

# Epson Stylus NX510 Series Table of Contents

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# Home

Welcome to the Epson Stylus<sup>®</sup> NX510 Series *User's Guide*.



## Change the Language

You can choose English, French, Spanish, or Portuguese as the language of the LCD display screen.

1. Press **Setup**.
2. Press ◀ or ▶ to select **Maintenance**, then press **OK**.
3. Press ▼ to select **Language**, then press **OK**.
4. Press ▲ or ▼ to select your language, then press **OK**.



## Copy a Document or Photo

You can copy documents or photos in color or black-and-white. You can also make quick draft copies.

Copy Documents

Copy Photos

Restore or Crop Photos

### Note:

Copies may not be exactly the same size as your original document.

## Copy Documents

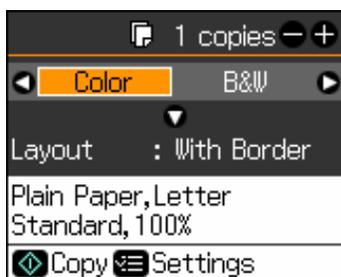
You can copy documents onto letter- or A4-size plain paper or Epson special paper (various types available) just like you would on a copy machine.

1. Load letter- or A4-size plain paper or Epson special paper in the sheet feeder.

### Note:

Load only the recommended number of sheets.

2. Place your original document on the scanner glass.
3. Press the **Copy** button.



4. To print more than 1 copy, press + or – to select the number (up to 99).
5. Press ◀ or ▶ to select **Color** or **B&W** copies.
6. Press ▼, then press ▶ to change the layout, if necessary.

Select **With Border** to leave a small margin around the image or select **Borderless** to expand the image all the way to the edge of the paper (slight cropping may occur).

### Note:

**Layout** must be set to **With Border** to select **Plain Paper**.

7. To change any of the print settings displayed on the screen, press **Menu** and select your settings.

Copy Mode Print Settings



- To adjust the copy size, select **Reduce/Enlarge** and choose either **Actual** (to select a percentage using + or –) or **Auto Fit Page** (to automatically size the image to fit your paper).
- To change the paper type, select **Paper Type** and choose the type of paper you loaded.

Paper type	Paper Type setting
Plain paper	Plain Paper
Epson Bright White Paper	
Epson Presentation Paper Matte	
Epson Premium Presentation Paper Matte	Matte
Epson Premium Photo Paper Glossy	Prem. Glossy
Epson Premium Photo Paper Semi-gloss	
Epson Ultra Premium Photo Paper Glossy	Ultra Glossy
Epson Photo Paper Glossy	Glossy

- To change the paper size, select **Paper Size** and choose the size of paper you loaded.

**Note:**

**Paper Size** options depend on the **Paper Type** setting you choose.

- If you chose Plain Paper as your Paper Type setting, you can change the copy quality. Select **Quality** and choose **Standard**, **Best**, or **Draft**.
- To adjust the darkness or lightness of the copy, select **Density** and choose a higher (darker) or lower (lighter) setting.
- To adjust the amount of image expansion when printing borderless photos, select **Expansion** and choose **Standard**, **Medium**, or **Minimum**.

**Note:**

You may see white borders on your printed photo if you use the **Minimum** setting.

[DROP DOWN END]

After you finish selecting your settings, press **OK**.

8. Press **Start** to begin copying.

To cancel copying, press **Stop/Clear Settings**.

## Copy Photos

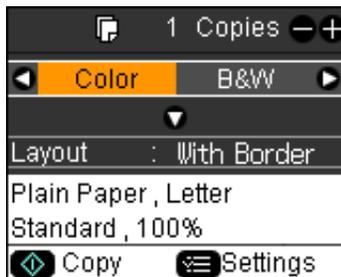
You can copy photos onto 4 × 6-inch (102 × 152 mm), 5 × 7-inch (127 × 178-mm), letter-size, or A4-size Epson special paper (various types available) for instant photo reprints.

1. Load 4 × 6-inch (102 × 152 mm), 5 × 7-inch (127 × 178-mm), letter-size, or A4-size Epson special paper in the sheet feeder.

### Note:

Load only the recommended number of sheets.

2. Place your original photo on the scanner glass.
3. Press the **Copy** button.



4. To print more than 1 copy, press + or – to select the number (up to 99).
5. Press ◀ or ▶ to select **Color** or **B&W** copies.
6. Press ▼, then press ▶ to change the layout, if necessary.

Select **With Border** to leave a small margin around the image or select **Borderless** to expand the image all the way to the edge of the paper (slight cropping may occur).

### Note:

**Layout** must be set to **With Border** to select **Plain Paper**.

7. To change any of the print settings displayed on the screen, press **Menu** and select your settings.

### Copy Mode Print Settings



- To adjust the copy size, select **Reduce/Enlarge** and choose either **Actual** (to select a percentage using + or –) or **Auto Fit Page** (to automatically size the image to fit your paper).
- To change the paper type, select **Paper Type** and choose the type of paper you loaded.

Paper type	Paper Type setting
Plain paper	Plain Paper
Epson Bright White Paper	
Epson Presentation Paper Matte	
Epson Premium Presentation Paper Matte	Matte
Epson Premium Photo Paper Glossy	Prem. Glossy
Epson Premium Photo Paper Semi-gloss	
Epson Ultra Premium Photo Paper Glossy	Ultra Glossy
Epson Photo Paper Glossy	Glossy

- To change the paper size, select **Paper Size** and choose the size of paper you loaded.

**Note:**

**Paper Size** options depend on the **Paper Type** setting you choose.

- If you chose Plain Paper as your Paper Type setting, you can change the copy quality. Select **Quality** and choose **Standard**, **Best**, or **Draft**.
- To adjust the darkness or lightness of the copy, select **Density** and choose a higher (darker) or lower (lighter) setting.
- To adjust the amount of image expansion when printing borderless photos, select **Expansion** and choose **Standard**, **Medium**, or **Minimum**.

**Note:**

You may see white borders on your printed photo if you use the **Minimum** setting.

[DROP DOWN END]

8. After you finish selecting your settings, press **OK**.
9. Press **Start** to begin copying.  
To cancel copying, press **Stop/Clear Settings**.

## Restore or Crop Photos

You can copy photos onto 4 × 6-inch (102 × 152 mm), 5 × 7-inch (127 × 178-mm), letter-size, or A4-size Epson special paper (various types available) for instant photo reprints. You can restore the colors in faded photos, convert color photos to black-and-white, and crop your photos.

### Note:

To restore photos larger than 5 × 7 inches, use the software on your computer

1. Load 4 × 6-inch (102 × 152 mm), 5 × 7-inch (127 × 178-mm), letter-, or A4-size Epson special paper in the sheet feeder.

### Note:

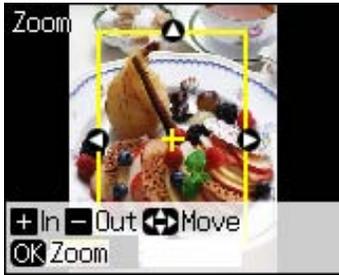
Load only the recommended number of sheets.

2. Place your original photo on the scanner glass.
3. Press the **Photo** button, then press **OK**.
4. To turn on **Color Restoration** to restore colors in faded photos as you copy, press **►**, select **On**, then press **OK**. (If your photo is not faded, do not turn on **Color Restoration**.)
5. Press **OK** to prescan your photo. You see these settings over a preview of your photo:



6. To print more than 1 copy, press + or – to select the number.
7. If you want to crop your photos and enlarge the resulting image area to fit onto your paper, press **Display/Crop**.

### Crop adjustments



- To resize the image area, press + or –.
- To move the image area, use the arrow buttons.
- To check the zoomed image, press **OK**.

[DROP DOWN END]

After you finish cropping your photos, press **OK**.

8. To change any of the print settings displayed on the screen, press **Menu** and select your settings.

Restore Mode Print Settings



- To change the paper type, select **Paper Type** and choose the type of paper you loaded.

Paper type	Paper Type setting
Epson Premium Photo Paper Glossy	Prem. Glossy
Epson Premium Photo Paper Semi-gloss	
Epson Ultra Premium Photo Paper Glossy	Ultra Glossy
Epson Photo Paper Glossy	Glossy
Epson Premium Presentation Paper Matte	Matte

- To change the paper size, select **Paper Size** and choose the size of paper you loaded.

**Note:**

**Paper Size** options depend on the **Paper Type** setting you choose.

- To change the layout, select **Layout** and choose **With Border** to leave a small margin around the image or select **Borderless** to expand the image all the way to the edge of the paper (slight cropping may occur).
- To adjust the amount of image expansion when printing borderless photos, select **Expansion** and choose **Standard, Medium, or Minimum**.

**Note:**

You may see white borders on your printed photo if you use the **Minimum** setting.

**Note:**

When you are restoring or cropping photos, the Quality setting is set to **Standard**. You cannot adjust it.

[DROP DOWN END]

After you finish selecting your settings, press **OK**.

9. Press **Start** to begin copying.

To cancel copying, press **Stop/Clear Settings**.



# Load Paper

Before you copy or print, load paper for the type of printing you will do.

Load Paper for Photos

Load Paper for Documents

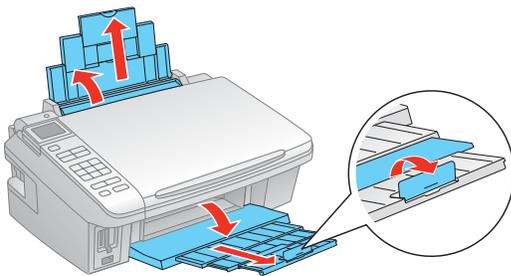
Load Envelopes

General Paper Information

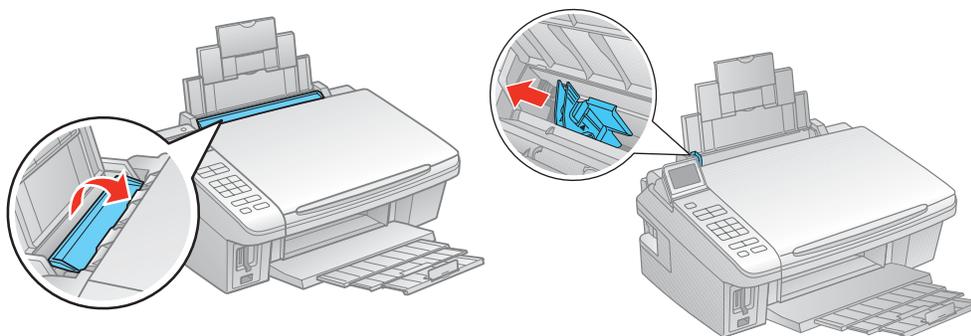
## Load Paper for Photos

You can print photos on a variety of paper types and sizes, including borderless photos.

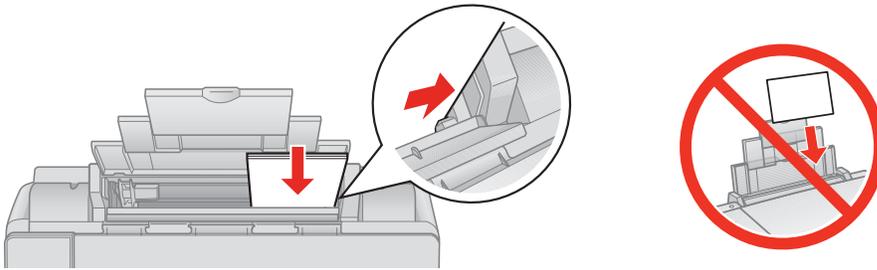
1. Open the paper support and pull up the extensions.
2. Open the output tray, pull out the extensions, and flip up the stopper.



3. Flip the feeder guard up, out of the way, then squeeze the edge guide and slide it left.



4. Insert paper, glossy or printable side up, short edge first, against the right side and beneath the tab.



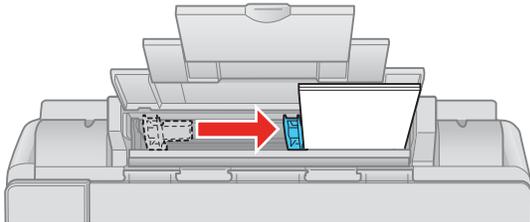
**Tip:**

Load only the recommended number of sheets.

Load paper short edge first, no matter which way your photo faces.

Check the photo paper package for any additional loading instructions.

5. Slide the edge guide to the edge of the paper, but not too tightly.



See also:

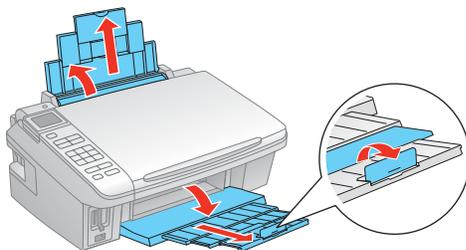
[Load Paper for Documents](#)

[Load Envelopes](#)

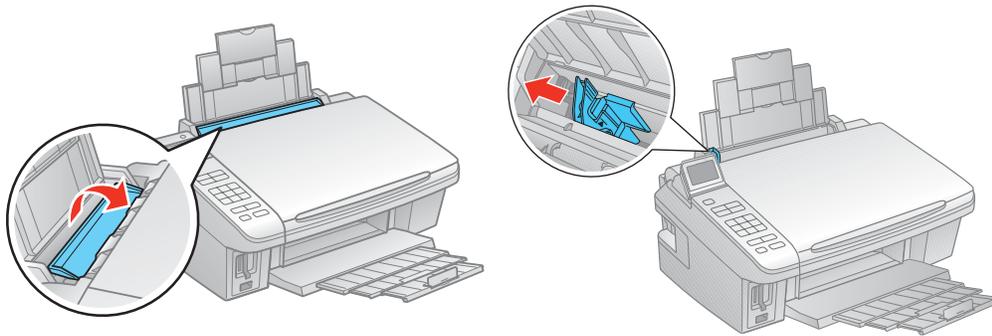
## Load Paper for Documents

You can print documents on a variety of paper types and sizes.

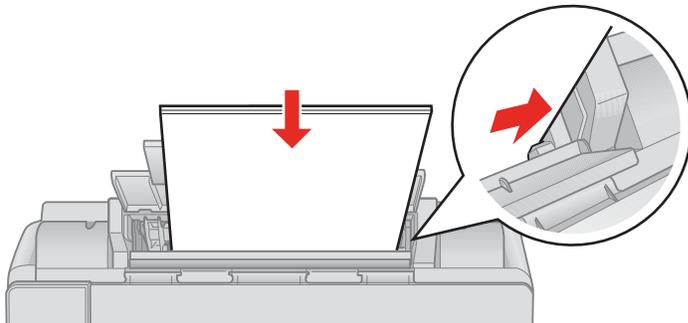
1. Open the paper support and pull up the extensions.
2. Open the output tray and pull out the extensions. Then flip up the paper stopper on the last extension, unless you're printing on legal-size paper.



3. Flip the feeder guard up, out of the way, then squeeze the edge guide and slide it left.



4. Insert paper, printable side up, against the right side and beneath the tab.



**Tip:**

Load only the recommended number of sheets.

Load paper short edge first, no matter which way your document faces.

Load letterhead or pre-printed paper top edge first.

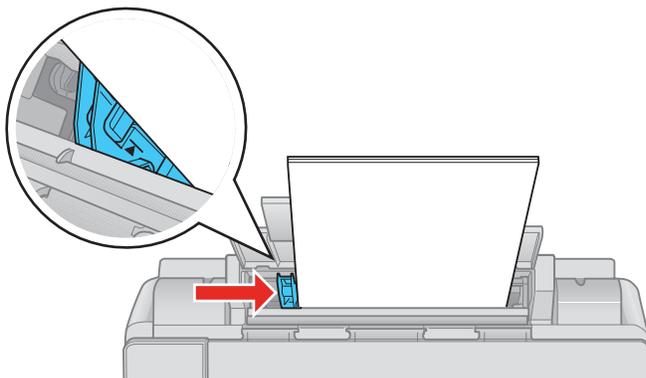
Do not load paper with holes punched in it.

Do not load transparencies.

Do not load paper above the ► arrow on the edge guide.

Check the paper package for any additional loading instructions.

5. Slide the edge guide to the edge of the paper, but not too tightly.



See also:

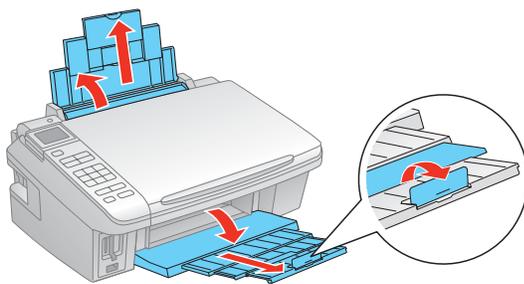
[Load Paper for Photos](#)

[Load Envelopes](#)

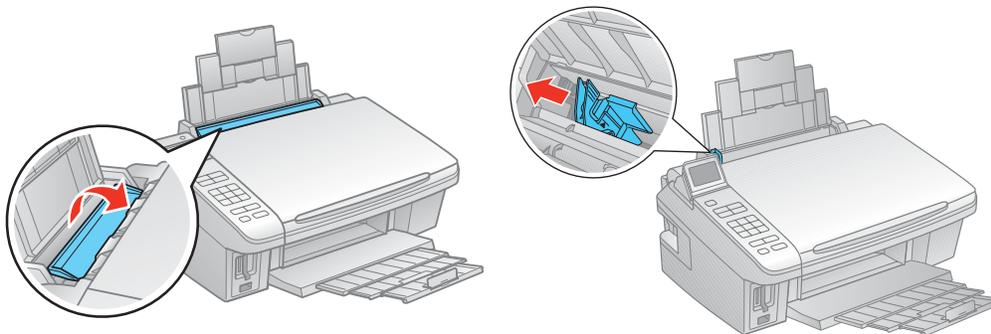
## Load Envelopes

You can print on plain paper envelopes in 4 1/8 × 9 1/2 inch (#10) (105 × 241 mm) size.

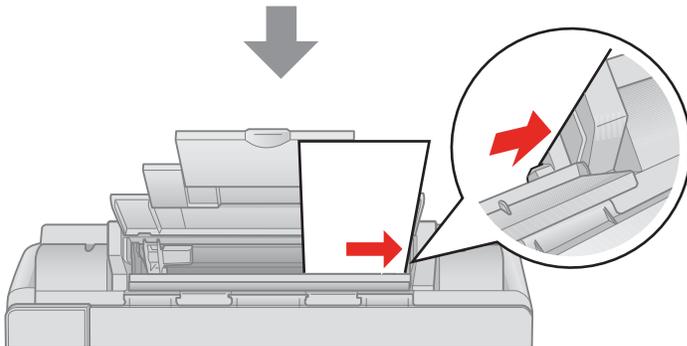
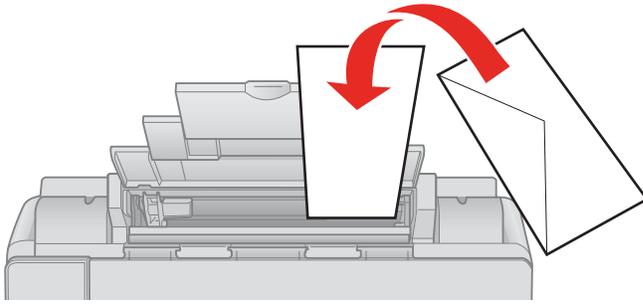
1. Open the paper support and pull up the extensions.
2. Open the output tray, pull out the extensions, and flip up the stopper.



3. Flip the feeder guard up, out of the way, then squeeze the edge guide and slide it left.



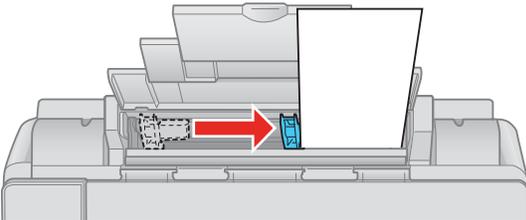
4. Load up to 10 envelopes against the right side and beneath the tab.  
Load them printable side up and flap edge left.



**Tip:**

Press each envelope flat before loading it or load one envelope at a time.

5. Slide the edge guide to the edge of the envelopes, but not too tightly.



See also:

[Load Paper for Photos](#)

[Load Paper for Documents](#)

## **General Paper Information**

[Sheet Feeder Capacity](#)

[Available Epson Papers](#)

[Borderless Paper Types and Sizes](#)

[Paper or Media Type Settings for Loaded Paper](#)

## Sheet Feeder Capacity

Paper type	Load up to this many sheets
Plain paper—letter-size (8.5 × 11 inches [216 × 279 mm])	Approximately 100 sheets*
Epson Bright White Paper Epson Presentation Paper Matte	80 sheets
Epson Photo Paper Glossy Epson Premium Photo Paper Glossy Epson Ultra Premium Photo Paper Glossy Epson Premium Photo Paper Semi-gloss Epson Premium Presentation Paper Matte	20 sheets
Epson Premium Presentation Paper Matte Double-sided Epson Photo Quality Self-adhesive Sheets Epson Iron-on Cool Peel Transfer Plain paper—legal size (8.5 × 14 inches [216 × 356 mm])	1 sheet

\* Based on 20-lb [75 g/m<sup>2</sup>] paper weight. Do not load paper higher than the ► arrow mark on the left edge guide.

## Available Epson Papers

You can [purchase genuine Epson ink and paper](#).

Paper type	Size	Part number	Sheet count
Epson Bright White Paper	Letter (8.5 × 11 inches [216 × 279 mm])	S041586	500
Epson Photo Paper Glossy	Borderless 4 × 6 inches (102 × 152 mm)	S042038	100
		S041809	50
	Letter (8.5 × 11 inches [216 × 279 mm])	S041141	20
Epson Premium Photo Paper Glossy	Borderless 4 × 6 inches (102 × 152 mm)	S041649	50
		S041271	100
	Borderless 5 × 7 inches (127 × 178 mm)	S041808	40
	S041727	100	
Borderless 8 × 10 inches (203 × 254 mm)	S041464	20	
	S041465	20	
Letter (8.5 × 11 inches [216 × 279 mm])	S041667	50	

<b>Paper type</b>	<b>Size</b>	<b>Part number</b>	<b>Sheet count</b>
Epson Ultra Premium Photo Paper Glossy	Borderless 4 × 6 inches (102 × 152 mm)	S042181 S042174	60 100
	Borderless 5 × 7 inches (127 × 178 mm)	S041945	20
	Borderless 8 × 10 inches (203 × 254 mm)	S041946	20
	Letter (8.5 × 11 inches [216 × 279 mm])	S042182 S042175	25 50
Epson Premium Photo Paper Semi-gloss	Borderless 4 × 6 inches (102 × 152 mm)	S041982	40
	Letter (8.5 × 11 inches [216 × 279 mm])	S041331	20
Epson Presentation Paper Matte	Letter (8.5 × 11 inches [216 × 279 mm])	S041062	100
	Legal (8.5 × 14 inches [216 × 356 mm])	S041067	100
Epson Premium Presentation Paper Matte	Borderless 8 × 10 inches (203 × 254 mm)	S041467	50
	Letter (8.5 × 11 inches [216 × 279 mm])	S041257	50
		S042180	100
Epson Premium Presentation Paper Matte Double-sided	Letter (8.5 × 11 inches [216 × 279 mm])	S041568	50
Epson Photo Quality Self-adhesive Sheets	A4 (8.3 × 11.7 inches [210 × 297 mm])	S041106	10
Epson Iron-on Cool Peel Transfer	Letter (8.5 × 11 inches [216 × 279 mm])	S041153	10

### **Borderless Paper Types and Sizes**

<b>Borderless paper type</b>	<b>Borderless paper size</b>
Epson Photo Paper Glossy Epson Premium Photo Paper Semi-gloss	4 × 6 inches (102 × 152 mm) Letter (8.5 × 11 inches [216 × 279 mm])

<b>Borderless paper type</b>	<b>Borderless paper size</b>
Epson Premium Photo Paper Glossy Epson Ultra Premium Photo Paper Glossy	4 × 6 inches (102 × 152 mm) 5 × 7 inches (127 × 178 mm) 8 × 10 inches (203 × 254 mm) Letter (8.5 × 11 inches [216 × 279 mm])
Epson Premium Presentation Paper Matte	8 × 10 inches (203 × 254 mm) Letter (8.5 × 11 inches [216 × 279 mm])

### **Paper or Media Type Settings for Loaded Paper**

For optimal image quality, it is important to choose the correct **Type** or **Media Type** setting. It tells your printer what kind of paper you're using and adjusts the ink coverage accordingly.

<b>For this paper</b>	<b>Select this paper Type or Media Type setting</b>
Plain paper Epson Bright White Paper Epson Presentation Paper Matte	Plain Paper/Bright White Paper
Epson Ultra Premium Photo Paper Glossy	Ultra Premium Photo Paper Glossy
Epson Premium Photo Paper Glossy	Premium Photo Paper Glossy
Epson Photo Paper Glossy	Photo Paper Glossy
Epson Premium Photo Paper Semi-gloss	Premium Photo Paper Semi-Gloss
Epson Premium Presentation Paper Matte Epson Premium Presentation Paper Matte Double-sided Epson Photo Quality Self-adhesive Sheets Epson Iron-on Cool Peel Transfer	Premium Presentation Paper Matte
Envelopes	Envelope

# Place Originals for Copying or Scanning

Before you copy or scan, place your documents or photos on the scanner.

## Place Documents

## Place Photos

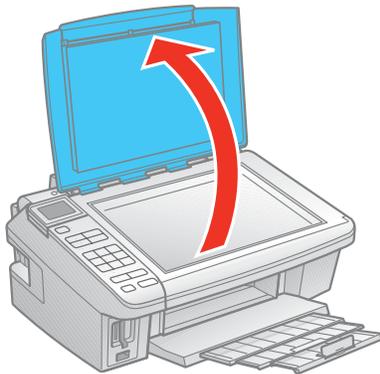
### **Caution:**

Do not place anything on top of the document cover or use the cover as a writing surface, or it could get permanently scratched.

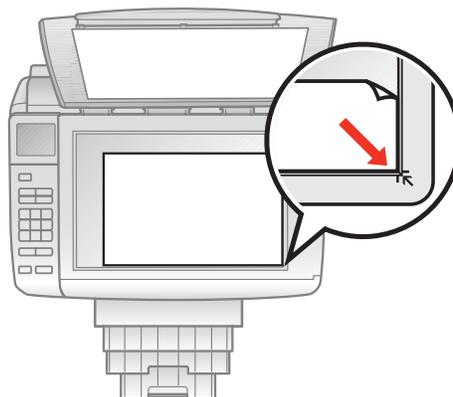
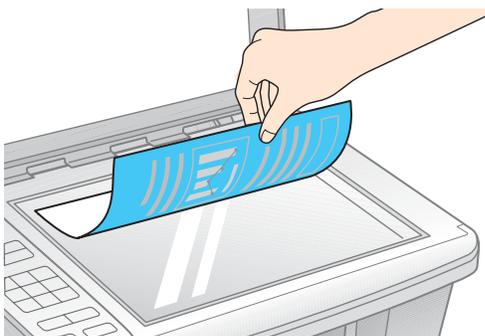
## Place Documents

Position your document on the scanner glass to copy or scan.

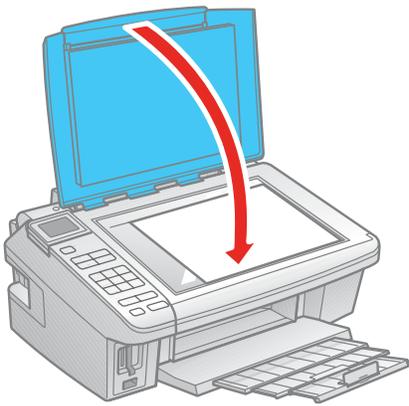
1. Open the document cover.



2. Place your original document face-down on the scanner glass with the top facing into the front right corner.



3. Close the document cover gently to keep your document in place.



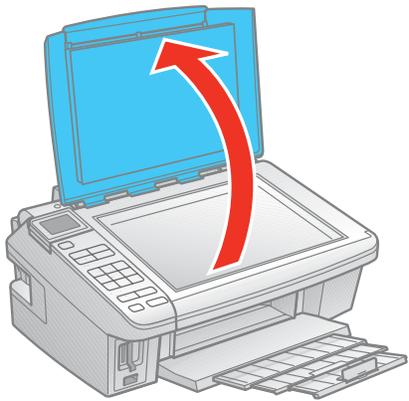
See also:

Place Photos

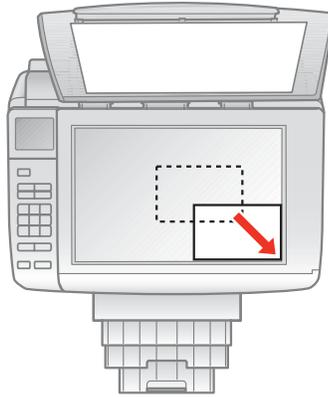
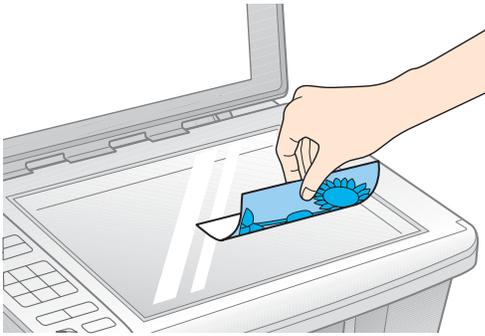
## **Place Photos**

Position your photos on the scanner glass to copy or scan.

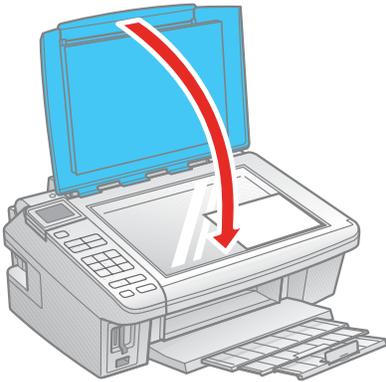
1. Open the document cover.



2. Place your original photo face-down on the scanner glass with the top facing into the front right corner.



3. Close the document cover gently to keep your document in place.



See also:

[Place Documents](#)



## Print From a Memory Card

You can print photos right from your digital camera's memory card by inserting it into your printer's memory card slot.

Before you begin, make sure to load photo paper.

Follow the steps in these sections to print from a memory card:

Insert Memory Card

Print Photos Using the LCD Screen

Print Photos Using an Index Sheet

Print Photos Pre-selected in Your Camera (DPOF)

Remove Memory Card

## Insert Memory Card

Insert one card at a time into one of the printer's memory card slots. Insert the type of card you have into the correct slot, as shown below.

### Compatible memory cards

Slot	Type of card
Right slot	CompactFlash <sup>®</sup> Type I and II Microdrive <sup>™</sup>

Slot	Type of card
Left slot	SD SDHC miniSD* miniSDHC* microSD* microSDHC* MultiMediaCard MMplus MMCmobile* MMCmicro* Memory Stick Memory Stick Duo* Memory Stick PRO Memory Stick PRO Duo* Memory Stick PRO-HG Duo* Memory Stick Micro* MagicGate Memory Stick MagicGate Memory Stick Duo* xD-Picture Card xD-Picture Card Type H xD-Picture Card Type M xD-Picture Card Type M+

\* Requires adapter

[DROP DOWN END]

Make sure the files on the card are compatible with your printer.

Compatible image files

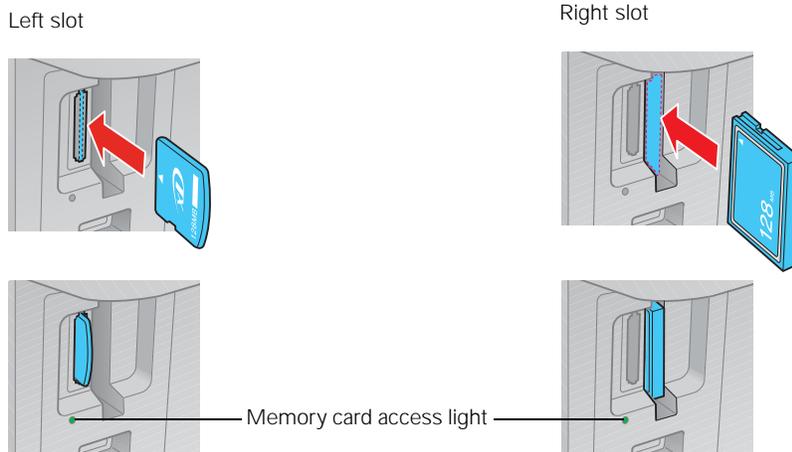
File format	JPEG with the Exif version 2.21 standard
Image size	80 × 80 pixels to 9200 × 9200 pixels
Number of files	Up to 9990

[DROP DOWN END]

**Note:**

Also consult your memory card and adapter documentation for any special use instructions for your card or adapter.

1. Turn on your printer.
2. Insert your card into the correct slot as shown below:



The memory card access light flashes and stays lit.

**Caution:**

Do not remove a card or turn off your printer when the memory card access light is flashing or you may lose photos on the card.

Now you can view the photos on your card and select them for printing. You can also print the photos on your card by selecting them from an index sheet.

See also:

Remove Memory Card

## **Print Photos Using the LCD Screen**

After inserting your memory card, press the **Memory Card** button to view your photos on the LCD display screen.

See these sections for instructions on selecting the photos you want to print:

Select Individual Photos for Printing

Select All Photos for Printing

Print Photos by Date

Print Photos From a Slide Show

See also:

Print Photos Using an Index Sheet

Print Photos Pre-selected in Your Camera (DPOF)

**Note:**

You can print only in color when printing directly from a memory card; you cannot print in black-and-white

### **Select Individual Photos for Printing**

You can select individual photos for printing as you view them on the LCD display screen.

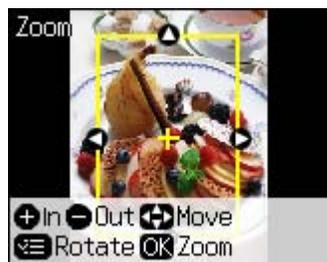
1. Press the **Memory Card** button. You see this screen:



2. Press **OK** to select **View and Print Photos**.
3. Press ◀ or ▶ to move through your photos and display one that you want to print.
4. Press the + or – button to select the number of copies you want of that photo.
5. If you want to crop your photo and enlarge the resulting image area to fit onto your paper, press **Display/Crop**.
6. After you finish cropping your photo, press **OK**.
7. Repeat steps 3 through 6 to select more photos, if you want.
8. To change any of the print settings displayed on the screen, press **Menu** and select your settings.
9. After you finish selecting your settings, press **OK**.
10. When you're ready to print, press ⬠ **Start**.  
To cancel printing, press ⏹ **Stop/Clear Settings**.

### *Crop Adjustments*

To crop your photos and enlarge the resulting image area to fit on your paper, press **Display/Crop**.



- To resize the image area, press + or –.
- To move the image area, use the arrow buttons.
- To check the zoomed image, press **OK**.
- To rotate the image area, press the **Menu** button.

### Memory Card Mode Print Settings

Press **Menu** to change these print settings while printing from a memory card:



- To change the paper type, select **Paper Type** and choose the type of paper you loaded.

Paper type	Paper Type setting
Epson Premium Photo Paper Glossy	Prem. Glossy
Epson Premium Photo Paper Semi-gloss	
Epson Ultra Premium Photo Paper Glossy	Ultra Glossy
Epson Photo Paper Glossy	Glossy
Plain paper	Plain Paper
Epson Bright White Paper	
Epson Presentation Paper Matte	
Epson Premium Presentation Paper Matte	Matte

- To change the paper size, select **Paper Size** and choose the size of paper you loaded.

**Note:**

**Paper Size** options depend on the **Paper Type** setting you choose.

- To change the layout, select **Layout** and choose **With Border** to leave a small margin around the image or select **Borderless** to expand the image all the way to the edge of the paper (slight cropping may occur).
- To change the print quality, select **Quality** and choose **Standard** or **Best**.

**Note:**

**Standard** is the default setting for **Quality** if you choose photo paper or matte.

- To print the date on your photos and select the format for it, select **Date** and choose the format you want.
- To slow down printing to improve print quality, select **Bidirectional** and choose **Off** (choose **On** for faster print speed).

- To adjust the amount of image expansion when printing borderless photos, select **Expansion** and choose **Standard**, **Min**, or **Mid**.

**Note:**

You may see white borders on your printed photo if you use the **Min** setting.

### Select All Photos for Printing

You can quickly select to print all of the photos on your memory card.

- Press the **Memory Card** button.
- Press ◀ or ▶ to select **Print All Photos**, then press **OK**.



- To print one copy of all the photos on 4 × 6-inch (102 × 152 mm) Epson photo paper (various types available), press ◊ **Start** and continue with step 7.

To select multiple copies with different print settings, press **OK** and continue with step 4.



- To print more than 1 copy, press + or – to select the number (up to 99).
- To change any of the print settings, press **Menu** and select your settings.
- After you finish selecting your settings, press **OK**.
- When you're ready to print, press ◊ **Start**.

To cancel printing, press ⊗ **Stop/Clear Settings**.

### Print Photos by Date

You can quickly print photos by the date they were taken.

- Press ◀ or ▶ to select **Print by Date**, then press **OK**.



2. Highlight any date shown and press ► to select photos taken on that date.
3. Press **OK**.
4. To print more than 1 copy, press + or – to select the number (up to 99).
5. To change any of the print settings, press **Menu** and select your settings.
6. After you finish selecting your settings, press **OK**.
7. When you're ready to print, press ◊ **Start**.  
To cancel printing, press ⊗ **Stop/Clear Settings**.

### Print Photos From a Slide Show

You can view your photos one at a time in a slide show and select the ones you want for printing.

1. Press the **Memory Card** button.
2. Press ◀ or ▶ to select **Slide Show**, then press **OK**. (Press ▲ or ▼ to pause the photo or restart the slide show as necessary.)



3. Press **OK** to select a photo that you want to print.
4. To print more than 1 copy, press + or – to select the number (up to 99).
5. If you want to crop your photo and enlarge the resulting image area to fit onto your paper, press **Display/Crop**.
6. After you finish cropping your photo, press **OK**.
7. To change any of the print settings displayed on the screen, press **Menu** and select your settings.
8. After you finish selecting your settings, press **OK**.

9. When you're ready to print, press **Start**.

To cancel printing, press **Stop/Clear Settings**.

## Print Photos Using an Index Sheet

You can print an index sheet containing small versions of all the photos on your memory card, and then select the ones you want to print. Just mark them on the sheet and scan the sheet; your printer automatically prints them.

Follow the steps in these sections to print an index sheet, and select and print photos from it:

### Print Index Sheet

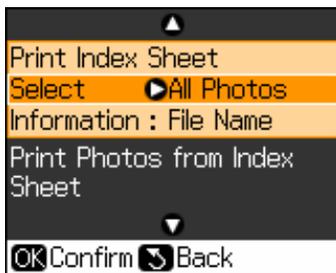
### Print Photos From Index Sheet

#### Print Index Sheet

1. Load several sheets of plain letter- or A4-size paper.
2. Insert a memory card in a memory card slot.
3. Press the **Memory Card** button.
4. Press **◀** or **▶** to select **Print Index Sheet**.



5. Press **OK**, then select the index sheet options you want and press **OK** again.



#### Index sheet options

- To select the photos to include in the index sheet, choose **Select**, then select **All Photos**, **Latest 30**, **Latest 60**, or **Latest 90**.
- To print the date or file name of each photo on the index sheet, select **Information** and choose **Date** or **File Name**.

[DROP DOWN END]

6. Press **Start** to print the index sheet. The most recent photos are printed on the first index sheet, up to 30 photos per page.

If you need to cancel printing, press the **Stop/Clear Settings** button.

Now you can select your photos on the sheet, and scan and print them.

### Print Photos From Index Sheet

Once you have printed an index sheet, you can mark the photos you want to print right on the sheet, scan the sheet, and print the photos automatically.

1. Load the type of photo paper on which you want to print your photos.
2. Use a dark pen or pencil to fill in the circles on the sheet.

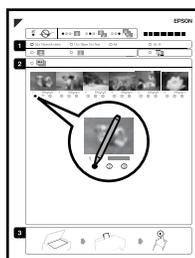
#### Note:

Do not use a permanent marker or felt-tip pen to fill in the circles on the sheet; otherwise, the scanner glass could be damaged when you place the sheet on the glass.

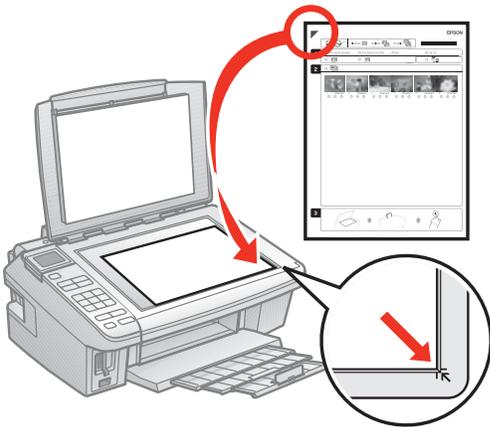
Correct:



Incorrect:



- Select the paper type and size you loaded.
  - Select a **Borderless** or **With Border** layout.
  - If you want to print the date the photo was taken on each photo, select **Print date on photos**.
  - Fill in one circle beneath each photo you want to print. The numbers indicate how many copies you want of that photo.  
If you want to print one copy of all the photos on the index sheet, fill in the **ALL** circle at the top.
3. Open the document cover.
  4. Place the index sheet face-down on the scanner glass, in the lower right corner so that the top of the sheet is aligned against the right edge of the glass.



5. Close the document cover.
6. Make sure your memory card is still inserted and the LCD display screen shows **Print Photos from Index Sheet** highlighted.
7. Press **OK**, then press **Start** to start scanning and printing. Wait until printing finishes before printing from any additional index sheets.

If you need to cancel printing, press the **Stop/Clear Settings** button.

When you finish printing, you can remove your memory card.

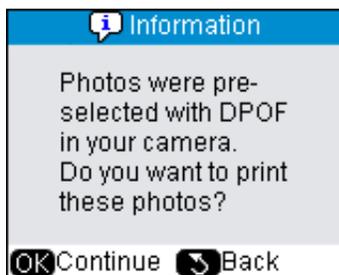
## Print Photos Pre-selected in Your Camera (DPOF)

If your camera supports DPOF (Digital Print Order Format), you can select the photos you want to print while your memory card is still in your camera. Then you can insert the card in your printer and quickly print them.

### Note:

See your camera manual for instructions on selecting photos with DPOF.

1. Insert a memory card containing photos selected with DPOF in a memory card slot. You see this screen:



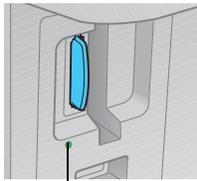
2. Click **OK**.



3. To change any of the print settings displayed on the screen, press **Menu** and select your settings.
4. After you finish selecting your settings, press **OK**.
5. Press **Start** to print your photos.  
If you need to cancel printing, press **Stop/Clear Settings**.

## Remove Memory Card

Before you remove your memory card or turn off your printer, make sure the memory card access light is not flashing:



Memory card access light

### Caution:

Do not remove a card or turn off your printer when the memory card access light is flashing or you may lose photos on the card.

If your printer is not connected to your computer, pull the memory card straight out of its slot.

If your printer is connected to your computer, do one of the following before removing the memory card or turning it off:

- **Windows:**  
Click the  or  icon on the task bar and select **Safely remove USB Mass Storage Device**. Once you see a confirmation message, remove the card.  
  
If you installed the NX510 Series on a network, make sure that the memory card light is not flashing, then remove the card from the slot.
- **Macintosh:**  
Drag the  removable disk icon from your desktop into the trash, then remove the card.



# Print From Your Computer

After you connect your printer to your computer and install its software, you can print documents and photos from your computer.

## Tip:

It's a good idea to check for updates to your printer software. See [Checking for Software Updates](#) for instructions.

Follow the instructions in these sections for your computer type:

[Windows Printing](#)

[Macintosh Printing \(Mac OS X 10.5\)](#)

[Macintosh Printing \(Mac OS X 10.3 and 10.4\)](#)

Before you print, make sure you installed your software and connected your printer to your computer or network; see the *Start Here* sheet or *Network Installation Guide* for instructions.

Also be sure to [load paper](#) in the sheet feeder.

## Windows Printing

You can print on your printer using any Windows printing program. For photos, it's easiest to print using the Windows Photo Gallery on Windows Vista<sup>®</sup> or the Picture and Fax Viewer on Windows XP.

## Note:

You can [change the language](#) used on the Windows driver screens, if desired.

Follow the steps in these sections to print from your Windows computer:

[Print From a Program](#)

[Print From Windows Photo Gallery in Windows Vista](#)

[Print From the Picture and Fax Viewer in XP](#)

[Select Basic Options](#)

[Change Print Layout](#)

[Select Advanced Options](#)

[Print Your Document or Photo](#)

[Check Printing Status](#)

[Change Default Print Settings](#)

See also:

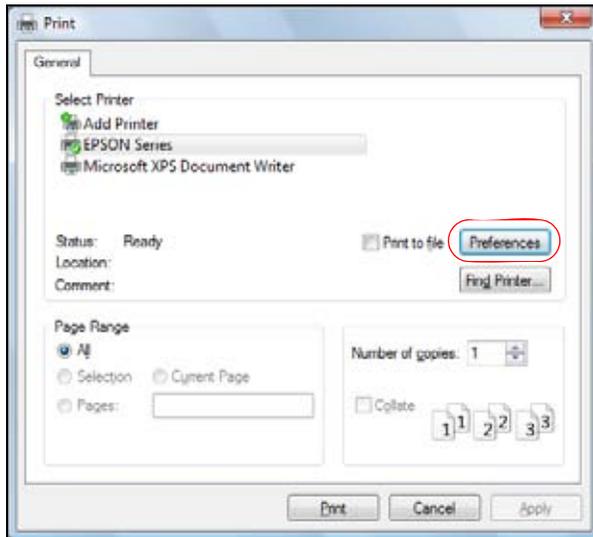
[Macintosh Printing \(Mac OS X 10.5\)](#)

[Macintosh Printing \(Mac OS X 10.3 and 10.4\)](#)

## Print From a Program

After you open a document or photo in a Windows program, follow these steps to access your print settings:

1. Open the **File** menu and select **Print**.

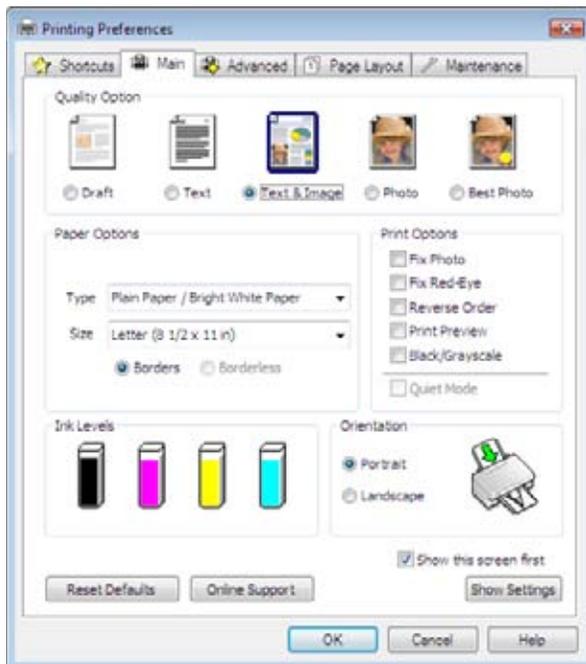


2. Select your Epson printer.
3. Click **Properties** or **Preferences**.

**Note:**

If you don't have these buttons, click **Setup**, **Printer**, or **Options**, then click **Properties** or **Preferences** on the next screen.

Your printer setting window opens:



Follow the steps in these sections to select settings, print, and control printing:

[Select Basic Options](#)

[Change Print Layout](#)

[Select Advanced Options](#)

[Print Your Document or Photo](#)

[Check Printing Status](#)

See also:

[Print From Windows Photo Gallery in Windows Vista](#)

[Print From the Picture and Fax Viewer in XP](#)

[Change Default Print Settings](#)

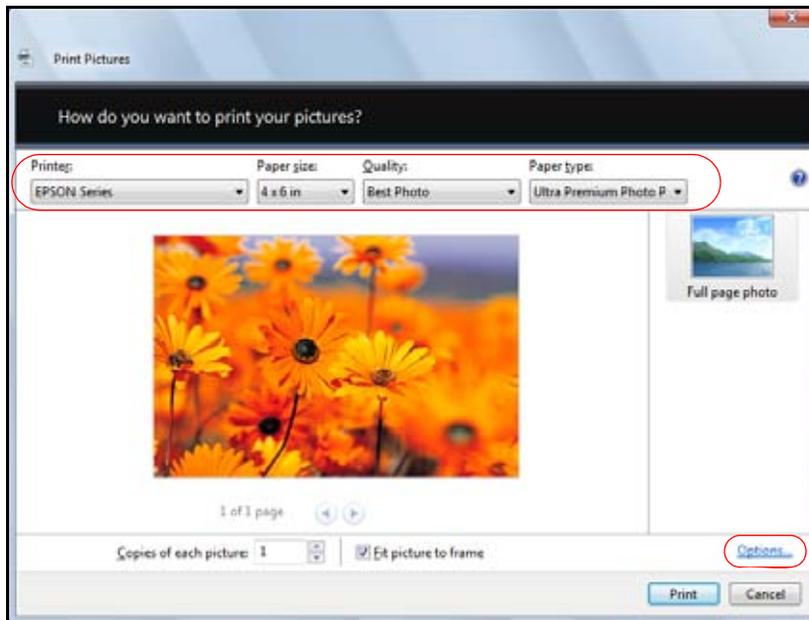
### **Print From Windows Photo Gallery in Windows Vista**

With Windows Vista, you can quickly print photos using the Windows Photo Gallery.

1. Locate a photo on your computer.
2. Right-click the photo, highlight **Open With**, and select **Windows Photo Gallery**.



3. Click the **Print** icon at the top of the screen, then select **Print** from the drop-down menu that appears.



4. Select your Epson printer, then choose the size and type of paper that you loaded in the printer.

#### Paper size settings

You can load paper in these sizes:

A4 (8.3 × 11.7 inches [210 × 297 mm])

Letter (8.5 × 11 inches [216 × 279 mm])

4 × 6 inches (102 × 152 mm)

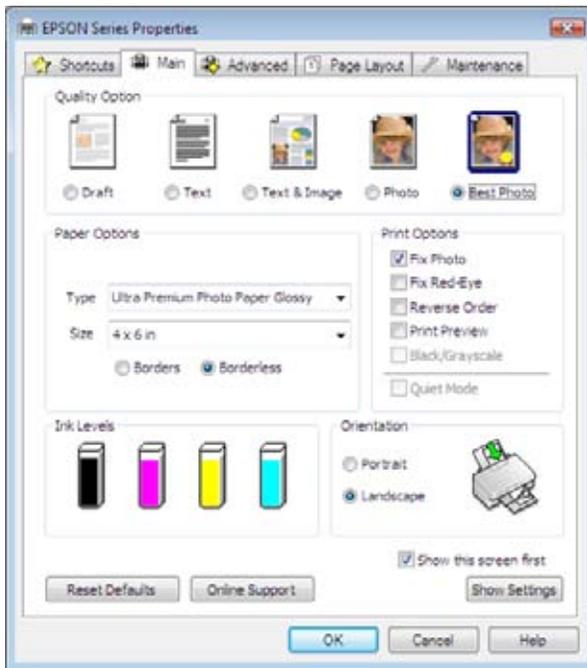
5 × 7 inches (127 × 178 mm)

8 × 10 inches (203 × 254 mm)

[DROP DOWN END]

5. Select **Photo** or **Best Photo** as the Quality setting.
6. Click **Options** in the lower right corner of the screen.
7. Select **Printer Properties**.

Your printer setting window opens:



8. Select your basic print options, layout, and advanced options as necessary.
9. Click **OK**.
10. When you return to the Windows Photo Gallery, click **Print**. Your photo prints.  
During printing, you can check the print status.

See also:

[Print From a Program](#)

[Change Default Print Settings](#)

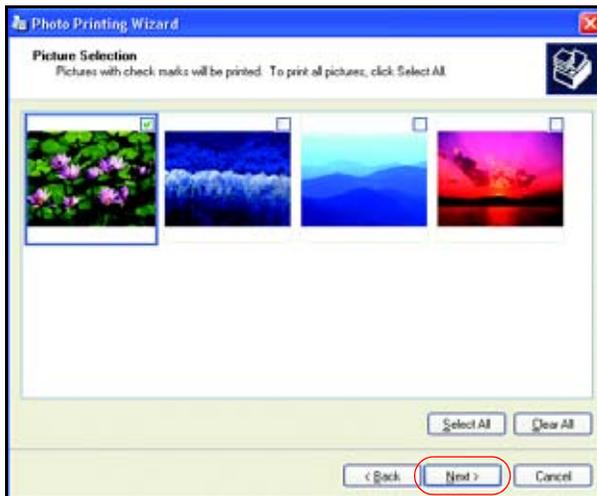
### **Print From the Picture and Fax Viewer in XP**

With Windows XP, you can quickly print photos using the Picture and Fax Viewer.

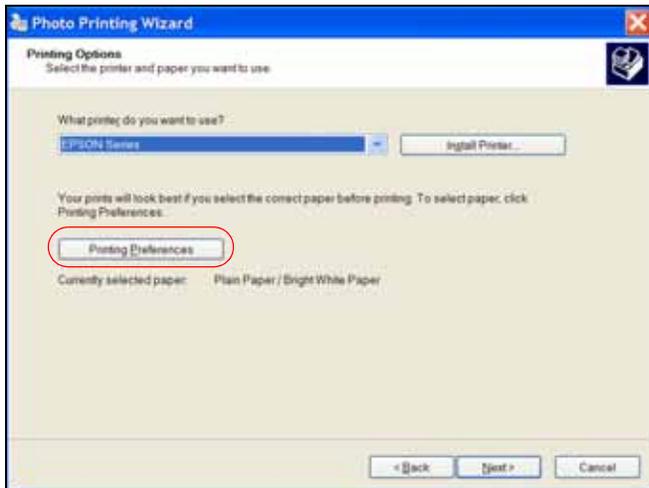
1. Locate a photo on your computer.
2. Right-click the photo, highlight **Open With**, and select **Windows Picture and Fax Viewer**.



3. Click the  print icon at the bottom of the screen.
4. Click **Next**.



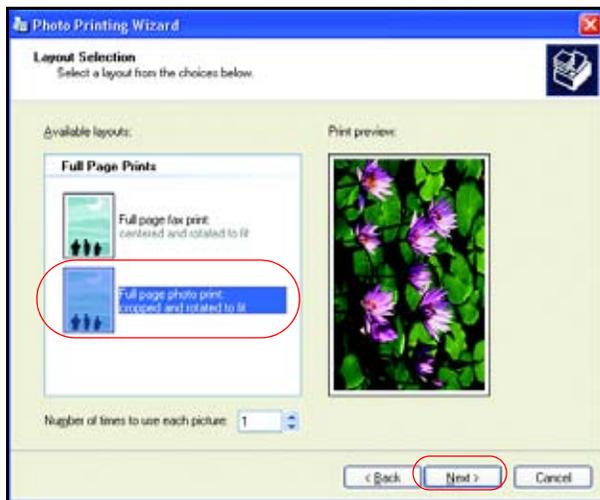
5. Select the photos you want to print and click **Next**.



6. Select your Epson printer and click **Printing Preferences**.  
Your printer setting window opens:



7. Select your basic print options, layout, and advanced options as necessary.
8. When you're ready to print, click **OK**.
9. Click **Next**. You see this screen:



10. Select **Full page photo print** and click **Next**.

Your photo prints.

During printing, you can check the print status.

See also:

[Print From a Program](#)

[Change Default Print Settings](#)

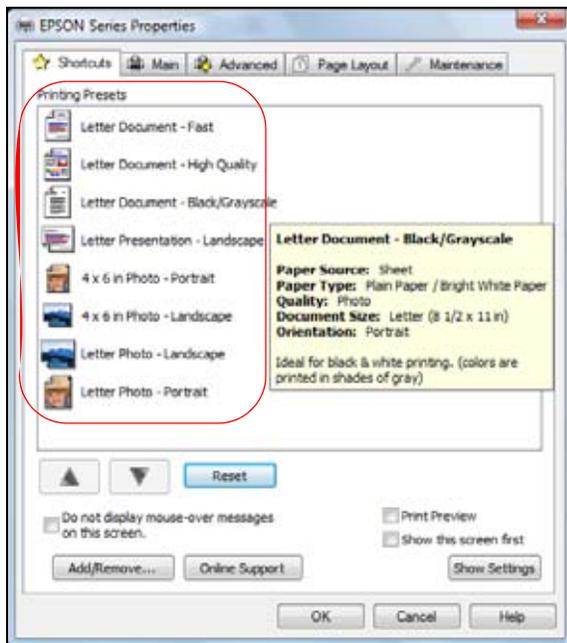
### Select Basic Options

There are two ways to select basic printing options:

- Select a printing preset to quickly select settings for common paper types, sizes, and print qualities.
- Select individual settings on the Main tab.

#### *Select a Printing Preset*

For quick access to the most common settings, click the **Shortcuts** tab. Point to one of the Printing Presets to view a list of the settings for it.



If the settings are correct for your print job, click the preset and print.

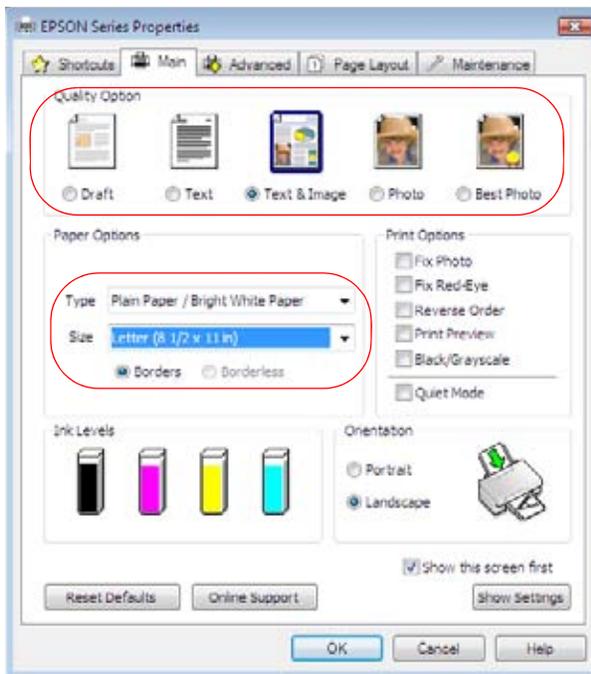
To create your own presets, click the **Save Settings** button on the Advanced tab.

To delete a preset you created, click **Add/Remove** on the Shortcuts tab, select the preset, and click **Delete**.

To reorder the list, highlight one of the Printing Presets and click the up or down arrow to move it. Or click **Reset** to return the list to its original order.

### ***Select Basic Settings on the Main Tab***

Click the **Main** tab on the top of the printer settings window to select your basic print options.



1. Select a **Quality Option** that matches your document or photo, and the print quality you want.

#### Quality Option settings

- **Draft:** for rough drafts with reduced quality
- **Text:** for documents containing only text
- **Text & Image:** for documents with text and images
- **Photo:** for photos and graphics with good quality and print speed
- **Best Photo:** for photos or graphics with high print quality

[DROP DOWN END]

2. Select the paper Type setting that matches the paper you loaded.
3. Select the paper Size setting for the paper you loaded.

#### Paper size settings

You can load paper in these sizes and select the size in the printer software. (Wider papers are for use only when reducing large images with the **Reduce/Enlarge Document** option.) A **User Defined** option is also available so you can create a custom size.

A4 (8.3 × 11.7 inches [210 × 297 mm])

A6 (4.1 × 5.8 inches [105 × 148 mm])

Letter (8.5 × 11 inches [216 × 279 mm])

Legal (8.5 × 14 inches [216 × 356 mm])

4 × 6 inches (102 × 152 mm)

5 × 7 inches (127 × 178 mm)

8 × 10 inches (203 × 254 mm)

Envelope #10 (4 1/8 × 9 1/2 inches [105 × 241 mm])

[DROP DOWN END]

4. If you're printing borderless photos, select **Borderless**. For documents or photos with borders, select **Borders**.

**Note:**

For borderless photos, make sure you loaded a compatible borderless paper size and type.

5. Choose **Portrait** or **Landscape** orientation for your document or photo. (Choose **Landscape** for printing envelopes.)

You can also:

- Select **Print Options**

Basic Print Options

- **Fix Photo:** improves the color, contrast, and sharpness of flawed photos.
- **Fix Red-Eye:** reduces or removes red-eye in photos.
- **Reverse Order:** starts printing with the last page so that pages are stacked in the right order.
- **Print Preview:** lets you preview your document or photo before printing it.
- **Black/Grayscale:** for printing text and graphics in shades of gray (not recommended for printing black-and-white photos). Some color ink will still be used for print head maintenance.
- **Quiet Mode:** reduces the print speed for quieter operation at the same quality level.

[DROP DOWN END]

- Select different print layout settings
- Select advanced printing options
- See a summary of your settings (click **Show Settings**)
- Return to the default settings (click **Reset Defaults**)
- Access the Epson product support website (click **Online Support**)

When you're finished, you're ready to print.

### **Change Print Layout**

You can select a variety of sizing and layout options on the **Page Layout** tab.



1. To size your printed document or photo, click the **Reduce/Enlarge Document** checkbox and select sizing options.

Reduce/Enlarge Document Options

- **By Output Paper Size:** sizes your printed document or photo to fit on the paper you loaded and selected in the box beneath the option.
- **By Percentage:** sizes your printed document or photo by the percentage you select in the box next to the option.

[DROP DOWN END]

2. To print multiple pages on one sheet, or one image across multiple sheets, click the **Multi-Page** checkbox and select multi-page options.

Multi-Page Options

- **Pages Per Sheet:** prints 2 (2-up) or 4 (4-up) document pages on each sheet of paper.
- **Print Page Borders:** prints borders around each page when you select **Pages Per Sheet**.
- **Page Order:** selects the order in which the 2 or 4 pages print on the sheet.
- **Poster Printing:** prints one page or image laid out on 2, 4, 9, or 16 sheets of paper to make a large poster, with or without borders (depending on the paper type).
- **Settings:** accesses the poster portions, trim line, and alignment options you can use when you select **Poster Printing**.

[DROP DOWN END]

3. To add a watermark message to your printed document or photo, select a **Watermark** setting.

Watermark Settings

- **Watermark** drop-down list: offers a selection of pre-defined watermark text, such as **Confidential**.
- **Add/Del** button: lets you select or delete a previously added watermark.
- **Settings** button: accesses settings to customize the way your watermark appears.

[DROP DOWN END]

4. To print on both sides of your paper, select a **2-sided Printing** setting.

2-sided Printing Settings

- **On**: prints on both sides of the paper by prompting you to reload the printed pages as necessary. Select **Off** to print on just one side of each page.
- **Margins**: customizes the margins used during double-sided printing.
- **Folded Booklet**: organizes double-sided printing page order to create a folded booklet.

[DROP DOWN END]

5. To select multiple copies and their print order, use the **Copies**, **Reverse Order**, and **Collate** options.
6. To adjust the amount of image expansion when printing borderless photos, select **Auto Expand** as the **Enlargement Method**, then adjust the Borderless **Expansion** slider to **Min**, **Mid**, or **Max**. (If you select **Retain Size**, the image is printed at its actual size without scaling.)

**Note:**

You may see white borders on your printed photo if you use the **Min** setting.

7. To rotate or flip the image you're printing, click the **Rotate 180°** or **Mirror Image** checkboxes. (If you are printing on Epson Iron-on Cool Peel Transfer Paper, turn on **Mirror Image**.)

See also:

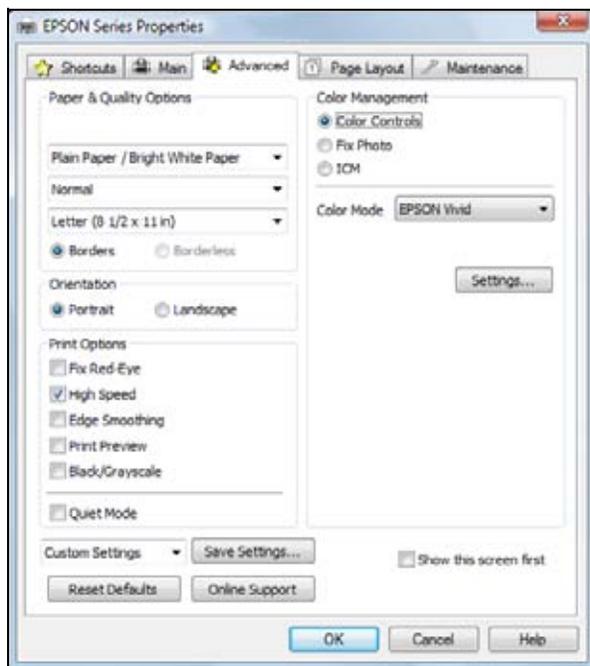
Select Basic Options

Select Advanced Options

Print Your Document or Photo

**Select Advanced Options**

Click the **Advanced** tab on the top of the printer settings window to select Advanced options.



1. Select the paper type setting that matches the paper you loaded.
2. Select the print quality setting for your document or photo.

#### Advanced Print Quality Settings

Available print quality settings depend on the selected paper **Type** setting.

- **Economy:** for fast printing with reduced quality
- **Fast Economy:** for the fastest printing with draft quality
- **Normal:** for everyday text and image printing
- **Fine:** for text and graphics with good quality and print speed
- **Super Fine:** for text and graphics with high quality and print speed
- **Photo:** for photos and graphics with good quality and print speed
- **Best Photo:** for photos or graphics with high print quality
- **Photo RPM<sup>®</sup> (Max dpi):** for the best print quality and slowest print speed (not available when the **Borderless** setting is selected)

[DROP DOWN END]

3. Select the paper size setting for the paper you loaded.

#### Paper size settings

You can load paper in these sizes and select the size in the printer software. (Wider papers are for use only when reducing large images with the **Reduce/Enlarge Document** option.) A **User Defined** option is also available so you can create a custom size.

A4 (8.3 × 11.7 inches [210 × 297 mm])

- A6 (4.1 × 5.8 inches [105 × 148 mm])
- Letter (8.5 × 11 inches [216 × 279 mm])
- Legal (8.5 × 14 inches [216 × 356 mm])
- 4 × 6 inches (102 × 152 mm)
- 5 × 7 inches (127 × 178 mm)
- 8 × 10 inches (203 × 254 mm)
- Envelope #10 (4 1/8 × 9 1/2 inches [105 × 241 mm])

[DROP DOWN END]

4. If you're printing borderless photos, select **Borderless**. For documents or photos with borders, select **Borders**.

**Note:**

For borderless photos, make sure you loaded a compatible borderless paper size and type.

5. Choose **Portrait** or **Landscape** orientation for your document or photo. (Choose **Landscape** for printing envelopes.)

You can also:

- Select **Print Options**

Advanced Print Options

- **Fix Red-Eye:** reduces or removes red-eye in photos.
- **High Speed:** speeds up printing, but may reduce print quality
- **Edge Smoothing:** prints sharper edges on low-resolution images, such as bars in a graph
- **Print Preview:** lets you preview your document or photo before printing it.
- **Black/Grayscale:** for printing text and graphics in shades of gray (not recommended for printing black-and-white photos). Some color ink will still be used for print head maintenance.
- **Quiet Mode:** reduces the print speed slightly for quieter operation at the same quality level.

[DROP DOWN END]

- Select **Color Management** options

Color Management Options

- **Color Controls:** lets you select a **Color Mode**. Click **Settings** to adjust **Brightness**, **Contrast**, **Saturation**, **Density**, and individual **Cyan**, **Magenta**, and **Yellow** color tones.  
**Color Mode:** when using **Color Controls**, selects the main method of printing colors for photos and graphics: **EPSON Vivid** or **AdobeRGB**.  
**Gamma:** when using **AdobeRGB**, adjusts the midtone density in the print.
- **Fix Photo:** improves the color, contrast, and sharpness of certain photos and provides special effect options.

- **ICM:** lets you select **Off (No Color Adjustment)** to use only the color adjustments provided by your printing program.

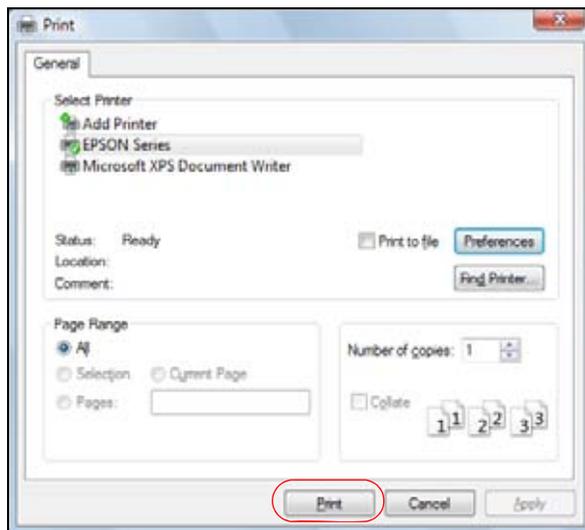
[DROP DOWN END]

- Select different print layout settings
- Select basic printing options
- Save all your selected settings for later use (click **Save Settings** and name the settings); to use saved settings later, select them from the **Custom Settings** list or from the Shortcuts tab
- Return to the default settings (click **Reset Defaults**)
- Access the Epson product support website (click **Online Support**)

When you're finished, you're ready to print.

### Print Your Document or Photo

After selecting your print settings, click **OK** to save them and return to the Print window.

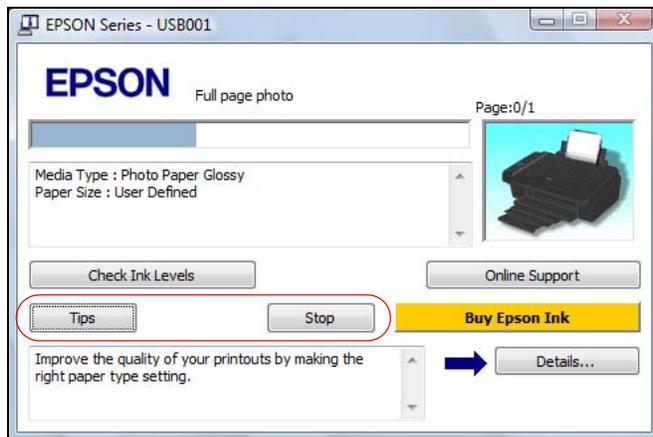


Click **OK** or **Print** to start printing.

During printing, you can check printing status.

### Check Printing Status

During printing, you see this window showing the progress of your print job. It allows you to control printing and check ink cartridge status.



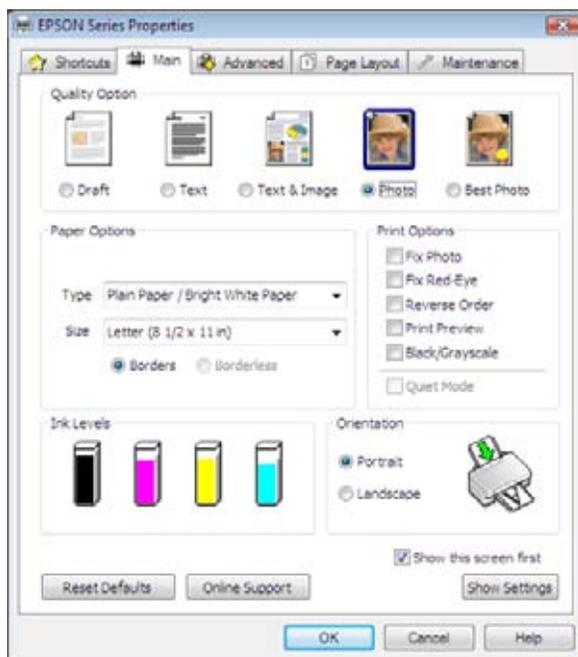
- To cancel printing, click **Stop**.
- For print information, click **Tips**.

If you see an error during printing, see [Solve Problems](#) for solutions.

### Change Default Print Settings

When you change your print settings from within a program, the changes apply only while you're printing at that time. If you want to select different settings to use in all your Windows programs, you can change the default print settings.

1. Right-click the  printer icon in the bottom right corner of your screen (the taskbar).
2. Select **Printer Settings**. You see the printer settings window:



3. Select the print settings you want to use as defaults in all your Windows programs. You can still change the default settings from within a program as needed.

## **Macintosh Printing (Mac OS X 10.5)**

You can print using any Mac OS<sup>®</sup> X printing program.

Follow the steps in these sections to print from your Macintosh:

Open Your File for Printing

Select Basic Print Options

Select Copies and Pages

Select Page Setup Options

Select Advanced Print Options

Change Print Layout

Manage Color

Adjust Image Expansion

Fix Red-Eye Effects

View Print Setting Summary

Schedule Printing

Print Your Document or Photo

Check Printing Status

See also:

Windows Printing

Macintosh Printing (Mac OS X 10.3 and 10.4)

### **Open Your File for Printing**

You can open a file for printing by either:

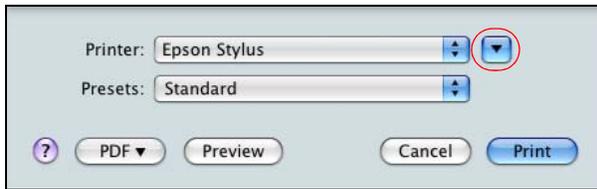
- Starting a printing program and opening the document or photo from it
- Double-clicking the document or photo file icon on the screen.

When you're ready to print, select print options and then print.

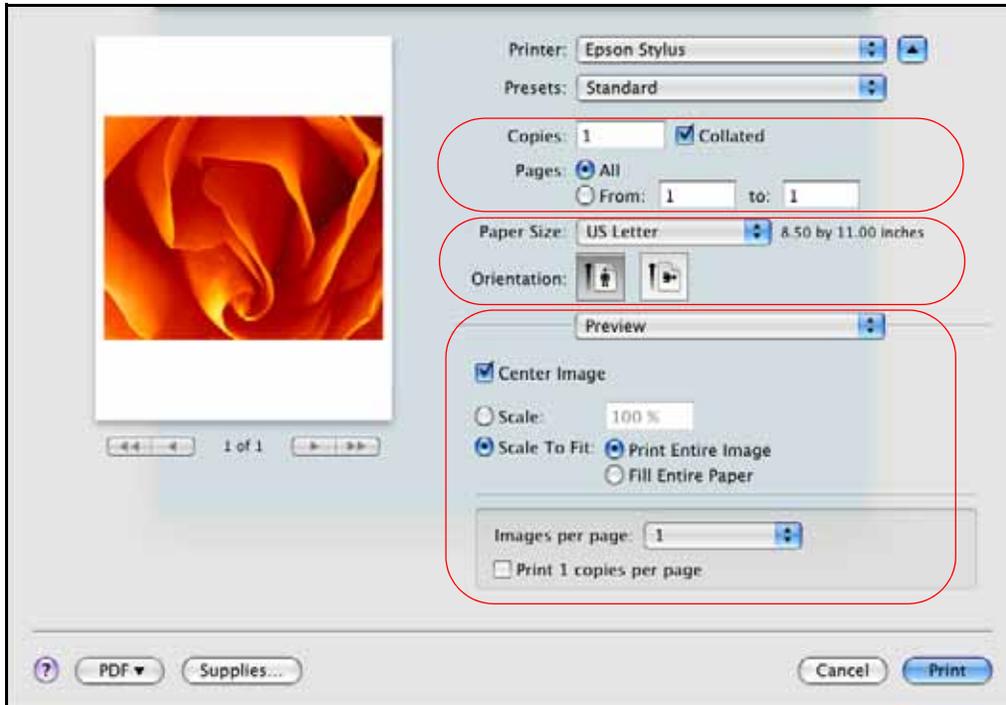
### **Select Basic Print Options**

After opening your file for printing, open the Print window to select your print options.

1. Open the **File** menu and select **Print**.
2. Click the ▼ button to expand the Print window, if necessary.



3. Select your Epson printer as the **Printer** setting.



4. Select the Copies and Pages settings for your print job.

**Note:**

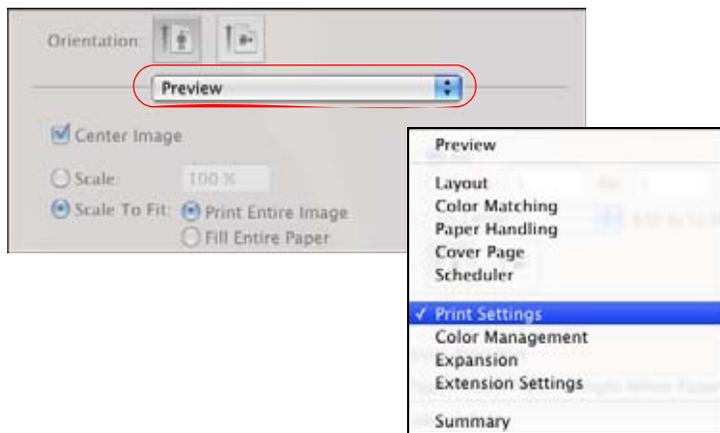
If you don't see these settings here, check for them in your application before printing.

5. Select the page setup options to choose the **Paper Size** and **Orientation** settings.

**Note:**

If you don't see these settings here, check for them in your application before printing. For example, you may be able to select them by opening the **File** menu and selecting **Page Setup**.

6. Select any settings that are specific to the application you're using. For example, if you're printing from Preview, you see the application settings shown above.
7. Select **Print Settings** from the pop-up menu.



These settings appear on the screen:



8. Select the Media Type setting that matches the paper you loaded.
9. Select **Color** or **Black/Grayscale** output in the Color pop-up menu. If you select Black/Grayscale, some color ink will still be used for print head maintenance.
10. Select **Automatic** as the **Mode** setting for basic printing.
11. Move the **Quality/Speed** slider as necessary to select higher quality or faster print speed.

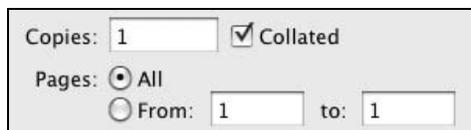
You can also:

- Select advanced printing options
- Select different print layout settings
- Select color management options
- Adjust the amount of image expansion when printing borderless photos
- Fix red-eye effects in photos
- See a summary of your settings
- Schedule printing for another time

When you're finished, you're ready to print.

## Select Copies and Pages

Depending on your application, you may be able to change the number of copies to print, select collation, and select which pages to print from the Print window.



The screenshot shows a print dialog box with the following settings: 'Copies' is set to 1, 'Collated' is checked, 'Pages' is set to 'All', and 'From' and 'to' fields are both set to 1.

### Note:

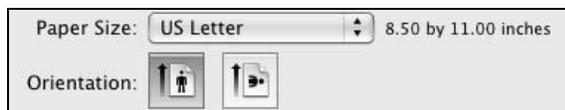
If you don't see these settings in the Print window, check for them in your application before printing.

1. To print multiple copies of your document, enter the number in the **Copies** field.
2. To collate the multiple copies into sets of documents, click **Collated**.
3. If you want to print only certain pages in your document, enter the page numbers in the **Pages From** and **to** fields.

When you're finished, you're ready to print.

## Select Page Setup Options

Depending on your application, you may be able to select the paper size and orientation settings, and adjust the size of your printed document or photo, from the Print window.



The screenshot shows a print dialog box with 'Paper Size' set to 'US Letter' (8.50 by 11.00 inches) and 'Orientation' set to 'Portrait'.

### Note:

If you don't see these settings in the Print window, check for them in your application before printing. For example, you may be able to select them by opening the **File** menu and selecting **Page Setup**.

1. Select the **Paper Size** setting for the paper you loaded.

If you want to print a borderless photo, select the paper size with a **Sheet Feeder - Borderless** option.

### Note:

For borderless photos, make sure you loaded a compatible borderless paper size and type.

#### Paper size settings

You can load paper in these sizes and select the size in the printer software. A custom option is also available so you can create a custom paper size.

A4 (8.3 × 11.7 inches [210 × 297 mm])

A6 (4.1 × 5.8 inches [105 × 148 mm])

Letter (8.5 × 11 inches [216 × 279 mm])

Legal (8.5 × 14 inches [216 × 356 mm])

4 × 6 inches (102 × 152 mm)

5 × 7 inches (127 × 178 mm)

8 × 10 inches (203 × 254 mm)

Envelope #10 (4 1/8 × 9 1/2 inches [105 × 241 mm])

[DROP DOWN END]

2. Choose a portrait or landscape **Orientation** option for your document or photo. (Choose landscape for envelopes.)
3. To reduce or enlarge the size of your printed document or photo, select a different **Scale** percentage, if available.

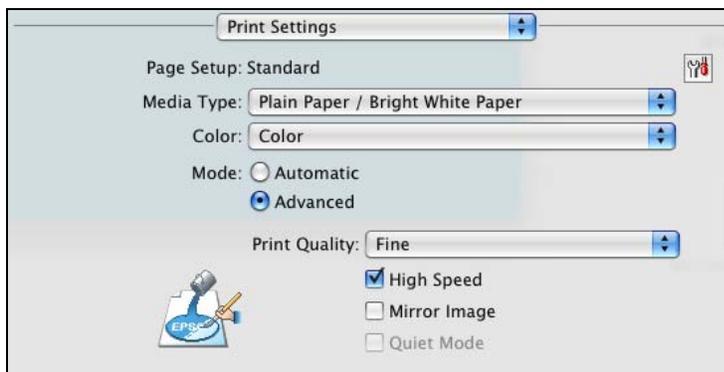
**Note:**

You can also adjust the scale by selecting **Paper Handling** from the pop-up menu. Select **Scale to fit paper size**, and then select any other scaling options.

### Select Advanced Print Options

After selecting the basic options on the Print window, you can click **Advanced** and select advanced options.

1. Click the **Advanced** button.



2. Select the **Print Quality** setting for your document or photo.

#### Advanced print quality settings

Available print quality settings depend on the selected **Media Type** setting.

- **Fast Economy:** for the fastest printing with draft print quality
- **Economy:** for fast printing with reduced print quality
- **Normal:** for everyday text and image printing
- **Fine:** for text and graphics with good print quality and speed
- **Super Fine:** for text and graphics with high print quality and speed
- **Photo:** for photos and graphics with good print quality and speed

- **Best Photo:** for photos and graphics with high print quality and speed
- **Photo RPM:** for the best print quality and slowest print speed (not available when printing with a borderless **Paper Size** setting)

[DROP DOWN END]

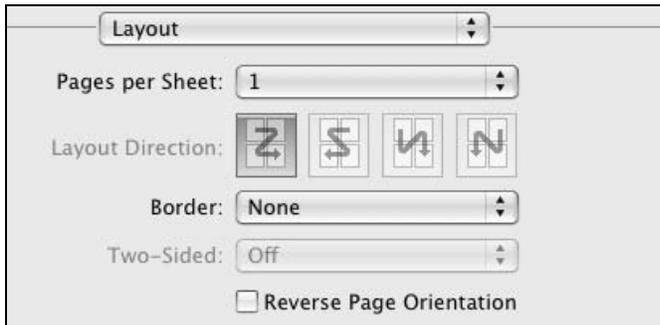
3. Click **High Speed** to speed up printing (may reduce print quality).
4. To flip the image you're printing, click **Mirror Image**. (If you are printing on Epson Iron-on Cool Peel Transfer Paper, turn on **Mirror Image**.)
5. Click **Quiet Mode** to print more quietly on plain paper (will reduce print speed).

When you're finished, you're ready to print.

### Change Print Layout

You can select a variety of layout options from the Print window.

1. Select **Layout** from the pop-up menu.



2. Select the following as necessary:
  - To print multiple pages on one sheet, select 2, 4, 6, 9, or 16 in the **Pages per Sheet** pop-up menu.
  - Select the order in which the multiple pages print on the sheet as the **Layout Direction** setting.
  - To print borders around each page, select one of the line settings in the **Border** pop-up menu.
  - To rotate the image you are printing 180°, click **Reverse Page Orientation**.

When you're finished, you're ready to print.

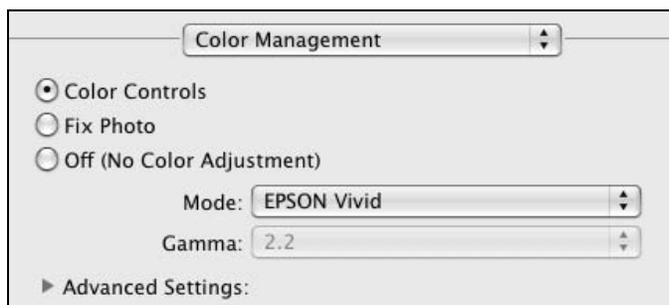
### Manage Color

You can manage how colors are handled in your photos by selecting **Color Management** options from the Print window.

#### Note:

If you want to use ColorSync to manage color, select **Color Matching** from the pop-up menu, then select the profile for the paper you are using.

1. Select **Color Management** from the pop-up menu.



2. Select one of the following color management methods:

- **Color Controls** lets you select a color **Mode** for printing the colors in photos and graphics: **EPSON Vivid** or **AdobeRGB**.  
**Advanced Settings** adjust **Brightness**, **Contrast**, **Saturation**, and individual **Cyan**, **Magenta**, and **Yellow** color tones.  
**Gamma** adjusts the midtone density in the print (available only when using **AdobeRGB**).
- **Fix Photo** automatically analyzes your photos and, if necessary, adjusts the brightness, contrast, and saturation. You can select **Scene Correction** and choose **Auto Correct**, **People**, **Landscape**, **Night Scene**, **Sepia**, or **Gray**. **Advanced Settings** let you select additional options for **Digital Camera Correction** and **Smooth Skin**.

**Note:**

Fix Photo (or Auto Photo Correction) uses a sophisticated face recognition technology to optimize photos that include faces. For this to work, both eyes and the nose must be visible in the subject's face. If your photo includes a face with an intentional color cast, such as a statue, you may want to turn off Fix Photo to retain the special color effects.

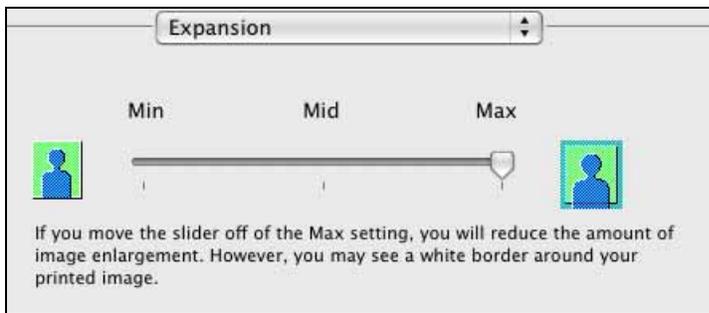
- **Off (No Color Adjustment)** turns off printer software color adjustments so you can use the color adjustments in your program only.

When you're finished, you're ready to print.

### **Adjust Image Expansion**

You can adjust the amount of image expansion when printing borderless photos from the Print window.

1. Select **Expansion** from the pop-up menu.



**Note:**

This option is available only when you chose a Paper Size setting of **Sheet Feeder - Borderless** from the Print window.

2. To adjust the borderless expansion, select **Min**, **Mid**, or **Max** in the pop-up menu.

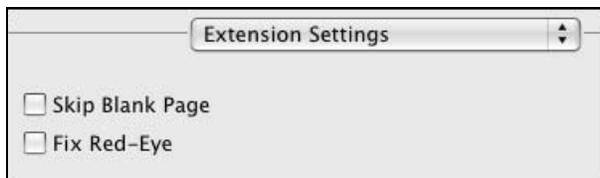
**Note:**

You may see white borders on your printed photo if you use the **Min** setting.

When you're finished, you're ready to print.

### Fix Red-Eye Effects

To reduce or remove red-eye in photos, select the **Extension Settings** menu.

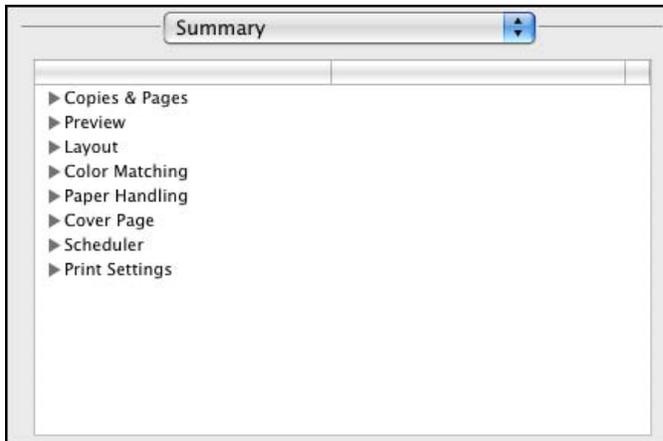


Click the **Fix Red-Eye** checkbox to turn on this feature.

When you're finished, you're ready to print.

### View Print Setting Summary

To see a summary of your settings, select **Summary** from the pop-up menu.



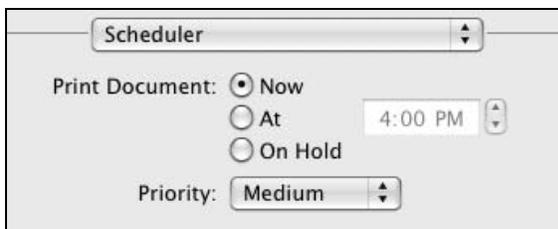
Click the arrows to expand summary information for different types of settings.

When you're finished, you're ready to print.

### Schedule Printing

You can print your documents or photos at specified times or print them according to priorities you set.

1. Select **Scheduler** from the pop-up menu.



2. To print at a specific time, click **At** and enter a time.
3. To hold the document or photo for printing when you later release it, click **On Hold**.
4. To set a priority for printing this document or photo in relation to others you will be printing, select a setting in the **Priority** pop-up menu.

When you're finished, you're ready to print.

### Print Your Document or Photo

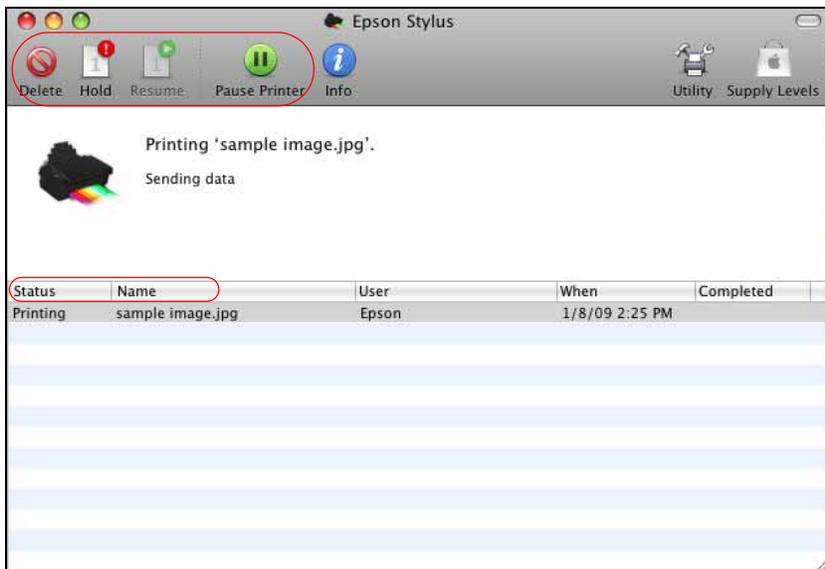
After selecting your print settings, click **Print** to start printing.

During printing, you can check printing status.

### Check Printing Status

During printing, you can view the progress of your print job and control printing.

1. Click your Epson printer icon when it appears in the dock at the bottom of the screen.



2. Select from these options:

- To cancel printing, click the print job and click **Delete**.
- To pause printing for a specific print job, click the print job and click **Hold**. To resume printing, click the print job marked “Hold” and click **Resume**.
- To pause printing for all print jobs, click **Pause Printer**.

3. When you're finished, close the window to exit the program.

If you see an error during printing, see [Solve Problems](#) for solutions.

## Macintosh Printing (Mac OS X 10.3 and 10.4)

You can print using any Mac OS X printing program.

Follow the steps in these sections to print from your Macintosh:

[Open Your File for Printing](#)

[Select Page Options](#)

[Select Basic Print Options](#)

[Select Advanced Print Options](#)

[Change Print Layout](#)

[Select Copy/Collation Options](#)

[Manage Color](#)

[Adjust Image Expansion](#)

[View Print Setting Summary](#)

[Schedule Printing](#)

[Print Your Document or Photo](#)

## Check Printing Status

See also:

## Windows Printing

## Macintosh Printing (Mac OS X 10.5)

### **Open Your File for Printing**

Before printing, make sure you added your printer to the Printer Setup Utility as described on the *Start Here* sheet.

You can open a file for printing by either:

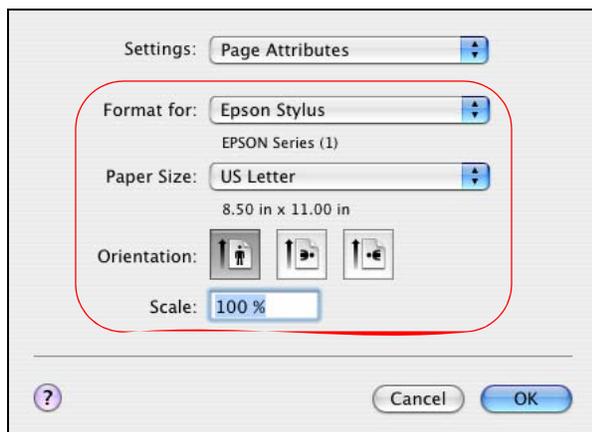
- Starting a printing program and opening the document or photo from it.
- Double-clicking the document or photo file icon on the screen.

When you're ready to print, select the page options and print options, and then print.

### **Select Page Options**

Open the Page Setup window to select your page options.

1. Open the **File** menu and select **Page Setup**.



2. Select your Epson printer as the **Format for** setting.
3. Select the **Paper Size** setting for the paper you loaded.

If you want to print a borderless photo, select the paper size with a **Sheet Feeder - Borderless** option.

#### **Note:**

For borderless photos, make sure you loaded a compatible borderless paper size and type.

#### Paper size settings

You can load paper in these sizes and select the size in the printer software. A **Custom** option is also available so you can create a custom size (in OS X 10.3.9, select **Custom Paper Size** from the **Settings** pop-up menu).

- A4 (8.3 × 11.7 inches [210 × 297 mm])
- A6 (4.1 × 5.8 inches [105 × 148 mm])
- Letter (8.5 × 11 inches [216 × 279 mm])
- Legal (8.5 × 14 inches [216 × 356 mm])
- 4 × 6 inches (102 × 152 mm)
- 5 × 7 inches (127 × 178 mm)
- 8 × 10 inches (203 × 254 mm)
- Envelope #10 (4 1/8 × 9 1/2 inches [105 × 241 mm])

[DROP DOWN END]

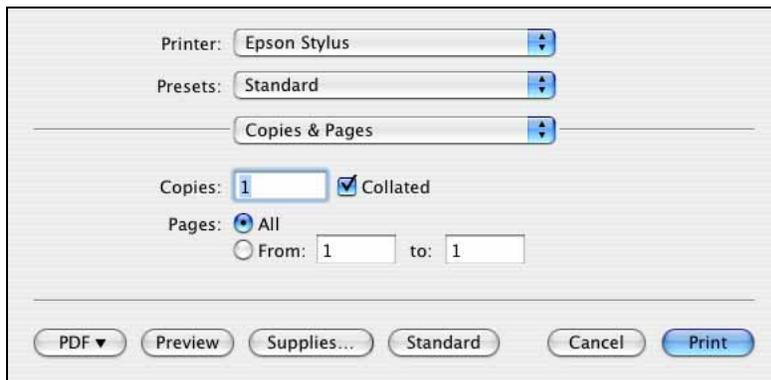
4. Choose a portrait or landscape **Orientation** option for your document or photo. (Choose  landscape left for envelopes.)
5. To reduce or enlarge the size of your printed document or photo, select a different **Scale** percentage.
6. Click **OK** to close the Page Setup window.

Now you can select your print settings and print.

### Select Basic Print Options

After selecting your page options, open the Print window to select your print options.

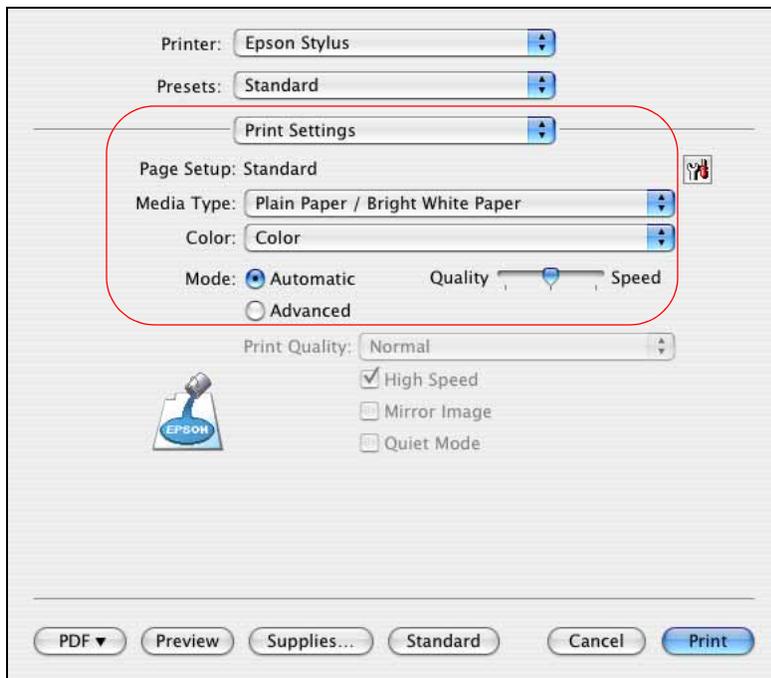
1. Open the **File** menu and select **Print**.



2. Select your Epson printer as the **Printer** setting.
3. Select **Print Settings** from the pop-up menu.

**Note:**

In certain programs, you may need to select **Advanced** before you can select Print Settings.



4. Select the Media Type setting that matches the paper you loaded.
5. Select **Color** or **Black/Grayscale** output (if available) in the Color pop-up menu. If you select Black/Grayscale, some color ink will still be used for print head maintenance.
6. Select **Automatic** as the **Mode** setting for basic printing.
7. Move the **Quality/Speed** slider as necessary to select higher quality or faster print speed.

You can also:

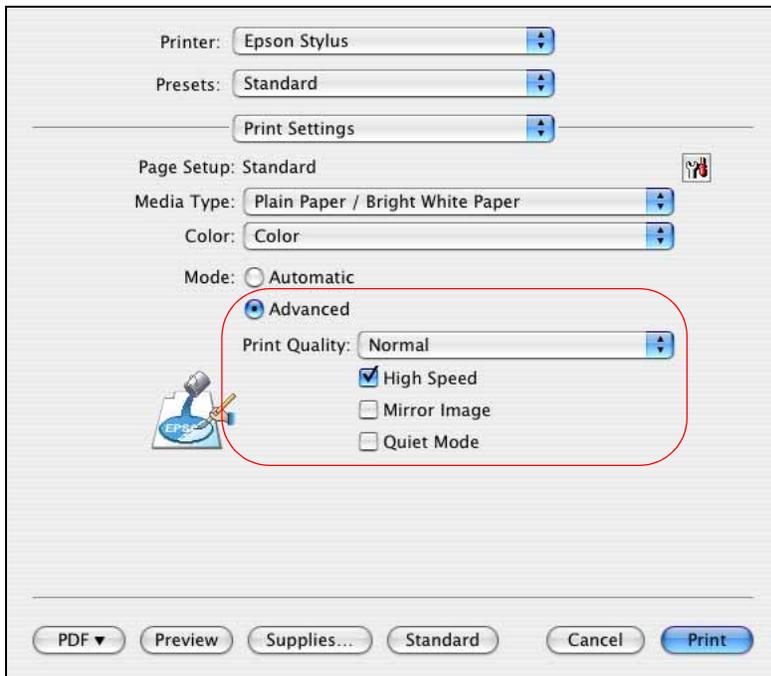
- Select advanced printing options
- Select different print layout settings
- Select copy and collation options
- Select color management options
- Adjust the amount of image expansion when printing borderless photos
- See a summary of your settings
- Schedule printing for another time

When you're finished, you're ready to print.

### Select Advanced Print Options

After selecting the basic options on the Print window, you can click **Advanced** and select advanced options.

1. Click the **Advanced** button.



2. Select the **Print Quality** setting for your document or photo.

Advanced Print Quality Settings

Available print quality settings depend on the selected **Media Type** setting.

- **Fast Economy:** for the fastest printing with draft quality
- **Economy:** for fast printing with reduced quality
- **Draft:** for rough drafts with reduced quality
- **Normal:** for everyday text and image printing
- **Fine:** for text and graphics with good quality and print speed
- **Super Fine:** for text and graphics with high quality and print speed
- **Photo:** for photos and graphics with good quality and print speed
- **Best Photo:** for photos or graphics with high print quality
- **Photo RPM:** for the best print quality and slowest print speed (not available when printing with a borderless **Paper Size** setting)

[DROP DOWN END]

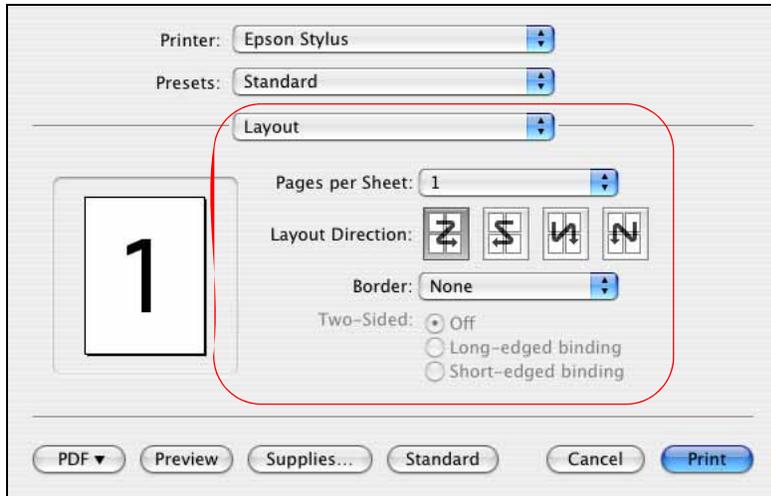
3. Click **High Speed** to speed up printing (may reduce print quality).
4. To flip the image you're printing, click **Mirror Image**. (If you are printing on Epson Iron-on Cool Peel Transfer Paper, turn on **Mirror Image**.)
5. To decrease noise (and print at a slightly reduced speed), click **Quiet Mode**.

When you're finished, you're ready to print.

## Change Print Layout

You can select a variety of layout options from the Print window.

1. Select **Layout** from the pop-up menu.



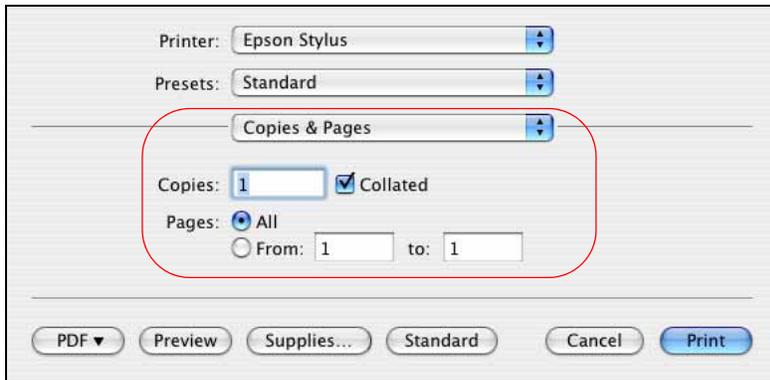
2. Select the following as necessary:
  - To print multiple pages on one sheet, select 2, 4, 6, 9, or 16 in the **Pages per Sheet** pop-up menu.
  - Select the order in which the multiple pages print on the sheet as the **Layout Direction** setting.
  - To print borders around each page, select one of the line settings in the **Border** pop-up menu.

When you're finished, you're ready to print.

## Select Copy/Collation Options

You can change the number of copies to print, select collation, and select which pages to print from the Print window.

1. Select **Copies & Pages** from the pop-up menu.



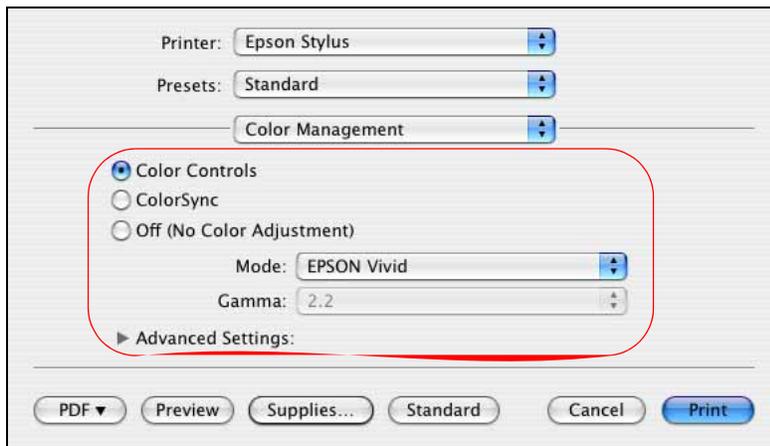
2. To print multiple copies of your document, enter the number in the **Copies** field.
3. To collate the multiple copies into sets of documents, click **Collated**.
4. If you want to print only certain pages in your document, enter the page numbers in the **Pages From** and **to** fields.

When you're finished, you're ready to print.

## Manage Color

You can manage how colors are handled in your photos by selecting **Color Management** and **ColorSync** options from the Print window.

1. Select **Color Management** from the pop-up menu.



2. Select one of the following color management methods:
  - **Color Controls** lets you select a color **Mode** that selects the main method of printing colors for photos and graphics: **EPSON Vivid** or **Adobe RGB**.  
**Gamma** adjusts the midtone density in the print (available only when using **Adobe RGB**).  
**Advanced Settings** adjust **Brightness**, **Contrast**, **Saturation**, and individual **Cyan**, **Magenta**, and **Yellow** color tones.

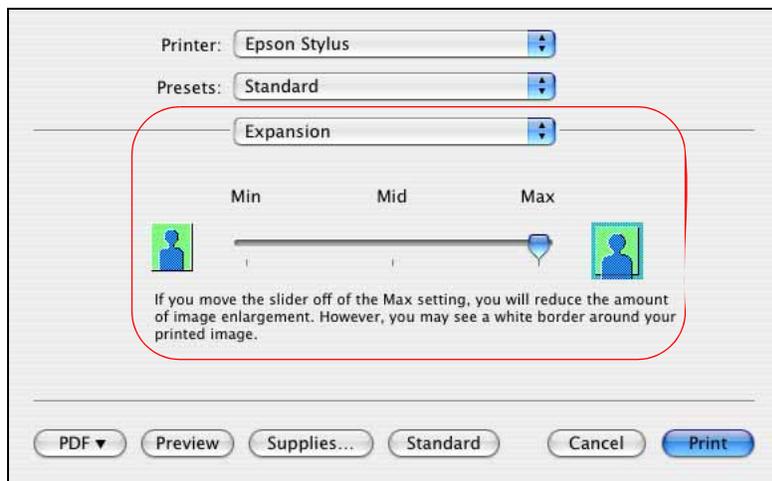
- **ColorSync** uses standard color profiles for your printer and paper to help match image colors. Select the ColorSync<sup>®</sup> conversion method and filters in the next step.
  - **Off (No Color Adjustment)** turns off printer software color adjustments so you can use the color adjustments in your program only.
3. If you selected **ColorSync** as the color management method, select **ColorSync** from the pop-up menu to continue customizing its use.

When you're finished, you're ready to print.

### Adjust Image Expansion

You can adjust the amount of image expansion when printing borderless photos from the Print window.

1. Select **Expansion** from the pop-up menu.



**Note:**

This option is available only when you chose a Paper Size setting of **Sheet Feeder - Borderless** on the Page Setup window.

2. To adjust the borderless expansion, select **Min**, **Mid**, or **Max** in the pop-up menu.

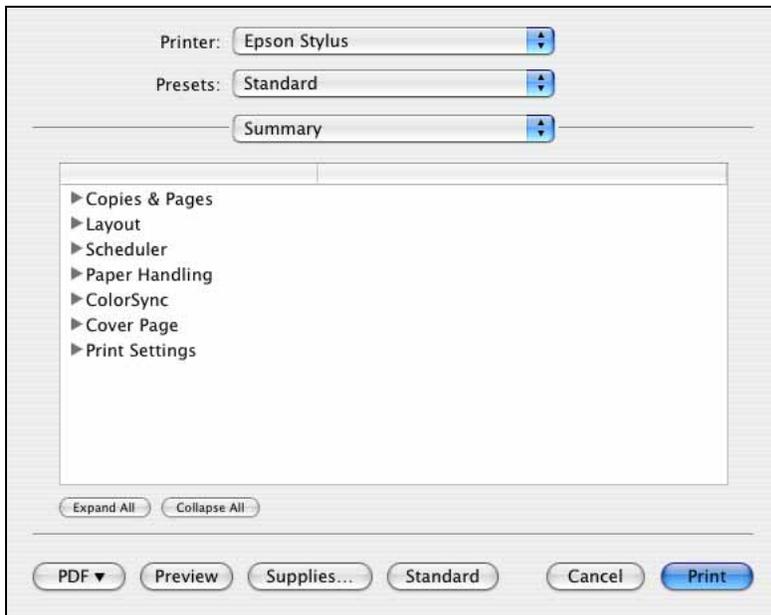
**Note:**

You may see white borders on your printed photo if you use the **Min** setting.

When you're finished, you're ready to print.

### View Print Setting Summary

To see a summary of your settings, select **Summary** from the pop-up menu.

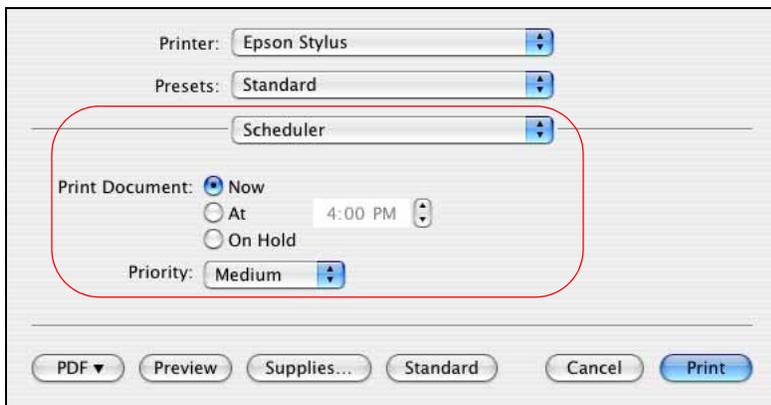


On Mac OS X 10.4, click the arrows to expand summary information for different types of settings, or use the **Expand All** and **Collapse All** buttons to control the types of settings you view.

### Schedule Printing

You can print your documents or photos at specified times or print them according to priorities you set.

1. Select **Scheduler** from the pop-up menu.



2. To print at a specific time, click **At** and enter a time.
3. To hold the document or photo for printing when you later release it, click **On Hold**.
4. To set a priority for printing this document or photo in relation to others you will be printing, select a setting in the **Priority** pop-up menu.

When you're finished, you're ready to print.

## Print Your Document or Photo

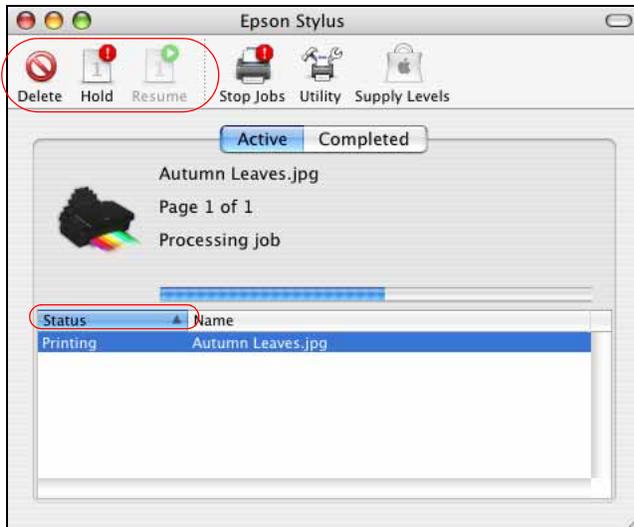
After selecting your print settings, click **Print** to start printing.

During printing, you can check printing status.

## Check Printing Status

During printing, you can view the progress of your print job and control printing.

1. Click your Epson printer icon when it appears in the dock at the bottom of the screen.



2. Select from these options:

- To cancel printing, click the print job and click **Delete**.
- To pause printing, click the print job and click **Hold**.
- To resume printing after pausing it, click a print job marked “Hold” and click **Resume**.

3. When you're finished, close the window to exit the program.

If you see an error during printing, see Solve Problems for solutions.

## Scan to Your Computer

You can scan original documents and photos and save them as digital files on your computer using the Epson Scan program.

Follow the instructions in these sections to scan using Epson Scan:

[Start Epson Scan](#)

[Scan from the Control Panel](#)

[Select a Scan Mode](#)

[Scan Automatically \(Full Auto Mode\)](#)

[Scan in Home Mode \(Semi-Automatic\)](#)

[Scan in Office Mode](#)

[Scan in Professional Mode \(Fully Manual\)](#)

You can also open a [TWAIN-compatible scanning program](#) and scan your images directly into the program window for editing and printing.

Follow the instructions in these sections to perform special scanning tasks:

[Restore Color as You Scan](#)

[Scan to a PDF File](#)

[View and Print Scanned Images](#)

## Start Epson Scan

Before you start Epson Scan, [place your original](#) on the scanner glass. Then start Epson Scan in one of the following ways:

### Note:

If you installed the NX510 Series on a network and are scanning from Mac OS X, you need to [configure network settings](#) for Epson Scan before you can scan over the network.

- **Windows:**  
Double-click the **EPSON Scan** icon on your Windows desktop.
- **Macintosh:**  
Open the **Applications** folder and click the **EPSON Scan** icon.



**Note:**

You can also launch Epson Scan from any TWAIN-compliant application, such as Adobe® Photoshop®.

Now you can select a scan mode.

### Scan From Another Program

Before you start, place your original on the scanner glass.

1. Start the program you want to use for scanning, and select its scanning option. (See your scanning program help for instructions.)

**Note:**

In some programs, you must select your Epson printer as the “source” first. If you see a **Select Source** option, choose it and select your Epson printer.

2. Select your Epson printer. Epson Scan starts automatically.

**Note:**

With Windows Vista or XP, do not choose a **WIA** option for your Epson printer; it will not work correctly.

Now you can select a scan mode.

### Scan from the Control Panel

The NX510 Series allows you to scan an image to your computer, attach it to an e-mail, or save it as a PDF file. Before using this feature, make sure you’ve installed the NX510 Series software and connected it to your computer or network.

Follow the steps in these sections to scan using the control panel:

#### Scan to PC

## Scan to PDF

## Scan to E-mail

Your NX510 Series will automatically select suitable default scan settings. If you want to view or change those settings, see Change Scan Settings.

### **Change Scan Settings**

1. Open Event Manager.
  - **Windows:**  
Click **Start** > **Programs** or **All Programs** > **Epson Software** > **Event Manager**.
  - **Macintosh:**  
Open the **Applications** folder, click **Epson Software**, then click **Event Manager**.
2. Click **Make Job Settings**.
3. Select the job setting that you want to modify from the Edit Job Settings drop-down list.
4. Select job settings as necessary.
5. Click **OK** when you're done selecting settings.

### **Scan to PC**

Before you begin, place your original on the scanner glass.

1. Press the **Scan** button.
2. Press ◀ or ▶ to select **Scan to PC**.



3. Do one of the following:
  - If your printer is connected directly to your computer with a USB cable, select **USB Connection**, then press **OK**.
  - If your printer is connected to a network, press ▲ or ▼ to select your computer name from the list, then press **OK**.

Your scanned image file is shown in Windows Explorer or Macintosh Finder.

### **Scan to PDF**

Before you begin, place your original on the scanner glass.

1. Press the **Scan** button.

2. Press ◀ or ▶ to select **Scan to PDF**.



3. Do one of the following:
  - If your printer is connected directly to your computer with a USB cable, select **USB Connection**, then press **OK**.
  - If your printer is connected to a network, press ▲ or ▼ to select your computer name from the list, then press **OK**.

Your scanned image file is shown in Windows Explorer or Macintosh Finder.

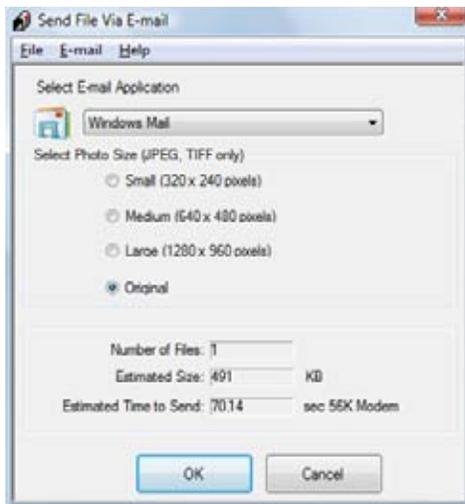
### Scan to E-mail

Before you begin, place your original on the scanner glass.

1. Press the **Scan** button.
2. Press ◀ or ▶ to select **Scan to Email**.



3. Do one of the following:
  - If your printer is connected directly to your computer with a USB cable, select **USB Connection**, then press **OK**.
  - If your printer is connected to a network, press ▲ or ▼ to select your computer name from the list, then press **OK**.
4. When scanning is complete, you see this window:



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

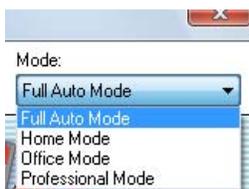
**Note:**

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

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

## Select a Scan Mode

Epson Scan provides a choice of scan modes with different levels of automatic settings. Select the mode from the Mode box:



For instructions on scanning in a mode, click the mode name below:

Full Auto Mode automatically detects the type of original you're scanning, selects settings for it, and saves it at 100% size. Color Restoration and Dust Removal are available.

Home Mode lets you select some settings, and preview and size your scanned image. Color Restoration, Dust Removal, and Backlight Correction options are available.

Office Mode lets you quickly scan text documents and adjust them on a preview screen. Unsharp Mask, Text Enhancement, and Descreening options are available.

Professional Mode lets you manually customize all available settings, and preview and size your scanned image. Unsharp Mask, Descreening, Color Restoration, Backlight Correction, Dust Removal, and Auto Exposure options are available.

## Scan Automatically (Full Auto Mode)

When you scan in Full Auto Mode, Epson Scan automatically saves your scanned file in JPEG format in **Pictures** or **My Pictures** (Windows), or in **Pictures** (Macintosh). You can change these settings, if necessary.

1. Start Epson Scan and make sure **Full Auto Mode** is selected as the Mode setting.



2. If you want to restore faded color in a photo, remove dust marks, or change your scanned file settings, click Customize.
3. Click **Scan**.

Your scanned image file is shown in Windows Explorer or Macintosh Finder.

Now you can view and print the image.

## Scan in Home Mode (Semi-Automatic)

Start Epson Scan and make sure **Home Mode** is selected as the Mode setting.



Follow the instructions in these sections to select settings as necessary for your type of original:

Select Document or Image Type

Select Scan File Destination

Select Scan Quality (Resolution)

Preview

Select Scanned Image Area

Adjust Image Quality

Select Scanned Image Size

Scan and View Image

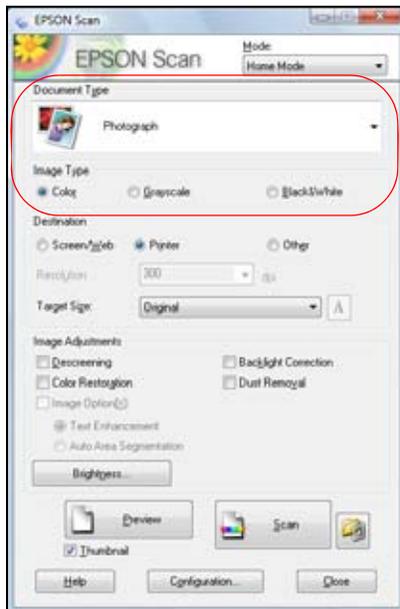
See also:

Scan Automatically (Full Auto Mode)

Scan in Office Mode

Scan in Professional Mode (Fully Manual)

**Select Document or Image Type**



1. Select the type of original you're scanning as the **Document Type**, such as **Photograph** or **Text**.
2. Select whether your original is **Color**, **Grayscale**, or **Black&White** as the **Image Type**.
3. Now select the Destination setting.

### Select Scan File Destination

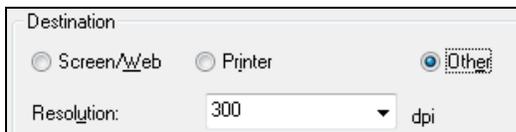


1. Select the way you plan to use your scanned image as the **Destination**. The **Resolution** setting is selected based on the **Destination** you choose.  
**Screen/Web:** For images you will e-mail, view on a computer screen, or post on the web.  
**Printer:** For images you will print or documents you are converting to editable text (OCR).  
**Other:** For images that you want to select a custom resolution for.
2. Now you can customize the resolution or preview your image.

### Select Scan Quality (Resolution)

Resolution is indicated in dpi (dots per inch).

1. You can enter a custom **Resolution** only when you choose **Other** as the Destination setting:



2. Select your **Resolution** based on how and when you will enlarge your image.

#### Determining a scan resolution

Before you select the scan resolution, you should consider whether you will enlarge the images, and if so, whether you will enlarge them as you scan or after you scan. Follow these guidelines:

- **You will not enlarge the images.**  
If you will scan the images at 100% size or smaller and will not enlarge them later, accept the **Resolution** setting selected by Epson Scan.
- **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, accept the **Resolution** setting selected by Epson Scan.
- **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. Increase the resolution by the same amount you will increase the image size. For example, if the resolution is 300 dpi (dots per inch), and you will increase the image size by 200% later, change the **Resolution** setting to 600 dpi.

[DROP DOWN END]

If you are scanning at 100% or reducing the size, select your **Resolution** based on how you will use the scanned image:

**E-mail/view on a computer screen/post on the web:** 96 to 150 dpi

**Print/convert to editable text (OCR):** 300 dpi

**Fax:** 200 dpi

3. Now you can preview your image.

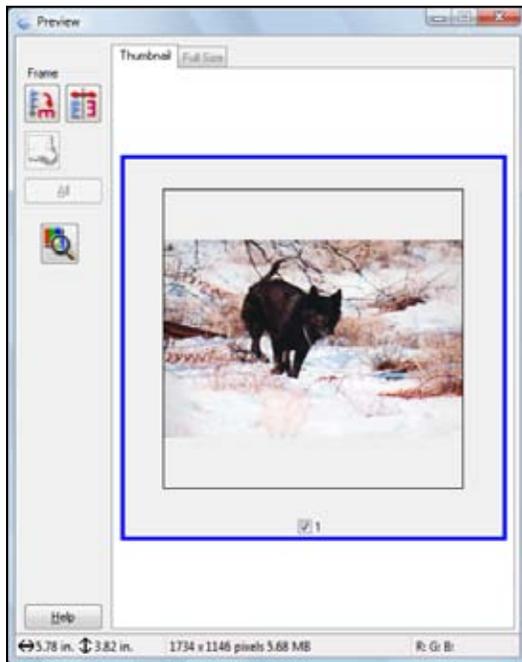
#### **Preview**

There are two types of preview available:

**Thumbnail** displays your previewed images as thumbnails with the scanned image area and exposure automatically selected. If the **Thumbnail** checkbox is checked, clicking the **Preview** button opens a thumbnail preview.

**Normal** displays your previewed images in their entirety so you can select the scanned image area and other settings manually. If the **Thumbnail** checkbox is unchecked, clicking the **Preview** button opens a normal preview.

1. Click the **Preview** button to preview your images in a new Preview window.



2. To rotate or flip the image (thumbnail preview only), click the thumbnail and click the  rotation or  mirroring icon.
3. If desired, you can crop the area you want to scan and select image quality settings.
4. When you're finished, you can select your scan size and scan.

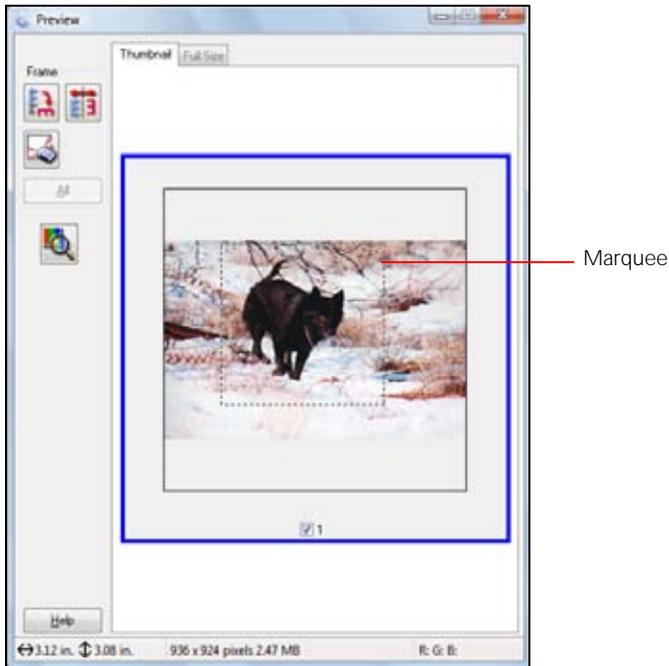
### Select Scanned Image Area

In thumbnail preview, your scanned image area is selected automatically.

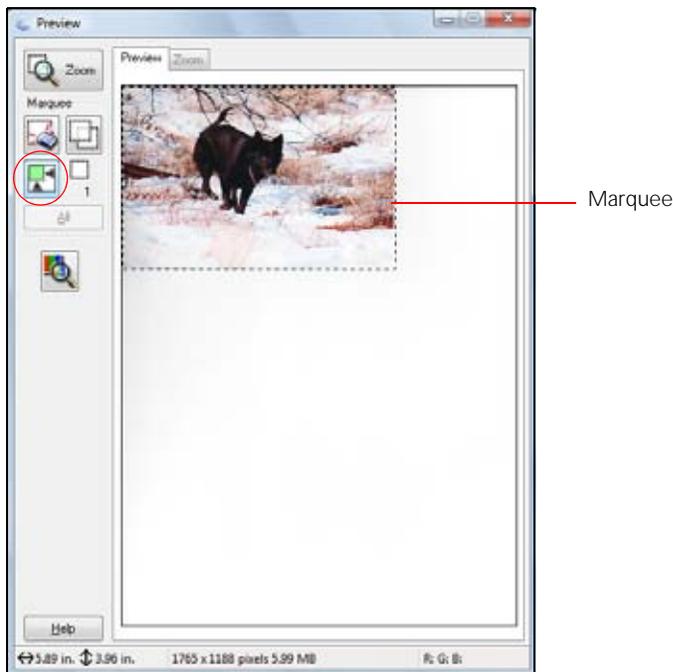
In normal preview, you create the scanned image area by clicking a button.

You can adjust the scanned image area by creating and/or moving the dotted line (marquee) outlining the scan area:

1. **Thumbnail preview:** Create a marquee by placing your cursor in one corner of the desired scan area, clicking, and dragging the cursor to the opposite corner.



**Normal preview:** Click the  auto locate icon to create a marquee.



2. To move a marquee, click inside the marquee and drag it where you want it.
3. To resize a marquee, place the cursor over a marquee edge or corner, click, and drag the edges where you want them.

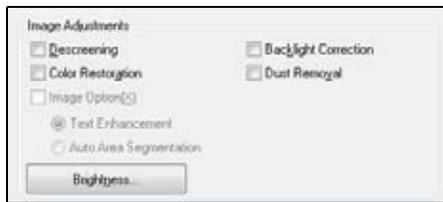
**Tip:**

To retain the marquee width/height proportions, hold the **Shift** key as you resize the marquee.

- 4. **Normal preview:** You can create up to 50 marquees at a time. Click the  copy marquee icon to copy existing marquees, or click the  delete marquee icon to delete the selected marquee.
- 5. If desired, you can select image quality settings.
- 6. When you're finished, you can select your scan size and scan.

**Adjust Image Quality**

You can adjust exposure, brightness, and other image quality settings before you scan to improve your results.



Setting	Description
Descreening	Removes the rippled pattern that can appear in subtly shaded image areas, such as in skin tones. Also improves results when scanning magazine or newspaper images. The results of descreening do not appear in the preview image, only in your scanned image.
Color Restoration	Restores the colors in faded photos automatically.
Backlight Correction	Removes shadows from photos that have too much background light.
Dust Removal	Removes dust marks from your originals automatically.
Text Enhancement	Sharpens the appearance of letters in text documents. (Available only when you select <b>Text/Line Art</b> , <b>Newspaper</b> , or <b>Magazine</b> as the Document Type setting.) Check the Image Option box, then select the setting.
Auto Area Segmentation	Makes grayscale images clearer and text recognition more accurate by separating the text from the graphics. (Available only when you select <b>Text/Line Art</b> , <b>Newspaper</b> , or <b>Magazine</b> as the Document Type setting and <b>Black&amp;White</b> as the Image Type.) Check the Image Option box, then select the setting.

Threshold	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 <b>Black &amp; White</b> as the Image Type setting.) Click the <b>Brightness</b> button to access the setting.
Brightness	Adjusts the overall image lightness and darkness.
Contrast	Adjusts the difference between the light and dark areas of the overall image. Click the <b>Brightness</b> button to access the <b>Contrast</b> setting.

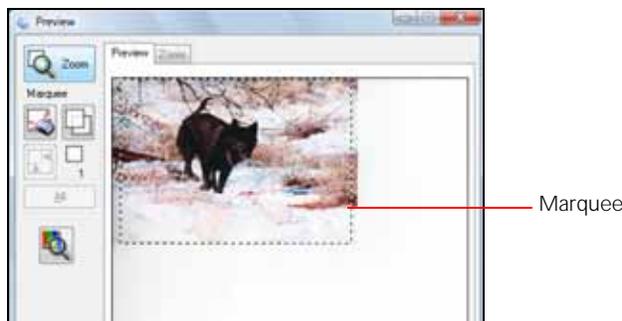
### Select Scanned Image Size

You can scan images at their original size, or reduce or enlarge them as you scan them. You can also select a specific scan size (such as 8 × 10 inch [203 × 254 mm] for photos) so you can crop the image using the correct proportions.

1. Preview your original image.
2. Select the size you want your scanned image to be from the **Target Size** list.



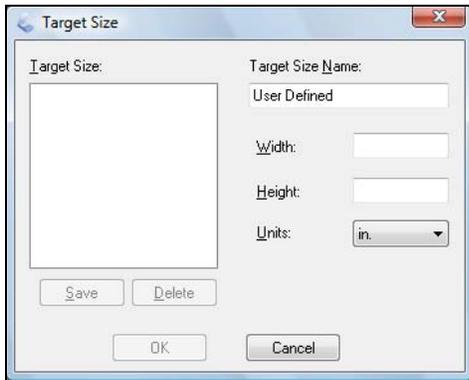
A dotted line (marquee) appears on your preview image proportioned for that size.



**Note:**

If you need to rotate the orientation of the scan area marquee, click the  orientation icon.

3. If you need to create a scanned image size that is not in the **Target Size** list, select **Customize**.

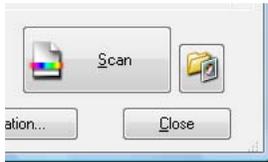


4. Name the custom size, enter the size, click **Save**, and click **OK**. Then create a marquee on the preview image to define the scanned image area. The size is automatically proportioned.
5. When you're finished, you can scan and view your image.

### Scan and View Image

After selecting your scan settings, you are ready to scan and view your scanned images.

1. Click **Scan**.



#### **Note:**

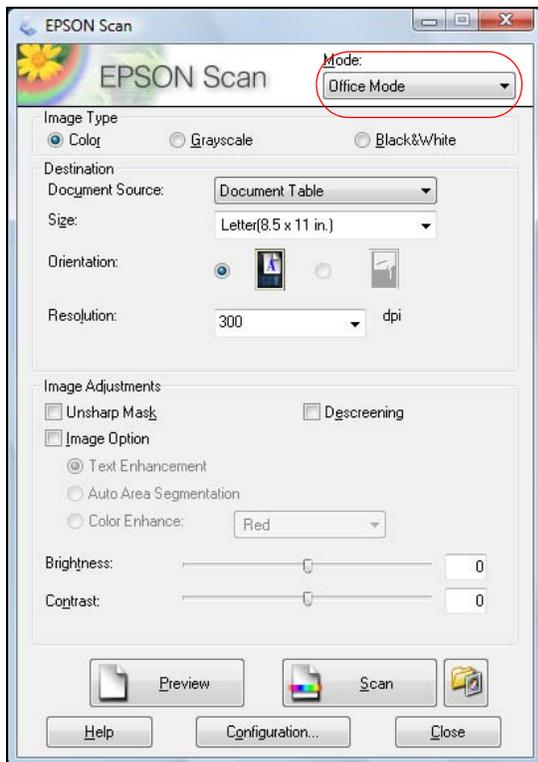
If you started your scan from within a TWAIN-compatible scanning program, your scanned images open in the program window. Click **Close** to exit Epson Scan.

2. Select the scan file settings you want to use from the window that appears.
3. Click **OK**.
4. Your scanned image file is shown in Windows Explorer or the Macintosh Finder.
5. Now you can view and print your scanned images, attach them to an e-mail, or use them however you like.

### Scan in Office Mode

Use Office Mode to quickly select settings for scanning text documents.

1. Start Epson Scan and make sure **Office Mode** is selected as the Mode setting.



2. Select whether your original is **Color**, **Grayscale**, or **Black&White** as the Image Type.
3. Select the **Size** of the originals and their **Orientation** on the scanner glass.
4. Select the desired scanning **Resolution**.

Select a resolution

Resolution is indicated in dpi (dots per inch):



Select your **Resolution** based on how you will use the scanned image:

**E-mail, view on a computer screen, or post on the web:** 96 to 150 dpi

**Print or convert to editable text (OCR):** 300 dpi

**Fax:** 200 dpi

[DROP DOWN END]

5. Click the **Preview** button. Epson Scan previews your document and displays it in the Preview window.
6. If desired, you can draw a marquee (or box) around the area you want to scan in the Preview window.
7. Adjust the image quality, if necessary.
8. Click **Scan** to scan and view the image.

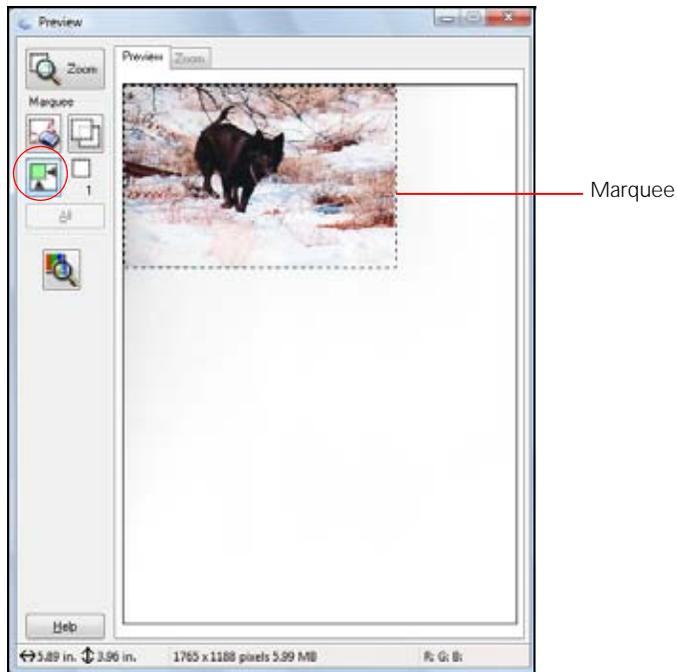
Your scanned image file is shown in Windows Explorer or Macintosh Finder.

Now you can view and print the image.

### Select Scanned Image Area

You can adjust the scanned image area by creating and/or moving the dotted line (marquee) outlining the scan area:

1. Click the  auto locate icon to create a marquee.



2. To move a marquee, click inside the marquee and drag it where you want it.
3. To resize a marquee, place the cursor over a marquee edge or corner, click, and drag the edges where you want them.

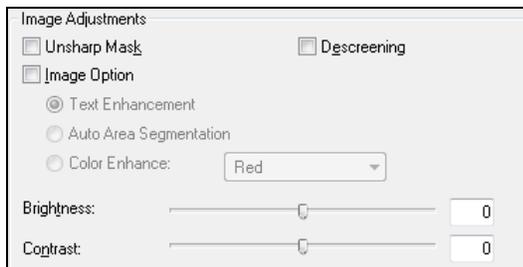
#### Tip:

To retain the marquee width/height proportions, hold the **Shift** key as you resize the marquee.

4. You can create up to 50 marquees at a time. Click the  copy marquee icon to copy existing marquees or click the  delete marquee icon to delete the selected marquee.

### Adjust Image Quality

You can adjust exposure, brightness, and other image quality settings before you scan to improve your results. Before making adjustments, be sure to click the image or marquee for the area you want to adjust.



Setting	Description
Unsharp Mask	Turn on to make the edges in different areas of your image clearer. Turn off to leave softer edges.
Descreening	Removes the rippled pattern that can appear in subtly shaded image areas, such as in skin tones. Also improves results when scanning magazine or newspaper images. The results of descreening do not appear in the preview image, only in your scanned image.
Text Enhancement	Adjusts the level at which the black areas in text and line art are delineated, improving text recognition in OCR programs. Check the <b>Image Option</b> box and then select the setting.
Auto Area Segmentation	Makes grayscale images clearer and text recognition more accurate by separating the text from the graphics. (Available only when you select <b>Black&amp;White</b> as the Image Type.) Check the <b>Image Option</b> box and then select the setting.
Color Enhance	Enhances red, green, or blue shades in the scan. (Available when you select <b>Grayscale</b> or <b>Black&amp;White</b> for the Image Type setting.) Check the <b>Image Option</b> box and then select the setting.
Brightness	Adjusts the overall image lightness and darkness.
Contrast	Adjusts the difference between the light and dark areas of the overall image.

### Scan and View Image

After selecting your scan settings, you're ready to scan and view your scanned images.

1. Click **Scan**.



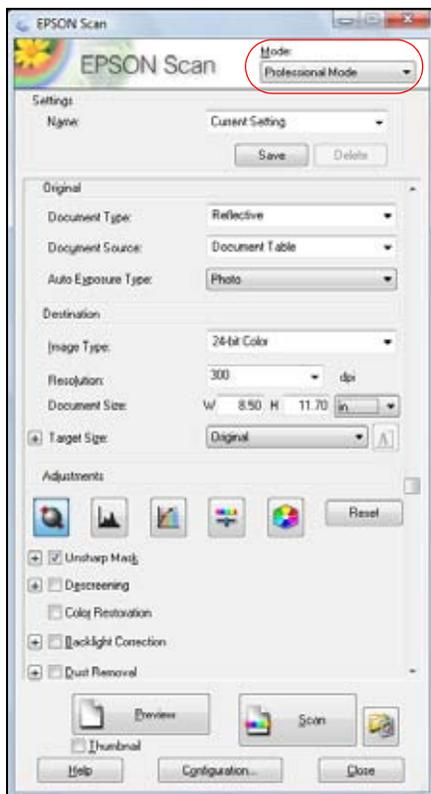
**Note:**

If you started your scan from within a TWAIN-compatible scanning program, your scanned images open in the program window. Click **Close** to exit Epson Scan.

2. Select the scan file settings you want to use from the window that appears.
3. Click **OK**.
4. Your scanned image file is shown in Windows Explorer or Macintosh Finder.
5. Now you can view and print your scanned images, attach them to an e-mail, or use them however you like.

## Scan in Professional Mode (Fully Manual)

Start Epson Scan and make sure **Professional Mode** is selected as the Mode setting.



Follow the instructions in these sections to select settings as necessary for your type of original:

Select Document or Image Type

Select Scan File Destination

Select Scan Quality (Resolution)

Preview

Select Scanned Image Area

## Adjust Image Quality

### Select Scanned Image Size

### Scan and View Image

See also:

### Scan Automatically (Full Auto Mode)

### Scan in Office Mode

### Scan in Home Mode (Semi-Automatic)

## Select Document or Image Type



1. Select the basic type of original you're scanning as the **Document Type**. Select **Reflective** for documents or photos.
2. Select the specific type of original as the **Auto Exposure Type**, such as **Document** or **Photo**.
3. Now select the Destination settings.

## Select Scan File Destination



1. Select the details of your image and how you want to scan it as the **Image Type** setting.
  - **24-bit Color**: for color photos
  - **Color Smoothing**: for color graphics, such as charts or graphs
  - **8-bit Grayscale**: for black-and-white photos
  - **Black & White**: for black text documents or line artThe **Resolution** setting is selected based on the **Image Type** you choose.
2. Now you can customize the resolution or preview your image.

## Select Scan Quality (Resolution)

Resolution is indicated in dpi (dots per inch).

Destination	
Image Type:	24-bit Color
Resolution:	300 dpi

1. Select your **Resolution** based on how and when you will enlarge your image.

#### Determining a Scan Resolution

Before you select the scan resolution, you should consider whether you will enlarge the images, and if so, whether you will enlarge them as you scan or after you scan. Follow these guidelines:

- **You will not enlarge the images.**  
If you will scan the images at 100% size or smaller and will not enlarge them later, accept the **Resolution** setting selected by Epson Scan.
- **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, accept the **Resolution** setting selected by Epson Scan.
- **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. Increase the resolution by the same amount you will increase the image size. For example, if the resolution is 300 dpi (dots per inch), and you will increase the image size by 200% later, change the **Resolution** setting to 600 dpi.

[DROP DOWN END]

If you are scanning at 100% or reducing the size, select your **Resolution** based on how you will use the scanned image:

**E-mail/view on a computer screen/post on the web:** 96 to 150 dpi

**Print/convert to editable text (OCR):** 300 dpi

**Fax:** 200 dpi

2. Now you can preview your image.

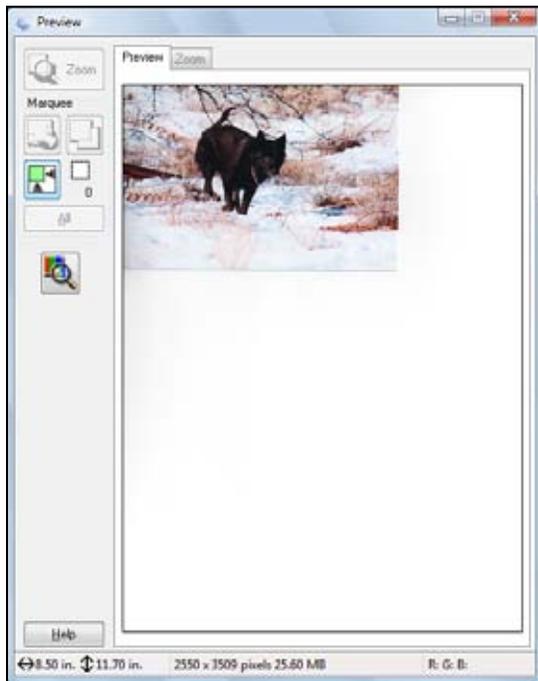
#### **Preview**

There are two types of preview available:

**Thumbnail** displays your previewed images as thumbnails with the scanned image area and exposure automatically selected. If the **Thumbnail** checkbox is checked, clicking the **Preview** button opens a thumbnail preview.

**Normal** displays your previewed images in their entirety so you can select the scanned image area and other settings manually. If the **Thumbnail** checkbox is unchecked, clicking the **Preview** button opens a normal preview.

1. Click the **Preview** button to preview your images in a new Preview window.



2. To zoom in on your preview image, click the  auto locate icon and click **Zoom**.
3. To rotate or flip the image (thumbnail preview only), click the thumbnail and click the  rotation or  mirroring icon.
4. Now you can select the area you want to scan and select image quality settings.
5. When you're finished, you can select your scan size and scan.

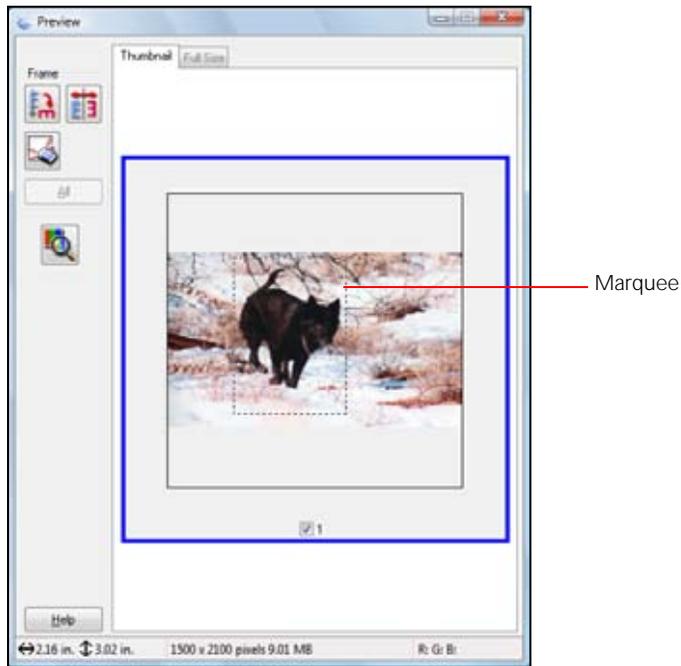
### Select Scanned Image Area

In thumbnail preview, your scanned image area is selected automatically.

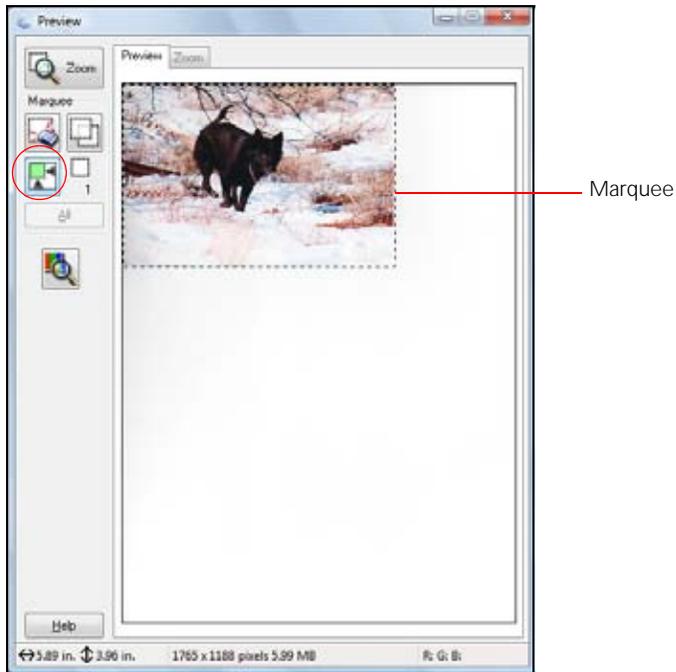
In normal preview, you create the scanned image area by clicking a button.

You can adjust the scanned image area by creating and/or moving the dotted line (marquee) outlining the scan area:

1. **Thumbnail preview:** Create a marquee by placing your cursor in one corner of the desired scan area, clicking, and dragging the cursor to the opposite corner.



**Normal preview:** Click the  auto locate icon to create a marquee.



2. To move a marquee, click inside the marquee and drag it where you want it.
3. To resize a marquee, place the cursor over a marquee edge or corner, click, and drag the edges where you want them.

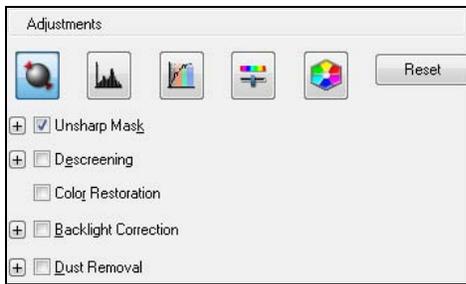
**Tip:**

To retain the marquee width/height proportions, hold the **Shift** key as you resize the marquee.

4. **Normal preview:** You can create up to 50 marquees at a time, click the  copy marquee icon to copy existing marquees, or click the  delete marquee icon to delete the selected marquee.
5. If desired, you can select image quality settings.
6. When you're finished, you can select your scan size and scan.

**Adjust Image Quality**

You can adjust exposure, brightness, and other image quality settings before you scan to improve your results. Scroll down to the Adjustments area to view all the options. Click the + icon next to a setting to change the level of adjustment.



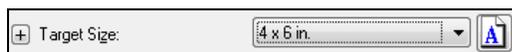
Setting	Description
Unsharp Mask	Turn on to make the edges of image areas clearer for an overall sharper image. Turn off to leave softer edges.
Descreening	Removes the rippled pattern that can appear in subtly shaded image areas, such as in skin tones. Also improves results when scanning magazine or newspaper images. The results of descreening do not appear in the preview image, only in your scanned image.
Color Restoration	Restores the colors in faded photos automatically.
Backlight Correction	Removes shadows from photos that have too much background light.
Dust Removal	Removes dust marks from your originals automatically.
Auto Exposure	Click the  auto exposure button. To turn it on continuously, click the <b>Configuration</b> button, click the <b>Color</b> tab, and select <b>Continuous auto exposure</b> . You can adjust the level of exposure adjustment using the slider.

Histogram	Provides a graphical interface for adjusting highlight, shadow, and gamma levels individually. For advanced users only. Click the  histogram adjustment button to use the settings.
Tone Correction	Provides a graphical interface for adjusting tone levels individually. For advanced users only. Click the  tone correction button to use the settings.
Brightness	Adjusts the overall image lightness and darkness. Click the  image adjustment button to access the setting.
Contrast	Adjusts the difference between the light and dark areas of the overall image. Click the  image adjustment button to access the setting.
Saturation	Adjusts the density of colors in the overall image. Click the  image adjustment button to access the setting.
Color Balance	Adjusts the balance of red, green, and blue colors in the overall image. Click the  image adjustment button to access the setting.
Color Palette	Provides a graphical interface for adjusting mid-tone levels, such as skin tones, without affecting the highlight and shadow areas of the image. For advanced users only. Click the  color palette button to use the settings.
Threshold	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 <b>Black &amp; White</b> as the Image Type setting.)

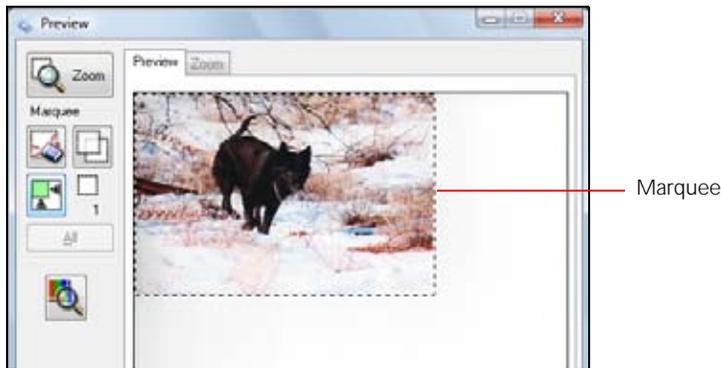
### Select Scanned Image Size

You can scan images at their original size, or reduce or enlarge them as you scan them. You can also select a specific scan size (such as 8 × 10 inch [203 × 254 mm] for photos) so you can crop the image using the correct proportions.

1. Preview your original image.
2. Select the size you want your scanned image to be from the **Target Size** list.



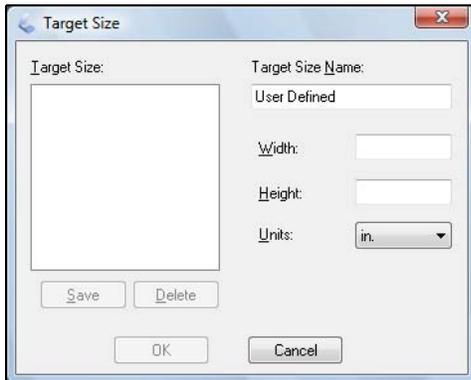
A dotted line (marquee) appears on your preview image proportioned for that size.



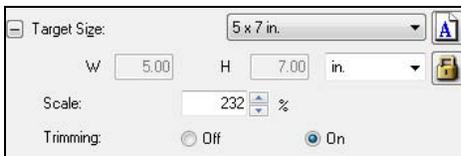
**Note:**

If you need to rotate the orientation of the scan area marquee, click the  orientation icon.

3. If you need to create a scanned image size that is not in the **Target Size** list, select **Customize**.



4. Name the custom size, enter the size, click **Save**, and click **OK**. Then create a marquee on the preview image to define the scanned image area. The size is automatically proportioned.
5. For additional sizing tools, click the + (Windows) or > (Macintosh) icon to open the tools.



- **Scale:** reduces or enlarges your image by the percentage you enter
- **Trimming:** turns automatic image cropping on or off (see Epson Scan Help for details)
-  unlock icon: unlocks the width/height proportions of the scanned image size so you can adjust it without constraint

6. When you're finished, you can scan and view your image.

## Scan and View Image

After selecting your scan settings, you are ready to scan and view your scanned images.

1. Click **Scan**.



### **Note:**

If you started your scan from within a TWAIN-compatible scanning program, your scanned images open in the program window. Click **Close** to exit Epson Scan.

2. Select the scan file settings you want to use from the window that appears.
3. Click **OK**.
4. Your scanned image file is shown in Windows Explorer or Macintosh Finder.
5. Now you can view and print your scanned images, attach them to an e-mail, and use them however you like.

## Restore Color as You Scan

You can restore the colors in faded photos as you scan them using the Color Restoration feature.

1. Place your faded original photo on the scanner glass.
2. Start the Epson Scan program or open it from another TWAIN-compliant scanning program.
3. Select the scan mode you want to use.
4. Follow the instructions in one of these sections for the scan mode you selected:

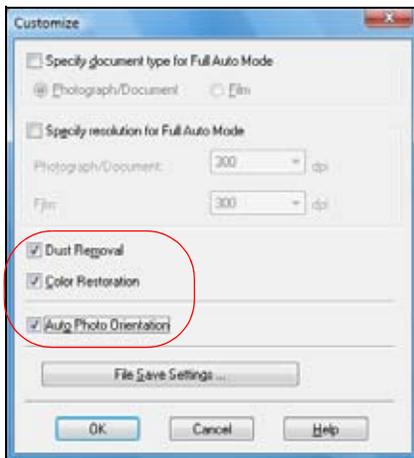
Full Auto Mode

Home Mode

Professional Mode

### **Full Auto Mode**

1. Click **Customize**.



2. Click the **Color Restoration** checkbox.
3. If you need to remove dust marks from your original document or photo as you scan, click the **Dust Removal** checkbox.
4. Click the **Auto Photo Orientation** checkbox to have Epson Scan check the preview image for faces, the sky, and other features, and then correctly rotate the photo when it's scanned. If your particular photo is not oriented correctly using this feature, turn off **Auto Photo Orientation** and try again.
5. Epson Scan automatically saves your scanned file in JPEG format in **Pictures** or **My Pictures** (Windows), or in **Pictures** (Macintosh). If you want to select different scan file settings, click the **File Save Settings** button.
6. Click **OK** to close the Customize window.
7. Click **Scan**.

Your color-restored scanned image file is shown in Windows Explorer or Macintosh Finder.

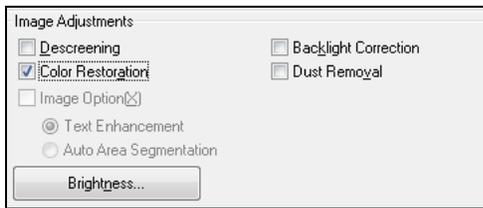
**Note:**

If you started your scan from within a TWAIN-compatible scanning program, your scanned images open in the program window. Click **Close** to exit Epson Scan.

Now you can view and print the image.

**Home Mode**

1. Select the type of original you're scanning as the Document Type and Image Type.
2. Select the way you plan to use your scanned image as the Destination.
3. Preview your image.
4. If desired, you can crop the area you want to scan and select your scan size.
5. Click the **Color Restoration** checkbox.



**Note:**

You can also select other image quality settings before you scan.

6. Click **Scan**.
7. Select the scan file settings you want to use from the window that appears.
8. Click **OK**.

Your color-restored scanned image file is shown in Windows Explorer or Macintosh Finder.

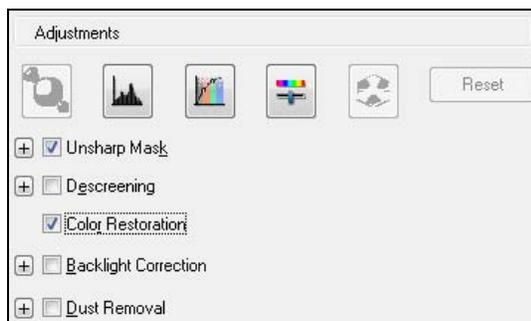
**Note:**

If you started your scan from within a TWAIN-compatible scanning program, your scanned images open in the program window. Click **Close** to exit Epson Scan.

Now you can view and print the image.

**Professional Mode**

1. Select the type of original you're scanning as the Document Type and Auto Exposure Type.
2. Select the way you plan to use your scanned image as the Destination.
3. Preview your image.
4. If desired, you can crop the area you want to scan and select your scan size.
5. Scroll down to the Adjustments area and click the **Color Restoration** checkbox.



**Note:**

You can also select other image quality settings before you scan.

6. Click **Scan**.
7. Select the scan file settings you want to use from the window that appears.
8. Click **OK**.

Your color-restored scanned image file is shown in Windows Explorer or Macintosh Finder.

**Note:**

If you started your scan from within a TWAIN-compatible scanning program, your scanned images open in the program window. Click **Close** to exit Epson Scan.

Now you can view and print the image.

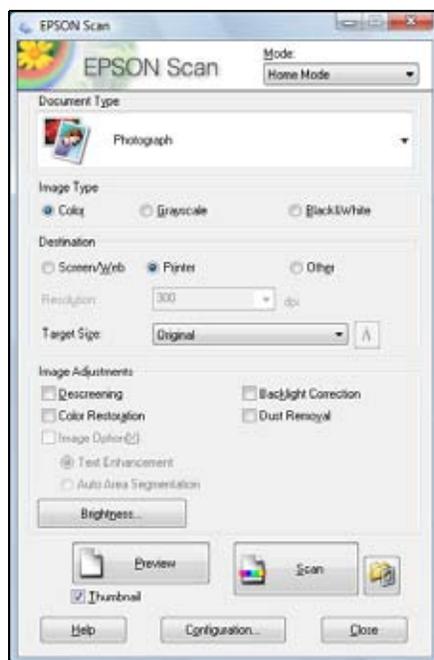
## Scan to a PDF File

You can scan a multi-page document and save it in one PDF (Portable Document Format) file on your computer.

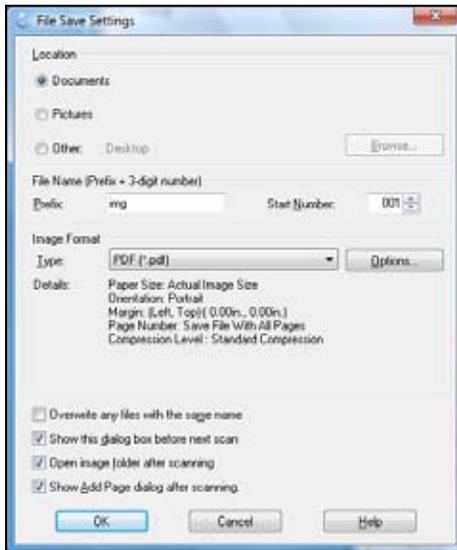
**Note:**

You can scan a single page to PDF using Full Auto Mode. Make sure you click **Customize**, click **File Save Settings**, and select **PDF** as the file type.

1. Place the first page of your original document on the scanner glass.
2. Start the Epson Scan program.
3. Select Home Mode, Office Mode, or Professional Mode as the Mode setting.

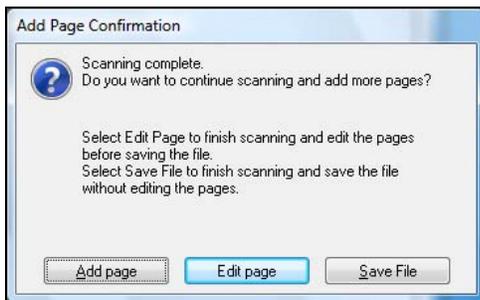


4. Select your Document Type or Image Type and Destination settings, then preview your image.
5. Click **Scan**.
6. In the scan file settings window, select a folder for your file and select **PDF** as the file Type setting.



7. Click **OK**.

Your first page is scanned and you see this window:



8. If you're scanning only one page, click **Save File**.

If you're scanning a multi-page document, click **Add Page**. Then replace the first page on the scanner glass with the second page and click **Scan** again, repeating as necessary for each page. When you're finished, click **Save File**.

If you want to delete or reorder any of the pages, click **Edit Page**, then use the icons on the bottom of the editing window. (Click **Help** for details.) When you're finished, click **Save File**.

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

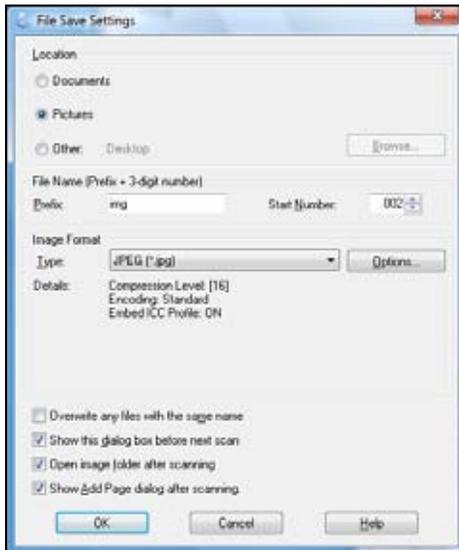
Now you can view and print the scanned document in Adobe<sup>®</sup> Acrobat<sup>®</sup> or Reader<sup>®</sup>, attach it to an e-mail, and use it however you like.

## Choose Scan File Settings

Select the location, name, and format of the scanned image file you want to save.

1. Select the folder in which you want to save your scanned image, either **My Documents** or **My Pictures** (some Windows versions), or **Documents** or **Pictures** (some Windows versions and Macintosh).

If you want to select another folder, click **Other**, then click **Browse** (Windows) or **Choose** (Macintosh) and select the folder. To save your image on the desktop, simply click **Other**.



2. Specify a file name prefix. A 3-digit number is automatically added to the file name, but you can change the Start Number if you like.
3. Select a file format as described in the following table. Depending on the format, the Options button may be available for making detailed settings.

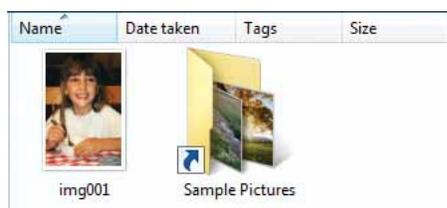
<b>Format (File Extension)</b>	<b>Explanation</b>
BITMAP (*.BMP)	A standard image file format for most Windows programs.
JPEG (*.JPG)	The JPEG format lets you highly compress image data. However, the higher the compression, the lower the image quality. The TIFF format is recommended when modification and retouching are required.
Multi-TIFF (*.TIF)	A TIFF format where multiple pages are saved to the same file and you can edit the images using a program that supports it.
PDF (*.PDF)	A document format that can be read on both Windows and Macintosh systems using Adobe Reader or Acrobat. Multi-page documents can be saved as one PDF file.
PICT (*.PCT)	A standard image file format for most Macintosh programs.

PRINT Image Matching II (*.JPG or *.TIF)	File formats that include Epson PRINT Image Matching® II data for enhanced quality and a wider color range (does not affect the way the image displays on the screen).
TIFF (*.TIF)	A file format created for exchanging data between many programs, such as graphic and DTP software.

4. The checkboxes at the bottom of the window give you these options:
  - **Overwrite any files with the same name**  
Select to overwrite previous files with the same names.
  - **Show this dialog box before next scan**  
Select to have the File Save Settings window appear automatically before you scan.
  - **Open image folder after scanning**  
Select to have Windows Explorer or Macintosh Finder automatically open to the folder where your scanned image is saved after scanning.
  - **Show Add Page dialog after scanning**  
If you are scanning a multi-page document using the PDF or Multi-Tiff format, select to display a prompt for scanning additional pages after the first page is scanned.
5. Click **OK**. Epson Scan starts scanning.

## View and Print Scanned Images

When you finish scanning images from Epson Scan, you see the scanned file in the Windows Explorer or Macintosh Finder window.



Follow these instructions to view the image and print it on your Epson printer:

1. Double-click the scanned file thumbnail or name.  
The scanned image opens in the program on your computer assigned to the scanned file type, such as Windows Vista Photo Gallery for JPG images or Acrobat Reader for PDF images.  
**Note:**  
If you want to print from a specific program that supports the file type, you can also open the program and select the file from a program menu.
2. Modify the file as necessary in your program.
3. When you're ready to print, load paper, and follow the instructions in one of these sections:  
Windows Printing

Macintosh Printing (Mac OS X 10.5)

Macintosh Printing (Mac OS X 10.3 and 10.4)

**Note:**

Also check the Help utility in your printing program for additional printing instructions.



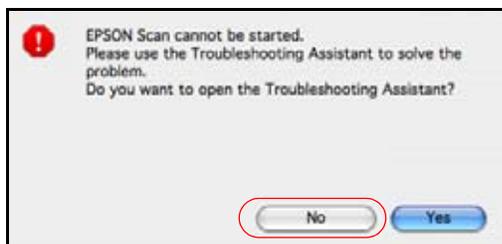
## Use Your Printer on a Network

To use your Epson Stylus NX Series on a network, follow the instructions in the printed network guide to install your printer software, and set up network printing.

### Configure Epson Scan (Mac OS X)

Before you can scan over the network in Mac OS X, you need to configure network settings for Epson Scan.

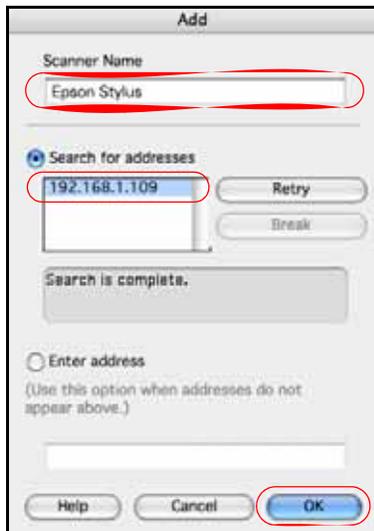
1. Open the Mac OS X **Applications** folder.
2. Open the **Utilities** folder and double-click **EPSON Scan Settings**.
3. This screen appears twice. Click **No** both times it appears.



4. Select **Network** as the **Connection** setting.



5. Click **Add**. You see this screen:



6. To rename the scanner, enter a different name for the Scanner Name.
7. Select the IP address that appears in the list.

**Note:**

If more than one IP address appears, you can verify your product's IP address from the LCD screen. Press the **Setup** button, select **Network settings**, and select **Confirm Network Settings**. Then select the IP address that matches the one on the LCD screen.

8. Click **OK**.
9. Click **Close**.

Now you can scan to your computer.

## Access a Memory Card (Mac OS X)

If you insert a memory card, you will need to connect to the printer to access your memory card over the network.

1. Load a few sheets of plain letter- or A4-size paper.
2. Press the **Setup** button.
3. Press ◀ or ▶ to select **Network Settings**.



4. Press **OK**.
5. Press ▲ or ▼ to select **Confirm Settings** and press **OK**.
6. Write down the Printer Name, for example, **EPSON17AOE7**.
7. From the Mac OS X desktop, select **Go**, then select **Connect to Server**.
8. In the address field, type **smb://PRINTERNAME** (where PRINTERNAME is the name you wrote down in step 6).
9. Click **Connect**.
10. When you see the next screen, click **OK**.

A MEMORYCARD window appears on your screen. If you close the window, you will need to repeat these steps to access the memory card.

Now you can transfer files to/from a memory card.



# Transfer Files To/From a Memory Card

You can transfer files to and from your memory card and computer using your Epson printer.

Follow the instructions in these sections to transfer files to or from a memory card:

[Transfer Files From a Memory Card to Your Computer](#)

[Transfer Files From Your Computer to a Memory Card](#)

See also:

[Insert Memory Card](#)

## Transfer Files From a Memory Card to Your Computer

Before you transfer files, make sure you installed your software and connected your Epson printer to your computer; see the *Start Here* sheet for instructions.

1. [Insert a memory card](#) in your printer's memory card slot.
2. Access the memory card files from your computer:

### **Windows:**

Click **Start** or , then click **My Computer** or **Computer**. Double-click the removable disk icon for the memory card.

### **Macintosh:**

Double-click the removable disk icon for the memory card.

If you installed the NX510 Series on a network, you need to [connect to the network card slots](#) before you can access them.

3. Open the folder on your computer in which you want to store your photo files.
4. Select the photos in the removable disk folder and drag them to the folder on your computer.
5. Before you remove the memory card or disconnect or turn off your Epson printer, [prepare the card for removal](#).

See also:

[Transfer Files From Your Computer to a Memory Card](#)

## Transfer Files From Your Computer to a Memory Card

Before you transfer files, make sure you installed your software and connected your Epson printer to your computer; see the *Start Here* sheet for instructions.

1. Make sure the write protect switch on your memory card is set to allow writing to the card.
2. [Insert a memory card](#) in your printer's memory card slot.
3. Access the memory card files from your computer:

### **Windows:**

Click **Start** or , then click **My Computer** or **Computer**. Double-click the removable disk icon for the memory card.

**Macintosh:**

Double-click the removable disk icon for the memory card.

If you installed the NX510 Series on a network, you need to connect to the network card slots before you can access them.

4. Open the folder on your computer where the photo files you want to transfer are stored.
5. Select the photos in the folder on your computer and drag them to the removable disk folder.
6. Before you remove the memory card or disconnect or turn off your Epson printer, prepare the card for removal.

See also:

[Transfer Files From a Memory Card to Your Computer](#)

## Print From a Connected Camera

If you have a digital camera that supports PictBridge™ or USB DIRECT-PRINT™ printing, you can connect it to your printer and print your photos directly from the camera. Check your camera manual to see if it is compatible.

Your photos must be JPEG format and sized from 80 × 80 to 9200 × 9200 pixels.

Follow the instructions in these sections to print directly from a digital camera:

### Connect the Camera

### Print Photos From the Camera

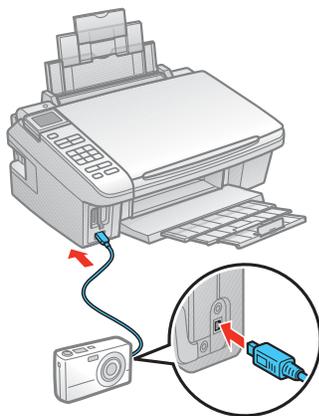
#### **Note:**

Epson cannot guarantee the compatibility of any cameras. Some combinations of paper type, size, and layout may not be supported, depending on your camera and printer settings.

## Connect the Camera

Before you connect your camera, make sure your Epson printer is turned on, but not printing.

1. Remove any memory cards from the slots.
2. Connect the USB cable that came with your camera to the USB port on the front of your Epson printer.



Now you can get ready to print photos from your camera.

## Print Photos From the Camera

Once you have connected your camera, you can load paper and print your photos.

1. Load the paper on which you want to print your photos.
2. Press **Setup**.
3. Press ◀ or ▶ to select **PictBridge Setup**, then press **OK**.



4. Press ► to change any of the print settings on the screen.

PictBridge Setup Print Settings

- To change the paper type, select **Paper Type** and choose the type of paper you loaded.

Paper type	Paper Type setting
Epson Premium Photo Paper Glossy	Prem. Glossy
Epson Premium Photo Paper Semi-gloss	
Epson Ultra Premium Photo Paper Glossy	Ultra Glossy
Epson Photo Paper Glossy	Glossy
Plain paper	Plain Paper
Epson Bright White Paper	
Epson Presentation Paper Matte	
Epson Premium Presentation Paper Matte	Matte

- To change the paper size, select **Paper Size** and choose the size of paper you loaded.

**Note:**

**Paper Size** options depend on the **Paper Type** setting you choose.

- To change the layout, select **Layout** and choose **With Border** to leave a small margin around the image or select **Borderless** to expand the image all the way to the edge of the paper (slight cropping may occur).
- To change the print quality if you have selected **Plain Paper**, choose **Quality** and select **Standard** or **Best**.

**Note:**

**Standard** is the default **Quality** setting for photo paper.

- To print the date on your photos and select the format for it, select **Date** and choose the format you want.

- To slow down printing to improve print quality, select **Bidirectional** and choose **Off** (choose **On** for faster print speed).
- To adjust the amount of image expansion when printing borderless photos, select **Expansion** and choose **Standard, Medium, or Minimum**.

**Note:**

You may see white borders on your printed photo if you use the **Min** setting.

[DROP DOWN END]

5. Press **OK**.
6. Turn on your camera.
7. Follow the instructions that came with your camera to select your photos and settings, and print them.

When you finish printing, turn off your camera and disconnect it from the USB port on your printer.



## Replace Ink Cartridges

Your Epson printer and its software will let you know when an ink cartridge is low or expended.

If an ink cartridge is expended, you see a message on your printer's LCD display screen; you must replace it to be able to print.



### Warning:

Keep ink cartridges out of the reach of children and do not drink the ink.

### Note:

You cannot print or copy when an ink cartridge is expended even if the other cartridges are not expended. Replace any expended cartridges before printing or copying. You can still scan and view photos on the LCD display screen.

With Windows, when black ink is low and there is more color ink than black ink, you will see a message when you print from your computer. You can select to save black ink by using a mixture of colors to create black. The message only appears if you select **Plain Paper/Bright White Paper** as the paper Type and **Text** as the Quality Option setting.

When an installed ink cartridge is more than six months old, you may need to replace it if your printouts do not look their best, even after cleaning and aligning the print head.

Follow the instructions in these sections to check and replace your ink cartridges:

[Check Ink Status From Your Printer](#)

[Check Ink Status From Your Computer](#)

[Purchase Epson Cartridges](#)

[Remove and Install Cartridges](#)

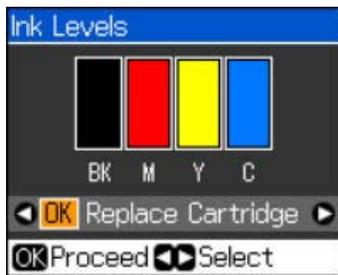
## Check Ink Status From Your Printer

You can check the ink cartridge status using the LCD display screen on your Epson printer.

### Note:

If an ink cartridge is expended, check the status of the other cartridges using your Windows or Macintosh software.

1. Press **Setup**.
2. Press ◀ or ▶ to select **Ink Levels**, then press **OK**.



A cartridge marked with  is getting low on ink. Follow the on-screen instructions to replace the cartridge, if necessary.

3. Press **Back** as necessary to return to the main screen.

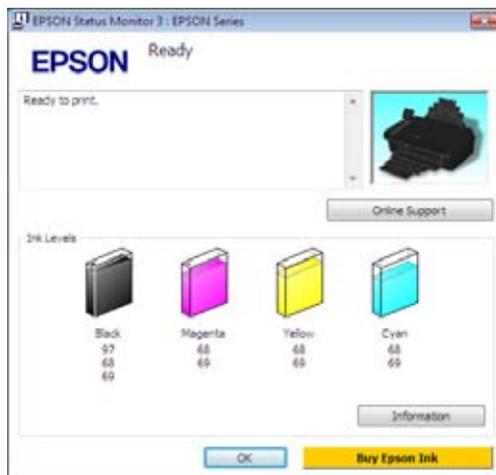
You can also check the ink cartridge status using your Windows or Macintosh software. If one of the screens shown indicate that a cartridge is expended, replace the cartridge.

## Check Ink Status From Your Computer

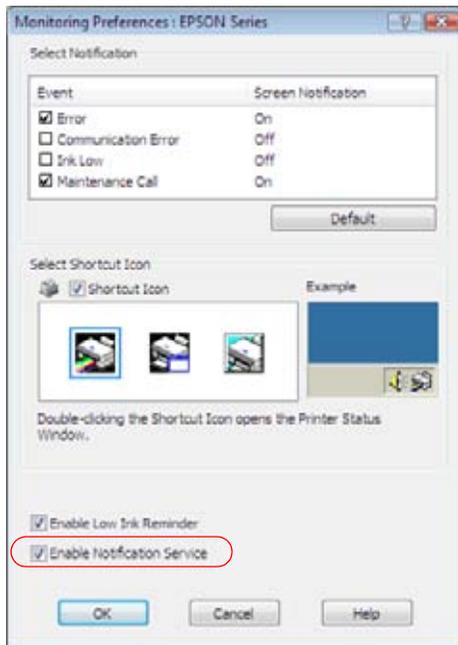
You can check the ink cartridge status using your Windows or Macintosh software. If one of the screens indicates that a cartridge is expended, replace the cartridge

### Windows

Double-click the  printer icon in the bottom right corner of your screen (the taskbar).



A window may also appear on your computer screen when you try to print when ink is low. This window can optionally display ink offers and other updates from Epson. To disable checking for ink offers or updates from Epson, right-click the  printer icon in the bottom-right corner of your screen and select **Monitoring Preferences**. Then click the checkbox at the bottom of the screen to deselect it.



## Macintosh

1. Open the **Applications** folder on your hard drive.
2. Open the **EPSON Printer Utility3**.
3. Select your Epson printer and click **OK**.
4. Select **EPSON StatusMonitor**.

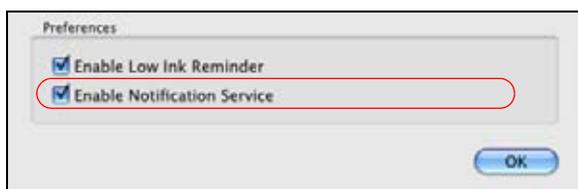


You may also see this screen the first time you try to print when ink is low (if your computer is connected to the Internet):



Click **Accept** (to enable online offers and updates from Epson) or **Decline** to continue.

If you click Accept, you can still disable this feature at a later time, if you choose. Open the **EPSON Low Ink Reminder** menu when the Low Ink Reminder screen is displayed, select **Preferences**, and click the **Enable Notification Service** checkbox to deselect it.



## Purchase Epson Cartridges

Purchase genuine Epson cartridges and use them within six months of installing them and before the expiration date on the cartridge box.

You can purchase genuine Epson ink and paper at Epson Supplies Central<sup>SM</sup> at [www.epson.com/ink3](http://www.epson.com/ink3) (U.S. sales) or [www.epson.ca](http://www.epson.ca) (Canadian sales). You can also purchase supplies from an Epson authorized reseller. To find the nearest one, call 800-GO-EPSON (800-463-7766).

When you purchase new ink, use the following Epson ink cartridge numbers:

Ink color	Standard-capacity	High-capacity	Extra High-capacity
Black	69	68	97
Cyan	69	68	—
Magenta	69	68	—
Yellow	69	68	—

### Note:

Leave your old cartridges in your Epson printer until you are ready to replace them to prevent the print head nozzles from drying out.

We recommend that you use genuine Epson cartridges and do not refill them. The use of other products may affect your print quality and could result in printer damage.

Yields vary considerably based on images printed, print settings, paper type, frequency of use, and temperature. For print quality, a variable amount of ink remains in the cartridge after the “replace cartridge” indicator comes on. Your printer ships with full cartridges and part of the ink from the first cartridges is used for priming the printer.

For best printing results, use up a cartridge within six months of opening the package.

Store ink cartridges in a cool, dark place. If you bring them inside from out in the cold, allow them to warm up to room temperature for at least 3 hours before using them.

## Remove and Install Cartridges

Be sure you have your replacement cartridges handy before you begin. You must install new cartridges immediately after removing the old ones.

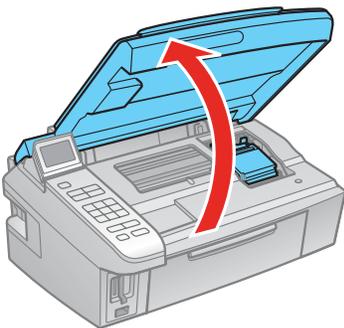
### Caution:

Do not open ink cartridge packages until you are ready to install the ink. Cartridges are vacuum packed to maintain reliability.

1. Turn on your Epson printer.
2. If a cartridge is expended, you see a message on the printer’s LCD display screen. The icon on the screen indicates which color to replace. Press **OK**.

If you’re replacing a cartridge before you see a message on the printer’s LCD display screen, press **Setup**, press ◀ or ▶ to select **Maintenance**, and press **OK**. Then select **Change Ink Cartridge** and press **OK**.

3. Open the scanner.



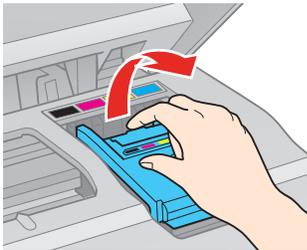
### Note:

Do not touch the white cable inside your printer.

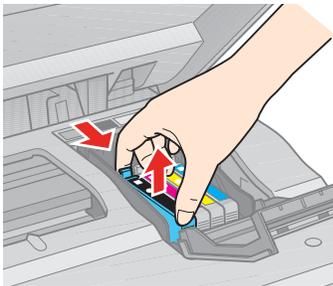
Do not open the ink cartridge cover while the print head is moving.



4. Open the cartridge cover.



5. Squeeze the tab on the cartridge and lift the cartridge straight up to remove it. Dispose of it carefully. Do not take the used cartridge apart or try to refill it.



**Warning:**

If ink gets on your hands, wash them thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water. Keep ink cartridges out of the reach of children.

6. Before opening the new cartridge package, shake it four or five times. (Do not shake a cartridge after opening the package; ink may leak.)



7. Remove the cartridge from the package, but be careful not to touch the green chip on the cartridge.



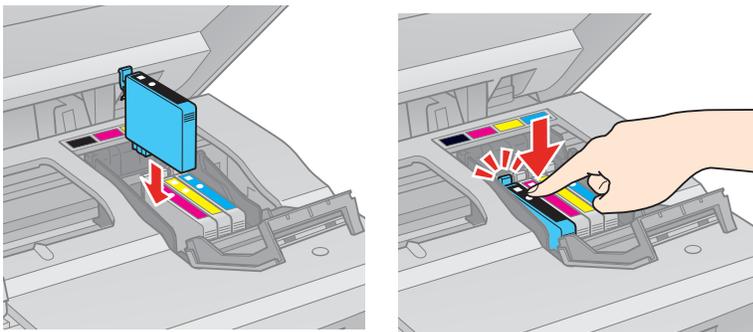
8. Remove the yellow tape from the bottom of the cartridge.

**Caution:**

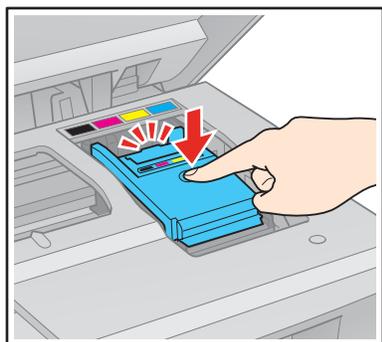
Do not remove any other labels or seals, or ink will leak.



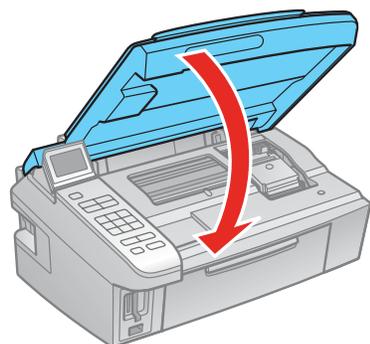
9. Insert the new cartridge into the holder and push it down until it clicks into place.



10. Once you replace all the necessary cartridges, close the cartridge cover and push it down until it clicks into place.



11. Lower the scanner.



12. Press **OK** to begin charging the ink. This takes about 2 minutes.

When you see a completion message on the LCD display screen, ink charging is finished.

If you continue to see an ink replacement message on the LCD display screen, Press **Start** **OK** and press down all the cartridges securely. Then press **OK** again.

**Note:**

If you replaced a cartridge while copying a document or photo, cancel printing and make sure your original is still placed correctly on the document table. Then copy your original again.

**Caution:**

Never turn off your Epson printer while ink is charging or you'll waste ink.

If you remove an ink cartridge for later use, protect the ink supply area from dirt and dust and store it in the same environment as your Epson printer with the label facing upward. Note that there is a valve in the ink supply port, making covers or plugs unnecessary, but care is needed to prevent the ink from staining items that the cartridge touches. Do not touch the ink cartridge ink supply port or surrounding area, and do not store the cartridge upside down.

If you remove a low or expended ink cartridge, you cannot reinstall and use the cartridge.

## Adjust Print Quality

If your print quality declines, you may need to run a utility to clean or align the print head.

Clean the Print Head

Align the Print Head

If running these utilities does not solve the problem, you may need to replace the ink cartridges.

If you see ink on the back of a printout, you may need to clean the paper path.

## Clean the Print Head

If your printouts become too light, or you see dark or light bands across them, you may need to clean the print head nozzles. Cleaning uses ink, so clean the nozzles only if print quality declines.

You can check for clogged nozzles before you clean them so you don't clean them unnecessarily.

### Note:

You cannot clean the print head if an ink cartridge is expended, and may not be able to clean it when a cartridge is low. You must replace the cartridge first.

Follow the instructions in these sections to check your print head nozzles and clean them:

Check the Print Head Nozzles

Clean the Print Head Nozzles

## Check the Print Head Nozzles

You can print a nozzle check pattern to check for clogged nozzles using your Epson printer's control panel or your software. See these sections below:

From the Control Panel

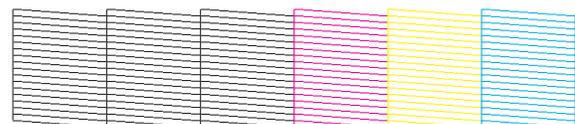
From the Computer

### *From the Control Panel*

1. Load a few sheets of plain paper in the sheet feeder.
2. Press **Setup**.
3. Press ◀ or ▶ to select **Maintenance**, then press **OK**.
4. Select **Nozzle Check** and press **OK**.
5. Press ◊ **Start**.
6. Check the nozzle check pattern that prints to see if there are gaps in the lines.



Nozzles need cleaning



Nozzles are clean

7. If there are no gaps, the print head is clean and you can continue printing.

If there are gaps or the pattern is faint, clean the print head.

### ***From the Computer***

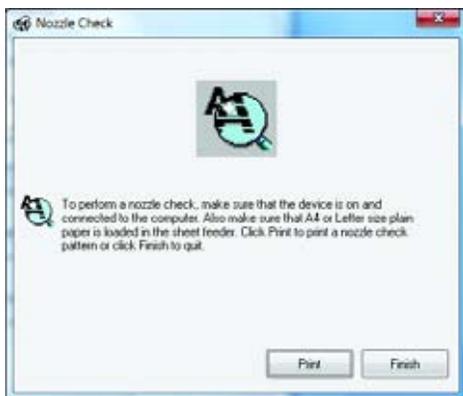
1. Load a few sheets of plain paper in the sheet feeder.

2. **Windows:**

Right-click the  printer icon in the bottom right corner of your screen (the taskbar) and select **Nozzle Check**.

**Macintosh:**

Open the **Applications** folder, open the **EPSON Printer Utility3**, select your Epson printer, and click **OK**. Then select **Nozzle Check**.

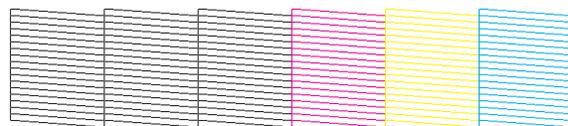


3. Click **Print**.

4. Check the nozzle check pattern that prints to see if there are gaps in the lines.



Nozzles need cleaning



Nozzles are clean

5. If there are no gaps, click **Finish**.

If there are gaps or the pattern is faint, clean the print head.

### **Clean the Print Head Nozzles**

If print quality has declined and the nozzle check pattern indicates clogged nozzles, you can clean the print head.

#### **Note:**

You cannot clean the print head if an ink cartridge is expended, and may not be able to clean it when a cartridge is low. You must replace the cartridge first.

You can clean the print head using your Epson printer's control panel or your software. See these sections below:

### Using the Control Panel

#### From the Computer

#### *Using the Control Panel*

1. Load a few sheets of plain paper in the sheet feeder.
2. Press **Setup**.
3. Press ◀ or ▶ to select **Maintenance**, then press **OK**.
4. Select **Head Cleaning** and press **OK**.
5. Press ◊ **Start**. The cleaning cycle lasts around 1 minute.

When you see a completion message on the LCD display screen, cleaning is finished.

#### **Caution:**

Never turn off your Epson printer during a cleaning cycle or you may damage it.

6. Run a nozzle check to confirm that the print head is clean.

You may need to clean the print head up to 4 times. You can also turn off your Epson printer and wait at least 6 hours. Then try printing again.

#### **Note:**

If you do not use your Epson printer often, it is a good idea to print a few pages at least once a month to maintain good print quality.

#### *From the Computer*

1. Load a few sheets of plain paper in the sheet feeder.
2. **Windows:**

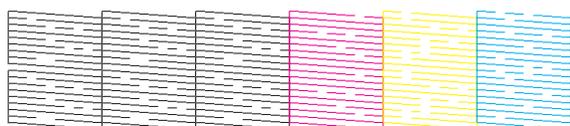
Right-click the  printer icon in the bottom right corner of your screen (the taskbar) and select **Head Cleaning**.

#### **Macintosh:**

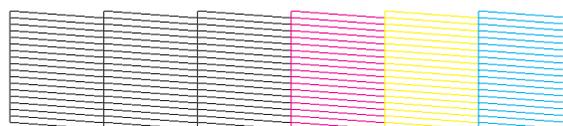
Open the **Applications** folder, open the **EPSON Printer Utility3**, select your Epson printer, and click **OK**. Then select **Head Cleaning**.



- Follow the on-screen instructions to start the cleaning cycle, which lasts around 1 minute.  
The **On** light flashes throughout the cleaning cycle and stays on green when the cycle is finished.
- Caution:**  
Never turn off your Epson printer during a cleaning cycle or you may damage it.
- When the **On** light stops flashing and remains on, you can check to see if the nozzles are clean: Click **Print Nozzle Check Pattern** and click **Print**.
  - Check the nozzle check pattern that prints to see if there are gaps in the lines.



Nozzles need cleaning



Nozzles are clean

- If there are no gaps, click **Finish**.

If there are gaps or the pattern is faint, click **Clean** to clean the print head again.

You may need to clean the print head up to 4 times. You can also turn off your Epson printer and wait at least 6 hours. Then try printing again.

**Note:**

If you do not use your Epson printer often, it is a good idea to print a few pages at least once a month to maintain good print quality.

## Align the Print Head

If your printouts become grainy or blurry, or you see dark or light bands across them, you may need to align the print head.

**Note:**

Banding may also occur if your print head nozzles need cleaning.

You can align the print head using your Epson printer's control panel or your software. See these sections below:

Using the Control Panel

From the Computer

*Using the Control Panel*

- Load a few sheets of plain paper in the sheet feeder.
- Press **Setup**.
- Press **◀** or **▶** to select **Maintenance**, then press **OK**.
- Select **Head Alignment** and press **OK**.
- Press **◆ Start**.

The alignment sheet prints.

6. Look at pattern #1 and find the patch that is most evenly printed, with no noticeable streaks or lines.
7. Press ►, select the number for that patch, then press **OK**.
8. Press ▼.
9. Repeat steps 7 and 8 for each of the other 3 alignment patterns.
10. When you finish, press **OK** and you see a message indicating alignment is complete.

### *From the Computer*

1. Load a few sheets of plain paper in the sheet feeder.

2. **Windows:**

Right-click the  printer icon in the bottom right corner of your screen (the taskbar) and select **Print Head Alignment**.

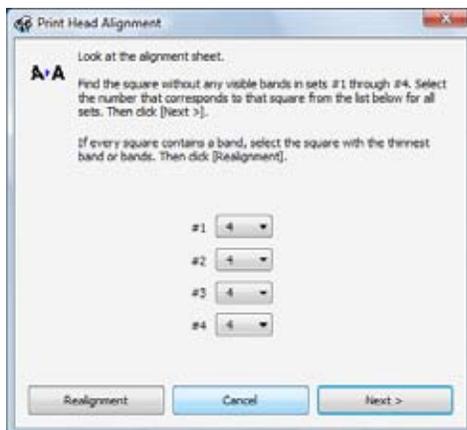
**Macintosh:**

Open the **Applications** folder, open the **EPSON Printer Utility3**, select your Epson printer, and click **OK**. Then select **Print Head Alignment**.

3. Follow the on-screen instructions to print an alignment sheet.

**Note:**

Do not press the  **Stop/Clear Settings** button to cancel printing of the alignment sheet.



4. Check the alignment pattern that prints and compare it to the alignment criteria on your screen.
5. Enter the number of the best pattern and click **Next**.

**Note:**

If no patterns are aligned, choose the closest one and click **Realignment**. Then print another alignment sheet and check it.

6. Follow the on-screen instructions to print and compare each alignment sheet, or click **Skip**.

## Clean the Paper Path

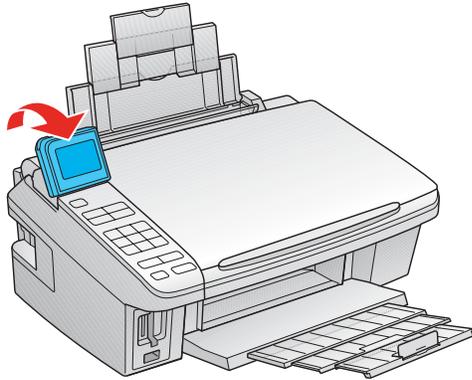
If you see ink on the back of a printout, you can clean the paper path and rollers inside the printer. This removes any excess ink.

1. Make sure there aren't any originals on the scanner glass.
2. Load several sheets of plain paper.
3. Press the  **Copy** button, then press  **Start**.

This feeds paper through the printer to clean the rollers. Repeat if necessary.

## Adjust the LCD Screen

You can adjust the angle of the LCD display screen by tilting it up.



You can also change the language.



## Solve Problems

If you have a problem using your Epson printer, check these sections for guidance in diagnosing and solving the problem:

[Checking for Software Updates](#)

[Problem-solving Tools](#)

[Problems and Solutions](#)

[Re-installing Software](#)

[Getting More Help](#)

### Note:

If you're having problems setting up or using your printer on a network, check the troubleshooting tips in the *Network Installation Guide*.

## Checking for Software Updates

Periodically, it's a good idea to check [Epson's support website](#) for free updates to your Epson printer's software. You can select **Download the Latest Software** from the Home screen of this [User's Guide](#) or visit the driver download site for the Epson Stylus NX510 Series ([U.S. downloads](#) or [Canadian downloads](#)).

With Windows, you can select **Driver Update** on the Maintenance tab in the printer settings window. You can also click **Start** or , select **Programs** or **All Programs**, select **EPSON**, select your printer's folder, and select **Driver Update**.

## Problem-solving Tools

You can often diagnose problems with your Epson printer by [checking the messages](#) on the printer's LCD display screen.

If that does not help you solve your problem, check for [additional solutions](#).

If you need to determine if your Epson printer is operating properly, [run a printer check](#).

If you need to reset all of your control panel settings to their default settings, press **Setup**, press ◀ or ▶ to select **Restore Default Settings**, then press **OK** twice.

## Check LCD Display Screen Messages

Follow the instructions on the display screen to solve most common problems. If you see one of the error messages below, follow the steps here to proceed.

<b>LCD display screen message</b>	<b>Problem and solution</b>
Press the OK button to replace ink cartridges.	An ink cartridge is expended or incorrectly installed. If an ink cartridge is likely to be expended, you must <u>replace the cartridge</u> . If you just replaced a cartridge and the message still appears, the cartridge is not installed correctly. Press the <b>OK</b> button to move the cartridges to the replacement position. Press down on all the installed cartridges, then press the <b>OK</b> button to continue.
Paper jam. Open the scanner unit and remove the paper.	Paper is jammed. Carefully <u>remove the jam</u> .
Press the Start button to eject the paper inside. See your documentation.	
Paper is jammed in the printer. Turn off the printer, open the scanner unit, remove paper. See your documentation.	
No photos could be recognized. Make sure photos are positioned correctly. See your manual.	Make sure your photo is <u>placed correctly</u> on the scanner glass.
A printer error has occurred. Turn off the printer, then press On button to turn on. See your documentation.	Turn your Epson printer off, make sure no <u>paper is jammed</u> inside, and turn it back on. If the error is not resolved, <u>contact Epson</u> for help.
A scanner error has occurred. See your documentation.	Turn your Epson printer off and then back on. If the error is not resolved, <u>contact Epson</u> for help.

<b>LCD display screen message</b>	<b>Problem and solution</b>
The printer's ink pads are nearing the end of their service life. Contact Epson Support.	Parts inside your Epson printer are at the end of their service life. <u>Contact Epson</u> for help.
The printer's ink pads are at the end of their service life. Contact Epson Support.	
Cannot recognize the memory card or disk.	The memory card is not inserted correctly or there is a problem with the card. <u>Remove</u> it and check the card. Make sure the card is compatible with your Epson printer.

### Run a Printer Check

A printer check will help you determine if your Epson printer is operating properly.

1. If your computer is connected, disconnect the USB cable.
2. Load plain paper in the sheet feeder.
3. Press **Setup**, press ◀ or ▶ to select **Maintenance**, select **Nozzle Check**, press **OK**, then press **Start**.
4. Your Epson printer begins printing the nozzle check pattern.
  - If the page prints, your Epson printer is operating. Your problem may be caused by your computer, cable, software, or setting selections. Check for additional solutions or re-install your software.  
If the pattern on the page has gaps, clean or align the print head.
  - If the page does not print, your Epson printer may have a problem. Check for additional solutions. If they don't work, contact Epson.

### Problems and Solutions

Check these sections for solutions to problems you may have using your Epson printer:

Setup Problems

Copying Problems

Paper Problems

Memory Card Problems

Problems Printing From a Computer

Problems Scanning From a Computer

Page Layout and Content Problems

Print Quality Problems (quality is correct on screen)

Image Quality Problems (quality problem appears on screen)

If none of the solutions here solve your problem, contact Epson for help.

See also:

Problem-solving Tools

Re-installing Software

## **Setup Problems**

Noise After Ink Installation

Software Installation Problems

### *Noise After Ink Installation*

- The first time you install ink cartridges, your Epson printer must charge its print head for about 3 minutes. Wait until charging finishes (the ⏻ **On** light stops flashing) before you turn off your printer, or it may charge improperly and use excess ink the next time you turn it on. If the printer stops moving or making noise, but the ⏻ **On** light is still flashing after 5 minutes, turn off your Epson printer. If the light is still flashing when you turn it back on, contact Epson.
- Turn off your Epson printer, then make sure the ink cartridges are inserted completely and the ink cartridge cover is closed completely. Also make sure no packing material remains in the printer. Wait a moment, then turn the printer back on to clear the error.

### *Software Installation Problems*

- If you're installing the NX510 Series on a network, follow the instructions in the printed network guide.
- If you're installing the NX510 Series using a USB cable, make sure your NX510 Series is turned on and the USB cable is securely connected at both ends. If you still have problems, disconnect the USB cable and carefully follow the software installation instructions on the *Start Here* sheet. Also make sure your system meets the requirements.
- Close your other programs, including any screen savers and virus protection software, and install the software again.
- In Windows, make sure your Epson printer is selected as the default printer and that the correct port is shown in the printer properties.
- If you see an error message or your software doesn't install correctly in Windows, you may not have software installation privileges. Contact your System Administrator.
- If you installed the printer using a USB cable, make sure the USB Controller is working properly in Device Manager. See your Windows help system for details. If it's not working, contact your computer manufacturer.
- If you're printing over a network, set up the software for network printing.

## **Copying Problems**

Nothing Prints, Even Though the On Light Is On  
Printing Noise Occurs, Even Though Nothing Prints  
Noise Occurs When the Printer Sits for a While  
Edges Are Cropped

***Nothing Prints, Even Though the On Light Is On***

Run a printer check. If the test page prints, make sure your software is installed correctly.

***Printing Noise Occurs, Even Though Nothing Prints***

- Check to see if the print head nozzles are clogged.
- Your Epson printer won't operate properly if it's tilted or at an angle. Place it on a flat, stable surface that extends beyond the base in all directions.

***Noise Occurs When the Printer Sits for a While***

Your Epson printer is performing routine maintenance.

***Edges Are Cropped***

Make sure your original is positioned in the front right corner of the glass. Move your original away from the edges slightly

**Paper Problems**

Paper Does Not Feed Correctly

Paper Jams

Paper Does Not Eject or Ejects Wrinkled

Memory Card Doesn't Fit in the Slot

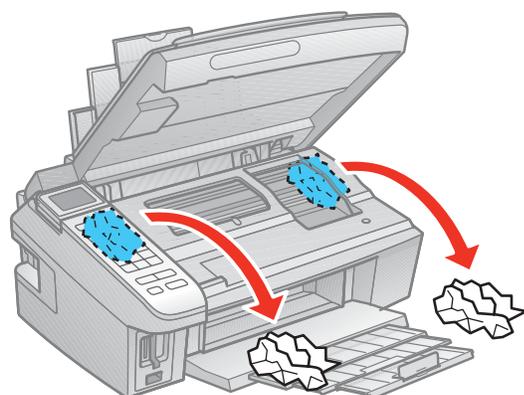
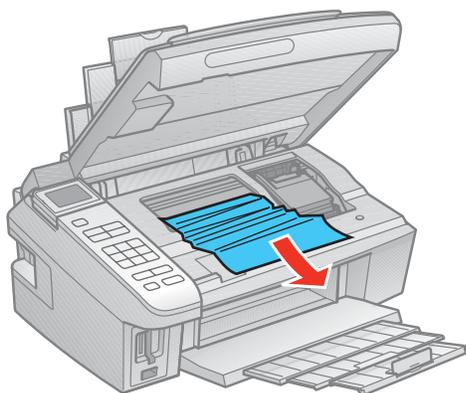
***Paper Does Not Feed Correctly***

- If paper doesn't feed, remove it from the sheet feeder. Fan it, then stack and align the edges. Reload it against the right side, behind the tab, then press in the tab on the left edge guide and slide it against the paper. Make sure the paper is not above the arrow mark inside the left edge guide. Make sure the paper support extensions are fully extended.
- If multiple pages feed at once, remove the paper from the sheet feeder, fan the edges to separate the sheets, then reload it.
- Load only up to the recommended number of sheets. If you're printing on both sides of the paper, try loading fewer sheets.
- Use new, smooth, high-quality paper, that is not curled, creased, old, or too thin. Make sure to load it printable side up.
- Do not load paper with holes punched in it for insertion in a binder.

***Paper Jams***

If paper jams, follow these steps:

1. Gently pull any jammed paper out from the output tray or sheet feeder.
2. If paper is stuck inside, turn off your Epson printer.
3. Lift the scanner, remove the jammed paper and torn pieces, lower the scanner, and turn the printer back on.



### ***Paper Does Not Eject or Ejects Wrinkled***

- If the paper doesn't eject fully, you may have set the wrong paper size. Press the **Start** button, then open the scanner and remove the paper. Select the correct paper size when you reprint.
- If it's wrinkled when it ejects, the paper may be damp or too thin. Load new paper.

### **Memory Card Problems**

#### Cannot View or Print Photos on Memory Card

#### Cannot Transfer Files To/From Computer and Memory Card

#### ***Cannot View or Print Photos on Memory Card***

- Press the **Memory Card** button to view photos on your card.
- If you don't see all the photos you expect to see, they may not be in JPEG format, or there may be more than 999 photos on the card. Your Epson printer reads only the first 999 photos.

- Make sure you're using a compatible memory card and have inserted only one card into your Epson printer. See [Insert Memory Card](#).

#### ***Cannot Transfer Files To/From Computer and Memory Card***

- Make sure your Epson printer is securely connected to your computer and the card's seal or switch is set to allow writing to the card (if transferring files to the card). Then try [transferring the files](#) again.
- If you installed the NX510 Series on a network, make sure that the File Sharing setting is set to Read/Write.
- If you installed the NX510 Series on a network and are trying to access the memory card slots in Mac OS X, you need to [connect to the memory card slots](#) before you can access them.

#### ***Memory Card Doesn't Fit in the Slot***

You may need to use an adapter with the card. See [Insert Memory Card](#).

#### **Problems Printing From a Computer**

[Nothing Prints, Even Though the On Light Is On](#)

[Printing Noise Occurs, Even Though Nothing Prints](#)

[Noise Occurs When the Printer Sits for a While](#)

[No Printer Icon Appears in Windows Taskbar](#)

[Slow Printing](#)

[Cannot Print Over a Network](#)

#### ***Nothing Prints, Even Though the On Light Is On***

- Make sure the USB cable is connected securely at both ends and meets the requirements.  
If you installed the Epson Stylus NX510 Series on a wired network, make sure the Ethernet cable is securely connected at both ends.  
If you installed the Epson Stylus NX510 Series on a wireless network, make sure that your computer and the NX510 Series are connected to your wireless network.
- Run a [printer check](#). If the test page prints, make sure your software is installed correctly.

#### ***Printing Noise Occurs, Even Though Nothing Prints***

- Check to see if the [print head nozzles](#) are clogged.
- Your Epson printer won't operate properly if it's tilted or at an angle. Place it on a flat, stable surface that extends beyond the base in all directions.

#### ***Noise Occurs When the Printer Sits for a While***

Your Epson printer is performing routine maintenance.

#### ***No Printer Icon Appears in Windows Taskbar***

Try restarting your computer. If you still don't see the  icon, follow these steps:

1. Do one of the following:

**Windows Vista:**

Click , select **Control Panel**, and click **Printer** under **Hardware and Sound**.

**Windows XP:**

Click **Start**, select **Control Panel**, then select **Printers and Faxes** (or **Printers and Other Hardware** and then **Printers and Faxes**).

**Windows 2000:**

Click **Start**, point to **Settings**, then select **Printers**.

2. Right-click your Epson printer and select **Printing Preferences** or **Properties**.
3. Click the **Maintenance** tab.
4. Click the **Speed & Progress** button, then click the **Monitoring Preferences** button.
5. Click the **Shortcut Icon** box. Then click **OK** to close the open windows.

### *Slow Printing*

Make sure your system meets the requirements. If you're printing a high-resolution image, you need more than the minimum requirements listed. You may also need to:

- Clear space on your hard drive or run a defragmentation utility.
- Close programs that you're not using.
- Increase your system's memory.
- If you installed the NX510 Series using a USB cable, use a computer with a high-speed USB 2.0 port.
- If you installed the NX510 Series using an Ethernet cable, use a computer and router (or hub or switch) with 100 Base-T ports.
- If you installed the NX510 Series as a wireless printer, use a computer and a router or wireless access point with 802.11g. Try moving the NX510 Series and your wireless router or access point closer together. Also avoid placing your NX510 Series next to large metal objects (such as a filing cabinet), microwave ovens, or 2.4 GHz cordless phones.

For the fastest printing, try these tips:

- Choose **Black/Grayscale** in your printer settings if your document doesn't include color.
- For Windows, choose **Draft** for the Quality Option.
- For Macintosh, set the Quality/Speed slider to **Speed**.
- Make sure **Quiet Mode** is not selected.
- If your Epson printer is connected to a USB hub, disconnect unused USB devices.

### *Cannot Print Over a Network*

- Make sure you set up your software properly for network printing. See the printed network guide for instructions.
- Try printing to the NX510 Series from another computer on the network and see if the problem persists.

- If you installed the NX510 Series on a wireless network, make sure that your computer and the NX510 Series are both connected to the same network.

To view the NX510 Series network connection status, press **Setup**, select **Network Settings**, then select **Confirm Network Settings**.

## **Problems Scanning From a Computer**

### The Scanner Software Does Not Work Properly

#### You Cannot Start Epson Scan

##### *The Scanner Software Does Not Work Properly*

- Make sure your computer has enough memory and meets the other system requirements.
- The scanner software 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 software may not work properly if you upgraded your operating system but did not reinstall Epson Scan.
- You may need to upgrade Epson Scan. Check the web for driver updates.

#### *You Cannot Start Epson Scan*

- Make sure your Epson printer is turned on.
- Check the cable connection between your Epson printer and your computer to make sure it is secure.
- If you installed the NX510 Series on a network and are trying to scan in Mac OS X, you need to configure network settings for Epson Scan before you can scan over the network.
- The scanner software 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 software may not work properly if you upgraded your operating system but did not reinstall Epson Scan.
- You may need to upgrade Epson Scan. Check the web for driver updates.
- Make sure that Epson Scan is selected in your scanning program.

## **Page Layout and Content Problems**

### Image Is Inverted Like a Mirror Image

#### Blank Pages Print

#### Too Many Copies Print

#### Incorrect Margins

#### White Border on Borderless Photo

#### Incorrect Characters Print

#### Incorrect Image Size or Position

#### *Image Is Inverted Like a Mirror Image*

- Turn off the mirror setting in your application program.
- Turn off the **Mirror Image** setting in the printer driver in the Page Layout window (Windows) or Print Settings windows (Mac OS X 10.3 and 10.4 or Mac OS X 10.5). (If you are printing on Epson Iron-on Cool Peel Transfer Paper, however, the image should be inverted.)

#### ***Blank Pages Print***

- Make sure your Epson printer is selected as your printer.
- Check to see if the print head nozzles are clogged.

#### ***Too Many Copies Print***

Make sure that the **Copies** option in your printer software or program is not set for multiple copies.

#### ***Incorrect Margins***

- Make sure the paper settings are correct for your paper size in the Windows, Mac OS X 10.3 and 10.4, or Mac OS X 10.5 printer software.
- Choose the correct margins for your paper size in your printing program.
- Use the **Print Preview** option in your Windows, Mac OS X 10.3 and 10.4, or Mac OS X 10.5 printer software to check your margins before you print.
- Make sure your paper is positioned next to the right side of the feeder.

#### ***White Border on Borderless Photo***

- Make sure you are printing on a paper that supports borderless printing.
- In the Windows printer software, make sure you selected the **Borderless** option.  
In the Mac OS X 10.3 and 10.4 or Mac OS X 10.5 printer software, make sure you selected a **Paper Size** listed as **Sheet Feeder - Borderless**.
- Use the **Expansion** setting in the Windows, Mac OS X 10.3 and 10.4 or Mac OS X 10.5 printer software to adjust how the image fits on the page.

#### ***Incorrect Characters Print***

- Make sure the USB cable is securely connected and meets the requirements. Then try printing again.
- Make sure your printer is selected in Windows, or is set as the active printer in Print Center (Macintosh).
- If you're using a switch box or USB hub with your printer, connect the printer directly to your computer.
- Turn your Epson printer off, check that the cables are securely connected, and turn it back on again.

#### ***Incorrect Image Size or Position***

- If you are copying, make sure you selected the correct paper size on the control panel. See [Copy a Document or Photo](#) for details.
- If you are printing from your computer, make sure the paper and layout options are set correctly in your [Windows](#), [Mac OS X 10.3 and 10.4](#), or [Mac OS X 10.5](#) printer software.

### **Print Quality Problems (quality is correct on screen)**

If your printout has a quality problem but the image looks fine on your computer screen, check the solutions in this section.

If the image also looks incorrect on screen, check for [image quality problems](#).

[Printout Has White or Dark Lines Across It](#)

[Printout Is Blurry or Smearred](#)

[Printout Is Faint or Has Gaps](#)

[Printout Is Grainy](#)

[Incorrect Colors in Printout](#)

#### ***Printout Has White or Dark Lines Across It***

- The print head nozzles may need [cleaning](#).
- Select a higher **Quality Option** or **Print Quality** and turn off **High Speed** mode in the [Windows](#), [Mac OS X 10.3 and 10.4](#), or [Mac OS X 10.5](#) printer software.
- Make sure the paper [Type](#) or [Media Type](#) setting matches the paper you loaded.
- Make sure the printable side of the paper is face up. It's usually brighter or whiter.
- The ink cartridges may need [replacing](#).
- On [Mac OS X 10.3 and 10.4](#) or [Mac OS X 10.5](#), try using **Automatic** mode.
- [Align](#) the print head.
- Your Epson printer won't operate properly if it's tilted or at an angle. Place it on a flat, stable surface that extends beyond the base in all directions.

#### ***Printout Is Blurry or Smearred***

- Make sure your paper isn't damp or curled, or loaded face-down (the printable side should be face up).
- Use a support sheet with special paper (such as a sheet of plain paper beneath the special paper sheet), or try loading your paper one sheet at a time.
- Make sure your paper meets the [specifications](#).
- Use Epson papers to ensure proper saturation and absorption of genuine Epson inks.
- [Align](#) the print head.
- Remove each sheet from the output tray as it is printed.
- Turn off **High Speed** mode in the [Windows](#), [Mac OS X 10.3 and 10.4](#), or [Mac OS X 10.5](#) printer software.

- If you are using double-sided paper and printing heavily saturated or dark images on the front side of the paper, you may notice that smudges or marks appear on the front when you print the second side. If one side of the paper will contain a lighter image or text, print that side first to eliminate marks or smudging.
- To clean the rollers inside your Epson printer, try making several copies without placing a document on the scanner glass.

#### *Printout Is Faint or Has Gaps*

- The print head nozzles may need cleaning.
- The ink cartridges may be old or low on ink, and you may need to replace them.
- Make sure the paper Type or Media Type setting matches the paper you loaded.
- Make sure your paper isn't damaged, old, dirty, or loaded face-down. If it is, reload a new stack of paper with the printable side up; it is usually brighter or whiter than the other side. For best results, use genuine Epson paper.

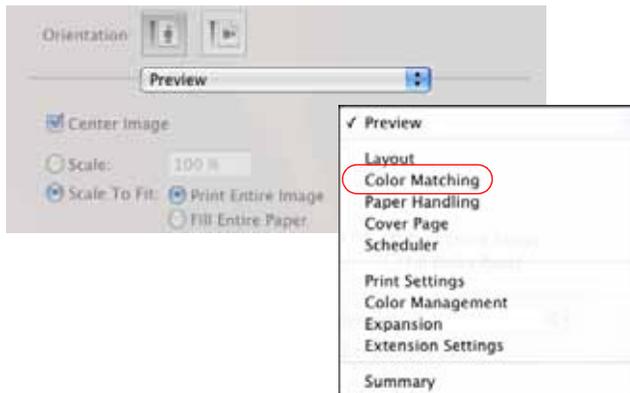
#### *Printout Is Grainy*

- Make sure the printable side of the paper is face up. It's usually brighter or whiter.
- Select a higher **Quality Option** or **Print Quality**, and turn off **High Speed** and **Fast Economy** or **Economy** mode in the Windows, Mac OS X 10.3 and 10.4, or Mac OS X 10.5 printer software.
- Select **Photo RPM (Max dpi)** for the Quality Type (Windows) or **Photo RPM** for the Print Quality (Mac OS X 10.3 and 10.4 or Mac OS X 10.5). Remember that this setting increases print time.
- Align the print head.
- You may need to increase the image resolution or print in a smaller size; see your software documentation.

#### *Incorrect Colors in Printout*

- Make sure your Windows, Mac OS X 10.3 and 10.4, or Mac OS X 10.5 printer software is not set to print in grayscale.
- For best results, use genuine Epson ink and paper.
- The print head nozzles may need cleaning.
- The ink cartridges may be old or low on ink, and you may need to replace them.
- Try turning off **Fix Photo** in the Windows or Mac OS X 10.5 printer software.
- With Mac OS X 10.3 and 10.4 or Mac OS X 10.5, try using **Automatic** mode.
- Try changing the **Gamma** setting in your Windows, Mac OS X 10.3 and 10.4 or Mac OS X 10.5 printer software.
- Your printed colors can never exactly match your on-screen colors. However, you can use a color management system to get as close as possible. Try using **ICM** (Windows) or **ColorSync** (Mac OS X 10.3 and 10.4).

In Mac OS X 10.5, you can select ColorSync from the **Color Matching** pop-up menu.



### **Image Quality Problems (quality problem appears on screen)**

If a scanned image on your computer screen has a quality problem, check the solutions in this section.

#### **Note:**

The color and quality of images displayed on your Epson printer's display screen will not match your originals.

If the image looks correct on screen but prints with poor quality, check for print quality problems.

Image Consists of a Few Dots Only

Line of Dots Appears in All Scanned Images

Straight Lines in Image Appear Crooked

Image Is Distorted or Blurry

Image Colors Are Patchy at the Edges

Image Is Too Dark

Back of Original Image Appears in Scanned Image

Ripple Patterns Appear in Image

Image Is Scanned Upside-Down

Image Colors Do Not Match Original Colors

Scan Area Not Adjustable in Thumbnail Preview

Edges Are Cropped

#### ***Image Consists of a Few Dots Only***

- Make sure the document is placed on the scanner glass with the side to be scanned facing down.
- When scanning with the **Black & White** setting in Home, Professional, or Office Mode, adjust the **Threshold** setting.

### *Line of Dots Appears in All Scanned Images*

If a dotted line appears in the image, clean the scanner glass with a soft, dry, lint-free cloth (paper towels are not recommended), or use a small amount of glass cleaner on a soft cloth, if necessary. **Don't spray glass cleaner directly on the glass.**

### *Straight Lines in Image Appear Crooked*

Make sure the document lies perfectly straight on the scanner glass.

### *Image Is Distorted or Blurry*

- Make sure the document lies flat on the scanner glass. Also make sure your document is not wrinkled or warped.
- Make sure you do not move the document or your Epson printer while scanning.
- Make sure your Epson printer is placed on a flat, stable surface.
- Select **Unsharp Mask** in Epson Scan's Professional Mode.
- Adjust the **Auto Exposure** setting in Epson Scan's Professional Mode.
- Increase the **Resolution** setting in Epson Scan's Home, Office, or Professional Mode.

### *Image Colors Are Patchy at the Edges*

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

### *Image Is Too Dark*

- Adjust the **Auto Exposure** setting in Epson Scan's Professional Mode.
- Check the **Brightness** setting in Epson Scan's Home, Office, or Professional Mode, or adjust brightness using the **Histogram** in Professional Mode (see Epson Scan Help).
- Check the brightness and contrast settings of your computer monitor.

### *Back of Original Image Appears in Scanned Image*

If your original is printed on thin paper, images on the back may show through the paper and appear in your scanned image. Try scanning the original with a piece of black paper placed on the back of it.

### *Ripple Patterns Appear in Image*

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

- Select the **Descreening** option in Epson Scan's Home, Office, or Professional Mode.
- Select a lower **Resolution** setting in Epson Scan's Home, Office, or Professional Mode.

### *Image Is Scanned Upside-Down*

In Home or Professional Mode, your Epson printer automatically detects the top of certain photos by analyzing the preview for human faces, the sky, or other orientation factors using **Auto Photo**

**Orientation.** It then places the photos in the correct orientation in the scanned file. If your particular photo is not oriented correctly, you can turn off **Auto Photo Orientation** and try again. Click the **Configuration** button, click the **Preview** tab, and click the **Auto Photo Orientation** checkbox to turn it off.

#### *Image Colors Do Not Match Original Colors*

- Change the **Image Type** setting in Epson Scan's Home, Office, or Professional Mode. Select different combinations of this setting and the others mentioned below.
- Try selecting a different **Tone Correction** or **Auto Exposure** setting in Professional Mode.
- 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.

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).

#### *Scan Area Not Adjustable in Thumbnail Preview*

- Create a marquee or adjust the existing marquee to select the area you want to scan in Home or Professional Mode.
- Switch to the Normal preview (if available) in Home or Professional Mode and preview your image again.

#### *Edges Are Cropped*

Make sure your original is positioned in the front right corner of the glass. Move your original away from the edges slightly.

## Re-installing Software

If you have a problem that requires you to uninstall and re-install your software, follow the instructions in one of these sections.

### Windows

### Macintosh

#### **Windows**

1. Turn off your Epson printer.
2. Disconnect the USB cable from the printer.
3. Click **Start** or , and select **Programs** or **All Programs**.
4. Select **EPSON**, select your printer's folder, then select **EPSON Printer Software Uninstall**.

#### **Note:**

With Windows Vista, click **Continue**, then go to the next step.

5. In the next window, select your Epson printer and click **OK**. Then follow the on-screen instructions.
6. Open the Windows **Control Panel**, then click **Uninstall a program** under **Programs & Features** (Windows Vista) or double-click **Add or Remove Programs** (other Windows versions).
7. Click **EPSON Scan** in the list of currently installed programs and click **Uninstall/Change** (Windows Vista) or **Change/Remove** (Windows XP or 2000). With Windows Vista, click **Continue**.
8. Click **Next**.

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**.

9. Restart your computer, then see the *Start Here* sheet (for a USB connection) or the printed network guide (for network connections) to reinstall your software.

## Macintosh

1. Turn off your Epson printer.
2. Disconnect the USB cable from the printer.
3. Insert your Epson printer's software CD-ROM in your CD-ROM or DVD drive.
4. Open the **Common** folder in the CD-ROM window, then open the **EPSON Scan** folder.

### Note:

You may have to scroll down to see the **Common** folder.

5. Double-click the **EPSON Scan Installer** icon.
6. When the Installer window appears, select **Uninstall** from the pop-up menu at the top and click the **Uninstall** button.
7. Open the **English** folder in the CD-ROM window, then open the **Printer** folder.

### Note:

You may have to scroll down to see the **English** folder.

8. Double-click the **Installer** icon.
9. When the Installer window appears, select **Uninstall** from the pop-up menu at the top and click the **Uninstall** button.

10. Do one of the following:

**Mac OS X 10.5:** Open **System Preferences**, select **Print & Fax**, select your Epson printer and click the – button.

**Mac OS X 10.3 and 10.4:** Open the **Applications** folder, select **Utilities**, choose **Printer Setup Utility**, select your Epson printer and click **Delete**.

11. Restart your Macintosh, then see the *Start Here* sheet (for a USB connection) or the printed network guide (for network connections) to reinstall your software.

## Getting More Help

If you need additional help with your Epson printer or its software, contact Epson. (If you need help with Arcsoft Print Creations™, contact [Arcsoft](#).)

Epson provides these technical support services:

### Internet Support

Visit Epson's support website for solutions to common problems with the Epson Stylus NX510 Series ([U.S.](#) or [Canada](#)). You can download drivers and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

### Speak to a Support Representative

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

- Product name (Epson Stylus NX510 Series)
- Product serial number (located on the back of product)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer configuration
- Description of the problem

Then call:

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

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

### Purchase Supplies and Accessories

You can purchase genuine Epson ink and paper at Epson Supplies Central at [www.epson.com/ink3](http://www.epson.com/ink3) (U.S. sales) or [www.epson.ca](http://www.epson.ca) (Canadian sales). You can also purchase supplies from an Epson authorized reseller. To find the nearest one, call 800-GO-EPSON (800-463-7766).



## Clean and Transport Your Printer

If your Epson printer gets dirty or you need to move it some distance, follow the instructions in these sections:

Cleaning

Transportation

See also:

Clean the Print Head

Clean the Paper Path

### Cleaning

To keep your Epson printer working at its best, you should clean it several times a year.

#### Caution:

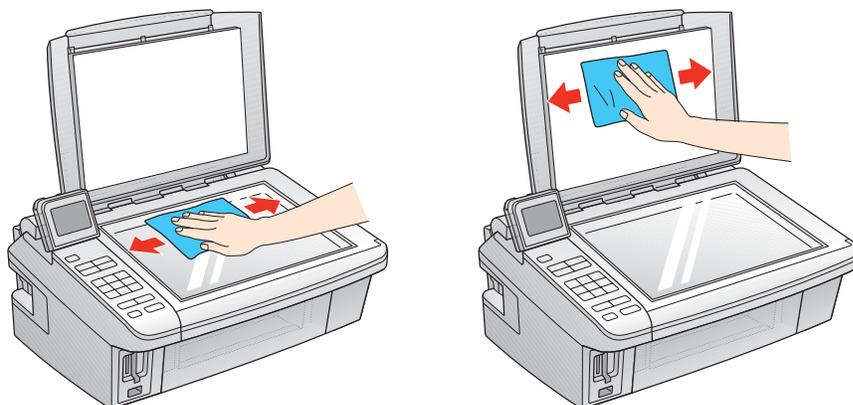
Do not use a hard brush, benzine, alcohol, or paint thinner to clean your Epson printer or you may damage it. Do not place anything on top of the document cover or use the cover as a writing surface, or it could get permanently scratched. Do not use oil or other lubricants inside the printer or let water get inside it.

1. Turn off your Epson printer.
2. Unplug the power cable.
3. Disconnect the USB cable.
4. Remove all the paper.
5. Clean the sheet feeder using a soft brush.
6. Clean the scanner glass with a soft, lint-free cloth moistened with a little glass cleaner.

#### Caution:

Do not spray glass cleaner directly on the glass.

7. Clean the inside of the document cover with a soft, non-abrasive microfiber-type cloth.



8. Close the document cover and paper support, then clean the outer case with a soft cloth dampened with mild detergent.
9. Clean the LCD display screen with a soft, dry cloth. Do not use liquid or chemical cleansers.

## Transportation

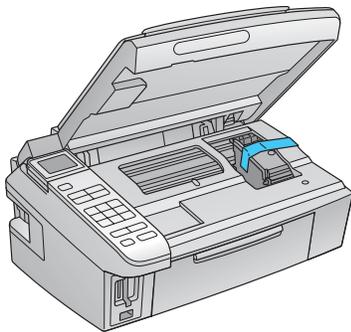
If you need to ship your Epson printer or transport it a long distance, prepare it for transportation as follows:

1. Turn off the printer.

**Note:**

Always turn off the printer using the **⏻ On** button, and wait until the **⏻ On** light stops flashing before unplugging the printer or cutting off power to the electrical outlet.

2. Unplug all the connected cables.
3. Remove all the paper.
4. Close the paper support and output tray.
5. Lift up the scanner and check that the ink cartridge holder is all the way to the right (the home position). If necessary, turn on your Epson printer, then turn it off again.
6. Fasten the ink cartridge holder to the case using tape. Leave the ink cartridges installed to avoid damaging the printer.



7. Lower the scanner.
8. Pack your Epson printer in its original box or one of a similar size using protective material to keep it from moving inside the box.
9. Keep the printer level during transportation to prevent damage.
10. After unpacking the printer, remove the tape securing the ink cartridge holder.

If print quality has declined when you print again in a new location, clean and align the print head.

# Specifications and Notices

For information about using your Epson printer and detailed specifications, see:

[Printer Parts](#)

[Important Safety Instructions](#)

[Computer System Requirements](#)

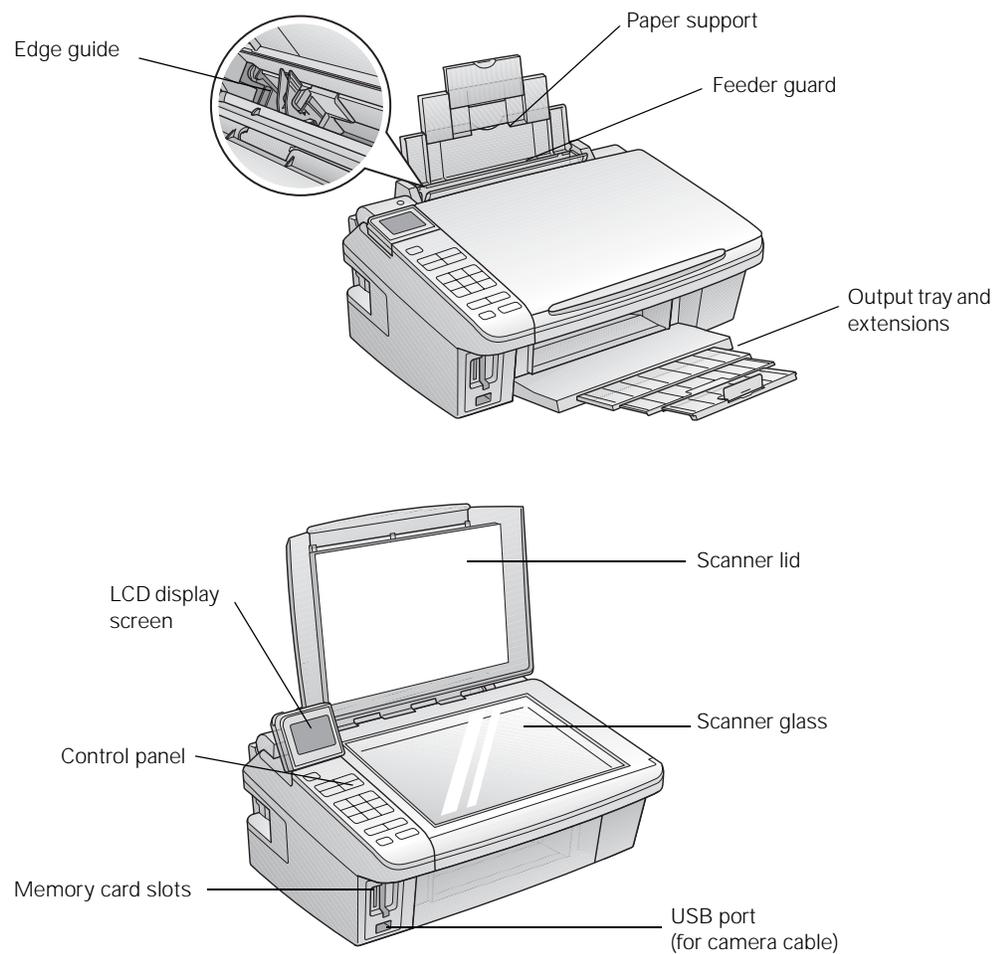
[Product Specifications](#)

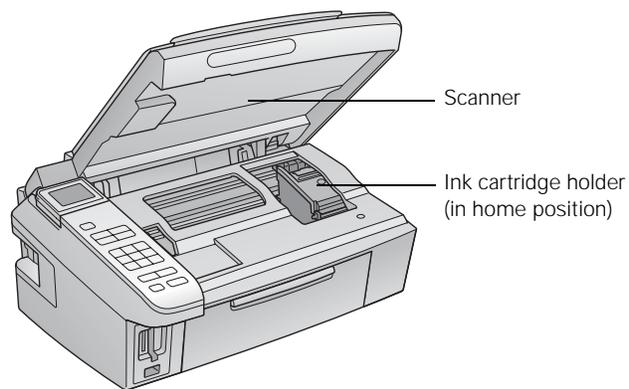
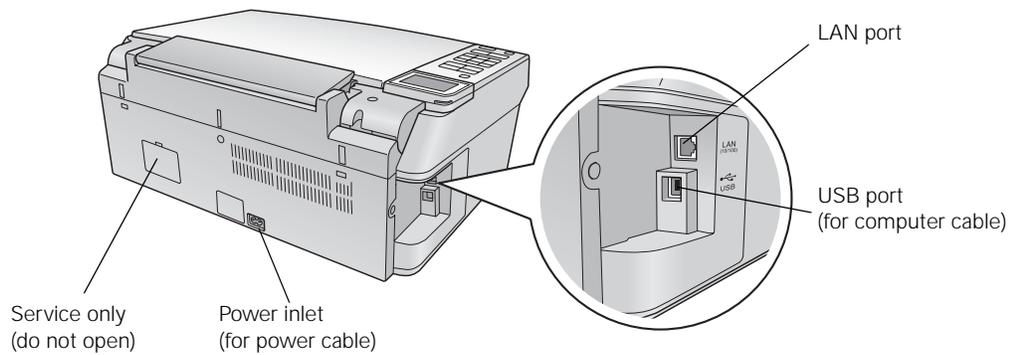
[Software Notices](#)

[Copyright and Trademarks](#)

## Printer Parts

Use these illustrations to identify the parts of your printer:





## Important Safety Instructions

Before using your Epson printer, read and follow these safety instructions:

### General Safety

### Ink Cartridge Safety

### LCD Display Screen Safety

### **General Safety**

- Be sure to follow all warnings and instructions marked on your Epson printer.
- Use only the type of power source indicated on the printer label.
- Use only the power cord that comes with the printer. Use of another cord may cause fires or shock. Do not use the cord with any other equipment.
- Place the printer near a wall outlet where the plug can be easily unplugged.
- If you won't be using the printer for a long period, unplug the power cord from the electrical outlet.
- Always turn off the printer using the **⏻ On** button, and wait until the **⏻ On** light stops flashing before unplugging the printer or cutting off power to the electrical outlet.
- Avoid plugging the printer into an outlet on the same circuit as a photo copier or air control system that regularly switches on and off, or on an outlet controlled by a wall switch or timer.

- Do not let the power cord become damaged or frayed.
- If you use an extension cord with the printer, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- Avoid locations that are subject to rapid changes in heat or humidity, shocks or vibrations, or dust.
- Leave enough room around the printer for sufficient ventilation. Do not block or cover openings in the case or insert objects through the slots.
- Do not place the printer near a radiator or heating vent or in direct sunlight.
- Do not use aerosol products that contain flammable gases inside or around the printer. Doing so may cause fire.
- Place the printer on a flat, stable surface that extends beyond its base in all directions. It will not operate properly if it is tilted or at an angle.
- Make sure the back of the printer is at least 4 inches (10 cm) away from the wall.
- Do not open the scanner section while the printer is copying, printing, or scanning.
- Do not touch the flat white cable inside the printer, and be careful not to trap your fingers when closing the scanner.
- Do not spill liquid on the printer.
- Except as specifically explained in your documentation, do not attempt to service the printer yourself.
- Unplug the printer and refer servicing to qualified service personnel under the following conditions: if the power cord or plug is damaged; if liquid has entered the product; if the product has been dropped or the case damaged; if the product does not operate normally or exhibits a distinct change in performance. Adjust only those controls that are covered by the operating instructions.
- When storing or transporting the printer, do not tilt it, stand it on its side, or turn it upside down; otherwise ink may leak from the cartridges.

### **Ink Cartridge Safety**

- Keep ink cartridges out of the reach of children and do not drink the ink.
- Be careful when you handle used ink cartridges; there may be ink remaining around the ink supply port. If ink gets on your skin, wash it off with soap and water. If it gets in your eyes, flush them immediately with water.
- Do not shake ink cartridges after opening their packages; this can cause leakage.
- Do not put your hand inside the printer or touch any cartridges during printing.
- Install a new ink cartridge immediately after removing an expended one. Leaving cartridges uninstalled can dry out the print head and may prevent the printer from printing.

- If you remove an ink cartridge for later use, protect the ink supply area from dirt and dust and store it in the same environment as the printer. Note that there is a valve in the ink supply port, making covers or plugs unnecessary, but care is needed to prevent the ink from staining items that the cartridge touches. Do not touch the ink cartridge ink supply port or surrounding area.

### **LCD Display Screen Safety**

- Use only a dry, soft cloth to clean the LCD display screen. Do not use liquid or chemical cleansers.
- If the LCD display screen is damaged, contact Epson. If the liquid crystal solution gets on your hands, wash them thoroughly with soap and water. If the liquid crystal solution gets into your eyes, flush them immediately with water. If discomfort or vision problems remain after a thorough flushing, see a doctor immediately.

## **Computer System Requirements**

To use your Epson printer and its software, your computer system should meet or exceed the requirements in these sections:

### Windows Requirements

### Macintosh Requirements

#### **Windows Requirements**

Your system should include:

- Microsoft® Windows 2000, Windows XP, Windows XP Professional x64 Edition, or Windows Vista
- USB 1.1 port (minimum) or USB 2.0 port (recommended) and a shielded USB “AB” cable up to 6.5 feet (2 meters) long (not required for network connections). Using an improperly shielded USB cable may cause your Epson printer to malfunction.

#### **Note:**

Visit Epson’s support website for the latest in compatibility and drivers for the Epson Stylus NX510 Series ([U.S.](#) or [Canada](#)).

#### **Macintosh Requirements**

Your system should include:

- Mac OS X 10.3.9, 10.4.11, or 10.5.x
- USB 1.1 port (minimum) or USB 2.0 port (recommended) and a shielded USB “AB” cable up to 6.5 feet (2 meters) long (not required for network connections). Using an improperly shielded USB cable may cause your Epson printer to malfunction.

#### **Note:**

Visit Epson’s support website for the latest in compatibility and drivers for the Epson Stylus NX510 Series ([U.S.](#) or [Canada](#)).

## **Product Specifications**

See these sections for the detailed specifications of your Epson printer:

Printing

Scanning

Paper

Memory Cards

Ink Cartridges

Size and Weight

Electrical

Environmental

Standards

Interface

Network (wireless)

See also:

Computer System Requirements

Important Safety Instructions

### **Printing**

Paper path

Sheet feeder, top entry

Sheet feeder capacity

Approx. 100 sheets at 20 lb (75 g/m<sup>2</sup>)

### **Scanning**

Scanner type

Flatbed color

Photoelectric device

CIS

Effective pixels

10,200 × 14,040 pixels at 1200 dpi

Document size

8.5 × 11.7 inches (216 × 297 mm), US Letter- or A4-size

Scanning resolution

1200 dpi (main scan)

2400 dpi (sub scan)

## Output resolution

50 to 4800, 7200, and 9600 dpi  
(50 to 4800 dpi in 1 dpi increments)

## Image data

48 bits per pixel per color internal  
24 bits per pixel per color external (maximum)

## Light source

RGB three color LED

## Paper

Use paper under normal conditions:

Temperature: 59 to 77 °F (15 to 25 °C)

Humidity: 40 to 60% RH

### **Note:**

Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, Epson cannot guarantee the quality of any non-Epson brand or type of paper.

Always test a sample of paper stock before purchasing large quantities or printing large jobs.

## *Single-sheets*

### Size

A4 (8.3 × 11.7 inches [210 × 297 mm])

A6 (4.1 × 5.8 inches [105 × 148 mm])

Letter (8.5 × 11 inches [216 × 279 mm])

Legal (8.5 × 14 inches [216 × 356 mm])

4 × 6 inches (102 × 152 mm)

5 × 7 inches (127 × 178 mm)

8 × 10 inches (203 × 254 mm)

### Paper types

Plain paper

Special papers distributed by Epson

### Thickness

0.003 to 0.004 inch (0.08 to 0.11 mm)

### Weight

17 lb (64 g/m<sup>2</sup>) to 24 lb (90 g/m<sup>2</sup>)

## *Envelopes*

### Size

No. 10 (4 1/8 × 9 1/2 inches [105 × 241 mm])

## Paper type

Plain bond paper

## Weight

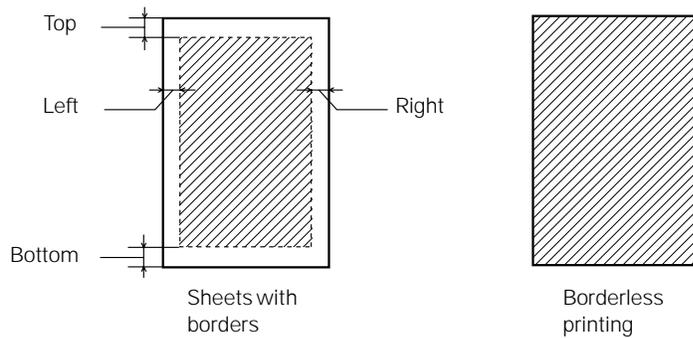
20 lb (75 g/m<sup>2</sup>) to 24 lb (90 g/m<sup>2</sup>)

## Printable Area

### Note:

When printing borderless, quality may decline in the expanded printable area.

## Single sheets



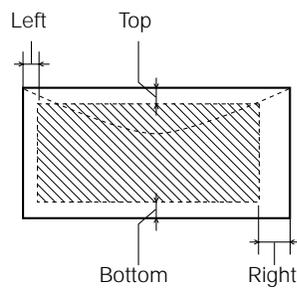
Top: 0.12 inch (3 mm) minimum

Left: 0.12 inch (3 mm) minimum

Right: 0.12 inch (3 mm) minimum

Bottom: 0.12 inch (3 mm) minimum

## Envelopes



Left: 0.12 inch (3 mm) minimum

Bottom: 0.20 inch (5 mm) minimum

Top: 0.20 inch (5 mm) minimum

Right: 0.78 inch (20 mm)

## Memory Cards

## Compatible memory cards

CompactFlash

Microdrive

SD

SDHC

miniSD\*

miniSDHC\*

microSD\*

microSDHC\*

MultiMediaCard

MMplus

MMCmobile\*

MMCmicro\*

Memory Stick

Memory Stick Duo\*

Memory Stick PRO

Memory Stick PRO Duo\*

Memory Stick PRO-HG Duo\*

Memory Stick Micro\*

MagicGate Memory Stick

MagicGate Memory Stick Duo\*

xD-Picture Card

xD-Picture Card Type H

xD-Picture Card Type M

xD-Picture Card Type M+

\* Requires adapter

## Memory card format

DCF (Design rule for Camera File system) version 1.0 or 2.0 compliant

All card types standard version compliant.

## Voltage requirements

3.3 V

Maximum current is 500 mA

## Photo data specifications

File format: JPEG with the Exif Version 2.21 standard

Image size: 80 × 80 pixels to 9200 × 9200 pixels

Number of files: Up to 999

## **Ink Cartridges**

### **Note:**

We recommend that you use genuine Epson cartridges and do not refill them. The use of other products may affect your print quality and could result in printer damage.

For best printing results, use up a cartridge within six months of opening the package.

Yields vary considerably based on images printed, print settings, paper type, frequency of use and temperature. For print quality, a small amount of ink remains in the cartridge after the “replacement cartridge” indicator comes on.

The printer ships with full cartridges and part of the ink from this first set of cartridges is used for charging the printer.

### Color

Cyan, Magenta, Yellow, Black

Part numbers: 69 Standard-capacity, 68 High-capacity, or 97 Extra High-capacity (black ink only)

### Ordering information

### Cartridge life

Opened package: 6 months at 77 °F (25 °C)

Unopened package: do not use if the date on the package has expired

### Temperature

Storage: -4 to 104 °F (-20 to 40 °C)

1 month at 104 °F (40 °C)

Ink freezes at 10.4 °F (-12 °C)

Ink thaws and is usable after 3 hours at 77 °F (25 °C)

## **Size and Weight**

### Size

Stored:

Width: 17.7 inches (450 mm)

Depth: 13.5 inches (342 mm)

Height: 7.2 inches (182 mm)

Printing:

Width: 17.7 inches (450 mm)

Depth: 21.3 inches (541 mm)

Height: 11.7 inches (298 mm)

Weight (without the ink cartridges)

12.8 lb (5.8 kg)

## **Electrical**

Power supply rating

100 to 120 V (for North America)

220 to 240 V (for Latin America)

Input voltage range

90 to 132 V

198 to 264 V

Rated frequency range

50 to 60 Hz

Input frequency range

49.5 to 60.5 Hz

Rated current

0.6 A [120 V]

0.3 A [220 V]

Power consumption

Copying: 12 W

Low power: 5 W

Sleep mode: 2.5 W at 110 V, 3.0 W at 220 V

Power off mode: 0.2 W at 110 V, 0.3 W at 220 V

## **Environmental**

Temperature

Operation: 50 to 95 °F (10 to 35 °C)

Storage: -4 to 104 °F (-20 to 40 °C), 1 month at 104 °F (40 °C)

Humidity

Operation: 20 to 80% RH

Storage: 5 to 85% RH

(without condensation)

## **Standards**

Safety

UL60950-1

CAN/CSA C22.2 No. 60950-1

## EMC

FCC part 15 Subpart B class B

CAN/CSA-CEI/IEC CISPR 22 Class B

## Interface

One USB 2.0 Hi-Speed (Device Class for computers); Type B port

One USB 1.1 Full-Speed (for PictBridge or USB DIRECT-PRINT compliant devices)

## Network (wireless)

### Standard

IEEE 802.11b/g

(compatible with 802.11n)

### Frequency band

2.4 GHz

### Security

WEP (64/128bit)

WPA-PSK (TKIP/AES)

WPA2

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- debianutils\_2.6.2
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- hostname\_2.10
- ifupdown\_0.6.4
- inetutils-ftp\_1.4.2
- initscripts\_2.85
- libc6\_2.3.6
- libgcc1\_4.1.1
- module-init-tools-1.60.9
- net-tools\_1.60
- netbase\_4.14
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- sysvinit-2.85
- udhcp 0.9.8
- cvs20050124-5
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