface you are using. Then see the appropriate section for your system below.

USB 2.0 Ports

System	PowerPC-based Macintosh computers running Mac OS X 10.2.8 or later Fast User Switching on Mac OS X 10.3 is not supported. Intel-based Macintosh computers with Rosetta
Interface	Macintosh USB
Display	Color monitor with 800 × 600 screen resolution or higher, and 32,000 or more 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:

- USB 2.0 is backward-compatible with USB 1.1.*
- 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.*

USB 1.1 Ports

System	PowerPC-based Macintosh computers running Mac OS X 10.2.8 or later Fast User Switching on Mac OS X 10.3 is not supported. Intel-based Macintosh computers with Rosetta
Interface	Macintosh USB

Display	Color monitor with 800 × 600 screen resolution or higher, and 32,000 or more 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.)
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Note:

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

Scanner Specifications

Note:

Specifications are subject to change without notice.

General

Scanner type	Flatbed color
Photoelectric device	CIS
Effective pixels	10,200 × 14,040 pixels at 1200 dpi
Document size	216 × 297 mm (8.5 × 11.7 inches) A4 or US letter size
Scanning resolution	1200 dpi (main scan) 2400 dpi with Micro Step (sub scan)
Output resolution	50 to 4800, 7200, and 9600 dpi (50 to 4800 dpi in 1 dpi increments)
Scanning speed	1200 dpi B/W: Approximately 10 msec per line 1200 dpi Color: Approximately 30 msec per line
Image data	16 bits per pixel per color internal 8 bits per pixel per color external (maximum)
Interface	One USB port
Light source	RGB Three Color LED

Memory Card Slots

Compatible memory cards	CompactFlash Memory Stick Memory Stick PRO Memory Stick Duo* Memory Stick PRO Duo* MagicGate Memory Stick MagicGate Memory Stick Duo* Microdrive SD Memory Card SDHC Memory Card MultiMediaCard miniSD card* miniSDHC card* microSD card* microSDHC card* xD-Picture Card xD Picture Card Type M xD-Picture Card Type H
Voltage Requirements	3.3 v Maximum current is 500 mA

* Adapter required.

Memory card slot compatibility:

CF Type II card slot	Compatible with CF+ and CompactFlash Specification 3.0 cards
Memory Stick/MemoryStick PRO card slot	Compatible with Memory Stick Standard version 1.42-00 or Memory Stick Standard Memory Stick PRO Format Specifications version 1.02-00 cards
SD/MMC card slot	Compatible with SD Memory Card Specifications / PART1. Physical Layer Specification Version 2.00 cards and MultiMediaCard Standard Version 4.1 cards
xD-Picture card Slot	Compatible with xD-Picture card, Card Specification Version 1.00 cards

Mechanical

Dimensions * Including the projection of LCD parts.	Width: 463 mm (18.2 inches) Depth: 354 mm (13.9 inches) Height: 196 mm (7.7 inches)
Weight * Without the ink cartridges	Approx. 6.9 kg (15.2 lb)

Electrical

Note:

Check the label on the back of the scanner for voltage information.

	100-120 V model	220-240 V model
Input voltage	AC 90 to 132 V	AC 198 to 264 V
Rated frequency	50 to 60 Hz	
Rated current	0.4 A (Max 0.7A)	0.2 A (Max 0.4A)
Power consumption	Approx. 13 W (Standalone copying) Approx. 5.0 W (Low Power Mode) Approx. 3.5 W (Sleep Mode) Approx. 0.2 W (Powered off Mode)	Approx. 13 W (Standalone copying) Approx. 5.0 W (Low Power Mode) Approx. 3.5 W (Sleep Mode) Approx. 0.3 W (Powered off Mode)

ENERGY STAR® Compliance



Environmental

Temperature	Operating	10 to 35 °C (50 to 95 °F)
	Storage	-20 to 40 °C (-4 to 104 °F)
Humidity	Operating	20 to 80%, without condensation
	Storage	5 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.

Interfaces

USB Interface

Interface type	Based on Universal Serial Bus Specifications Revision 2.0
Electrical standard	480Mbps (High Speed Device)
Connector type	One Type B port

Standards and Approvals

U.S. model:

Safety	UL60950-1 CSA C22.2 No. 60950-1
EMC	FCC Part 15 Subpart B Class B CAN/CSA- CEI/IEC CISPR 22 Class B

European model:

Low Voltage Directive 73/23/EEC	EN 60950-1
EMC Directive 89/336/EEC	EN 55022 Class B EN 55024 EN 61000-3-2 EN 61000-3-3

Australian model:

EMC	AS/NZS CISPR 22 Class B
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Using a Memory Card

Introduction

You can use the scanner's memory card slots to copy files to a computer connected to the scanner. You can also use it to copy files on your computer to your memory card.

For instructions on printing from a memory card, see the booklet that came with your scanner.

Handling Memory Cards

Memory card copying precautions

Keep the following in mind when copying files between your memory card and computer:

- Check the documentation that came with your memory card and any adapter you may be using for any handling guidelines.
- Do not eject your memory card or turn off the scanner while the memory card light is flashing or you may lose data.
- Make sure that your memory card is not write-protected. Many memory cards have a write-protect switch.
- Do not copy files to a memory card while you are printing from the memory card.
- The scanner display does not update information about your memory card after you copy files to it or delete files from it. To update the information displayed, wait until the memory card light stops flashing, then eject and reload the memory card.
- When you are using EPSON File Manager to access photos on your memory card, do not remove the memory card until after you close File Manager.

Supported memory cards

You can use the following types of memory cards with your scanner:

• CompactFlash	• SD Memory Card
• Microdrive	• SDHC Memory Card
• Memory Stick	• miniSD card*
• Memory Stick Duo*	• miniSDHC card*
• Memory Stick PRO	• microSD card*
• Memory Stick PRO Duo*	• microSDHC card*
• MagicGate Memory Stick	• xD-Picture Card
• MagicGate Memory Stick Duo*	• xD-Picture Card Type M
• MultiMediaCard	• xD-Picture Card Type H

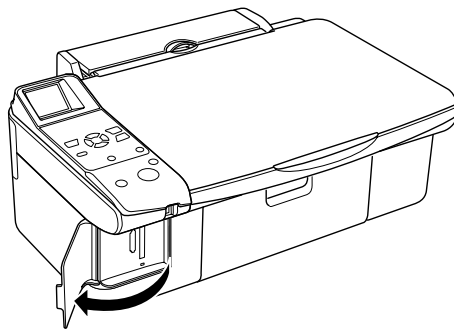
* Adapter required.

Note:

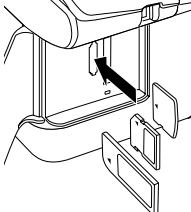
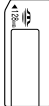






See the following for the specifications of memory cards that can be used with the scanner
 ➔ "Memory Card Slots" on page 81

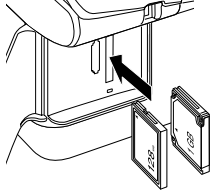


Inserting a memory card

1. Turn on the scanner.
2. Open the memory card slot cover.

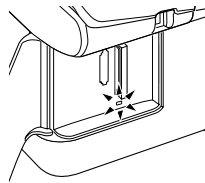


3. Make sure no cards are in any of the slots. Then insert your memory card as shown in the illustrations below.

Slot	Type of Card
	
	<p>Memory Stick Memory Stick PRO MagicGate Memory Stick</p>
	
	<p>Memory Stick Duo* Memory Stick PRO Duo* MagicGate Memory Stick Duo*</p>
	
	<p>SD Memory Card</p>
	
<p>SDHC Memory Card MultiMedia Card</p>	
	
<p>miniSD card* miniSDHC card*</p>	
	
<p>microSD card* microSDHC card*</p>	
<p>*Adapter required</p>	
	
<p>xD-Picture Card xD-Picture Card Type M xD-Picture Card Type H</p>	

Slot	Type of Card
	<div style="text-align: center;">  <p>128 MB</p> <p>Compact Flash</p> </div> <div style="text-align: center;">  <p>1 GB</p> <p>Microdrive</p> </div>

- The memory card light flashes and then stays on. Then close the memory card slot cover.



Caution:

- ❑ Load your memory card only as shown above or you may damage your scanner, memory card, or both. If you insert a card incorrectly, you see an error message on your screen. Click **Cancel**, then remove the memory card and insert it correctly.
- ❑ Load only one memory card at a time. Eject your memory card before inserting another one.
- ❑ Always close the memory card slot cover to protect your memory card from static electricity. If you touch the inserted memory card, it may cause the scanner to malfunction.
- ❑ If a digital camera is connected to the scanner, disconnect it before you insert your memory card.
- ❑ Make sure you check which direction the card should be inserted, and if the card needs an adapter make sure you attach the adapter before inserting the card. Otherwise, you may not be able to remove the card from the product.

Removing the memory card



Caution:

- On a Macintosh, always drag the memory card icon on the desktop into the trash to eject the card before you turn off the scanner or unplug the USB cable. Otherwise, you may lose data from the memory card.

1. Make sure the memory card light is not flashing.
2. Pull the memory card out of its slot.



Caution:

Do not remove a memory card when the memory card light is flashing or you may lose data from the memory card.

Copying Files Between a Memory Card and Your Computer

Copying files to your computer

1. Make sure the scanner is turned on and a memory card is inserted.
2. **Windows XP x64 and XP**
Click **Start** and select **My Computer**.

Windows Me, 98 SE, and 2000:

Double-click the **My Computer** icon on your desktop.

3. Double-click the removable disk icon, then select the folder in which your files are saved.

Note:

If you have set a volume label, it is displayed as the drive name. If you have not set the volume label, "removable disk" is displayed as the drive name on Windows XP x64 and XP.

4. Select the files you want to copy and drag them to a folder on your computer's hard drive.

Saving files to a memory card

Before inserting your memory card, make sure the write protect switch is set to allow writing to the memory card.

Note:

After copying a file to a memory card from a Macintosh computer, an older digital camera not be able to read the memory card.

1. Make sure the scanner is turned on and a memory card is inserted.
2. **Windows XP x64 and XP:**
Click **Start** and select **My Computer**.

Windows Me, 98 SE, and 2000:

Double-click the **My Computer** icon on your desktop.

3. Double-click the removable disk icon, then select the folder in which you want to save your files.

Note:


If you have set a volume label, it is displayed as the drive name. If you have not set the volume label, “removable disk” is displayed as the drive name on Windows XP x64 and XP.

4. Select the folder on your computer’s hard drive that contains the files you want to copy. Then select the files and drag them to the folder on your memory card.

Disconnecting or Turning Off the Scanner

When you finish copying files to or from a memory card in the scanner, you must carefully follow the steps in these sections before you turn off the scanner or disconnect it from your computer.

Windows XP x64 and XP

1. Double-click the  icon on the task bar.
2. Select **USB Mass Storage Device** and click **Stop**.
3. Select **USB Mass Storage Device** and click **OK**.
4. Click anywhere in the window.
5. Turn off the scanner or disconnect the USB cable.

Windows 2000

1. Make sure that both the memory card light and the On light are not flashing.
2. Turn off your computer.
3. Turn off the scanner or disconnect the USB cable.


Note:

If you turn off the scanner or disconnect the USB cable before turning off your computer, you see the message “Problem Ejecting USB Mass Storage Device.”

Windows Me and 98 SE

1. Double-click the **My Computer** icon on the desktop.
2. Right-click the **Removable Disk** icon and click **Eject**.
3. Turn off the scanner or disconnect the USB cable.

Macintosh

1. Drag the removable disk icon () on your desktop into the trash.
2. Turn off the scanner or disconnect the USB cable.