

CanoScan Toolbox

User's Guide

for Macintosh

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1. Introduction

This User's Guide describes the features and functions of the CanoScan Toolbox for Macintosh.

About the CanoScan Toolbox

The CanoScan Toolbox provides easy-to-use scanning and image editing functions you can use to scan, edit and integrate digital images into a variety of applications (i.e., email, fax, desktop publishing, word processing, etc.). You can also use the CanoScan Toolbox to instantly fax or copy scanned documents with a click of the mouse. The advanced image enhancement features provided by the CanoScan Toolbox let you adjust the color balance, contrast and brightness, image sharpness and more, so you can create high-quality images.

In addition to the CanoScan Toolbox, the Canon Plug-in Module CS plug-in is also included in the CanoScan Setup Utility CD-ROM. It provides an interface to the scanner. The Canon Plug-in Module CS plug-in launches when you click the Scan button from the CanoScan Toolbox. After the scan process is complete, the plug-in closes and you are returned to the CanoScan Toolbox so you can edit, fax, copy or integrate the image into other applications.

Obtaining Customer Support

If you are having problems setting up or running the CanoScan Toolbox CS, contact the Canon help desk at one of the following locations:

CANON COMPUTER SYSTEMS, INC.

2995 Redhill Avenue
Costa Mesa, CA 92626, U.S.A.
1-800 OK CANON
<http://www.ccsi.canon.com>

CANON (UK) LTD.

Woodhatch, Reigate
Surrey RH2 8BF, United Kingdom
For technical support, please contact Canon Helpdesk.

Helpdesk:

P.O. Box 431, Wallington, Surrey SM6 0XU
TEL: (08705) 143 723
FAX: (08705) 143 340
For sales enquiries: (0121) 666-6262

CANON FRANCE S.A.

17, quai du Président Paul-Doumer
92414 Courbevoie Cedex, France
Tél.01 4199 7777
Fax.01 4199 7951
Hotline:
Tél.01 4199 7070

CANON DEUTSCHLAND GmbH

Postfach 528, 47705 Krefeld, Germany
CANON- Hotline-Service
Customer Support: (0 21 51)349-555
Info-Desk: (0 21 51)349-566
Mailbox: (0 21 51)349-577
Telefax: (0 21 51)349-588

CANON ITALIA S.p.A

Palazzo L, Strada 6,
20089 Milanofiori-Rozzano (MI), Italy
TEL: 02/8248. 1
FAX: 02/8248. 4604
Pronto Canon 02/8249. 2000
<http://www.canon.it>

CANON OY AB

Korнетintie, 3, 00380 Helsinki, Finland
Puhelin: 010 544 20
Help Desk: 0600-0-22606 (maksu 14,80 mk/min)
Fax: 010 544 4571

CANON SVENSKA AB

Stensättravägen 13, S-127 88, Skärholmen
Sweden

CANON DANMARK

Vasekær 12, DK-2730 Herlev, Denmark
Hotline: 44 88 26 66
<http://www.canon.dk>

CANON NORGE AS

Hallagerbakken 110, Boks 33, Holmlia 1210 Oslo
12, Norway
Tlf: 2262 9321
FAX: 2262 0615

CANON BENELUX NEDERLAND N.V.

Neptunusstraat 1, 2132 JA Hoofddorp
The Netherlands
Tel: 023-5 670 123
Fax: 023-5 670 124
Helpdesk: 023-5 681 681

CANON BENELUX BELGIUM N.V./S.A.

Bessenveldstraat 7, 1831 Diegem, Belgium
Tel: 02 7220411
Fax: 02 7213274
Helpdesk: 02 7220404

CANON GmbH

Zetschegasse 11, 1232 Wien, Austria

CANON (SCHWEIZ) A.G.

Industriestrasse 12, CH-8305 Dietlikon
Switzerland
Tel: (01)835 61 61
Fax: (01)835 68 60
Hotline: 157 30 20

CANON ESPAÑA S.A.

C/Joaquin Costa No 41, 28002
Madrid, Spain
HelpDesk: 906-301255
Tel.: 91-5384500
Fax.: 91-4117780

CANON AUSTRALIA PTY. LTD.

1 Thomas Holt Drive, North Ryde, Sydney N.S.W.
2113, Australia
Info-Line: (02)9805 2864

CANON NEW ZEALAND LTD.

Fred Thomas Drive, Takapuna
P.O. Box 33-336 Auckland, New Zealand
Info-Line: 0900-522666

CANON HONGKONG CO., LTD.

9/F, The Hong Kong Club Building
3A Chater Road, Central, Hong Kong
Tel: (852)2739 0802
Fax: (852)2739 6428

CANON SINGAPORE PTE. LTD.

79 Anson Road #09-01/06
Singapore 079906

CANON MARKETING SERVICES PTE. LTD.

2, Alexandra Road, #04-01A
Delta House
Singapore 159919
Tel: 65 2735311
Fax: 65 2733317

CANON MARKETING (MALAYSIA) SDN. BHD.

Wisma General Lumber Block D, Peremba Square
Saujana Resort, Section U2, 40150 Shah Alam
Selangor Darui Ehsan, Malaysia
Tel: 603-744-6000
Fax: 603-745-0505

CANON MARKETING (THAILAND) CO.LTD.

2nd Floor, Indosuez House
152 Wireless Road, Bangkok 10330
Thailand
Tel: 66-2-6514000
Fax: 66-2-6514096

CANON MARKETING (PHILIPPINES) INC.

Marvin Plaza Building,
2153 Don Chino Rocas Ave,
Makati City, Metro Manila, Philippines
Tel: 632-812-6047
Fax: 632-812-0067/810-9797

CANON CANADA, INC.

6390 Dixie Road Mississauga
Ontario L5T 1P7, Canada
1-800 OK CANON (652-2666)
<http://www.canon.ca>

CANON LATIN AMERICA, INC.

6505 Blue Lagoon Drive Suite 325
Miami, Florida 33126, U.S.A.

CANON EUROPA N.V.

P.O. Box 2262
1180 EG Amstelveen, The Netherlands

CANON INC.

30-2 Shimomaruko 3-chome, Ohta-ku
Tokyo 146-8501, Japan

2. Installing the CanoScan Toolbox

System Requirements

The following indicates the minimum CanoScan Toolbox system requirements:

Computers:	Power Macintosh which standardly equips the proper interface for connection with the scanner (Macintosh compatibles are not supported)
System:	Mac OS 8.5 or later
Memory Requirements:	32 MB or more (64 MB or more recommended)
Hard Disk Space:	50 MB (5 MB for the application and 40-50 MB to store scanned images)

Installing the CanoScan Toolbox

Installing the CanoScan Toolbox is very simple.

To install the CanoScan Toolbox:

1. Insert the CanoScan Setup Utility CD-ROM accompanied with the scanner into your CD-ROM drive. Inserting the CanoScan Setup Utility CD-ROM automatically displays the main menu.
2. Choose the **Install the Software** command from the main menu and select the **CanoScan Toolbox** option.
3. Follow the on-screen instructions to start the installation. Drag the CanoScan Toolbox icon with the mouse, and drop on the icon of the hard disk drive to start install.
4. When you finish the installation, click [Finish].

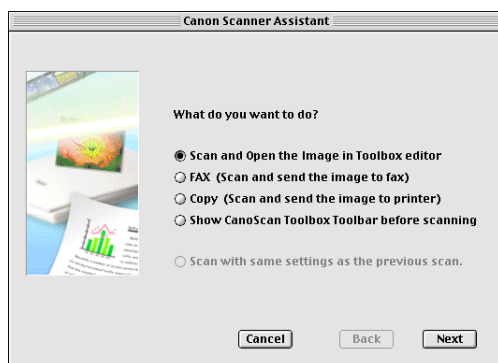
Installing the Plug-in

You should locate the Plug-in Module CS in the same folder where the CanoScan Toolbox locates. When you install the Plug-in Module CS with the CanoScan Setup Utility CD-ROM, you should specify also the folder name where the CanoScan Toolbox locates (usually CanoScan Toolbox).

3. Starting CanoScan Toolbox - with Start Buttons

Pressing the Start Button on front of the scanner or the Film Scan Button on the document cover, CanoScan Toolbox starts and the Canon Scanner Assistant will be displayed.

Pressing the Start Button on front of the scanner shows the assistant for scanning the photos or documents from the platen while pressing the Film Scan Button on the document cover shows the assistant for scanning the films from the film adapter unit.



[Scan and Open the Image in Toolbox editor], [FAX](not available when you press the Film Scan Button on the document cover), [Copy], [Show CanoScan Toolbox Toolbar before scanning], [Scan with same settings as the previous scan] are the options. Select one from the dialog and click [Next].

Several setting dialogs (the numbers of the dialogs and the content differs from the functions) are displayed. After setting these dialogs, the function starts.

4. Starting CanoScan Toolbox - with Double-clicking the icon

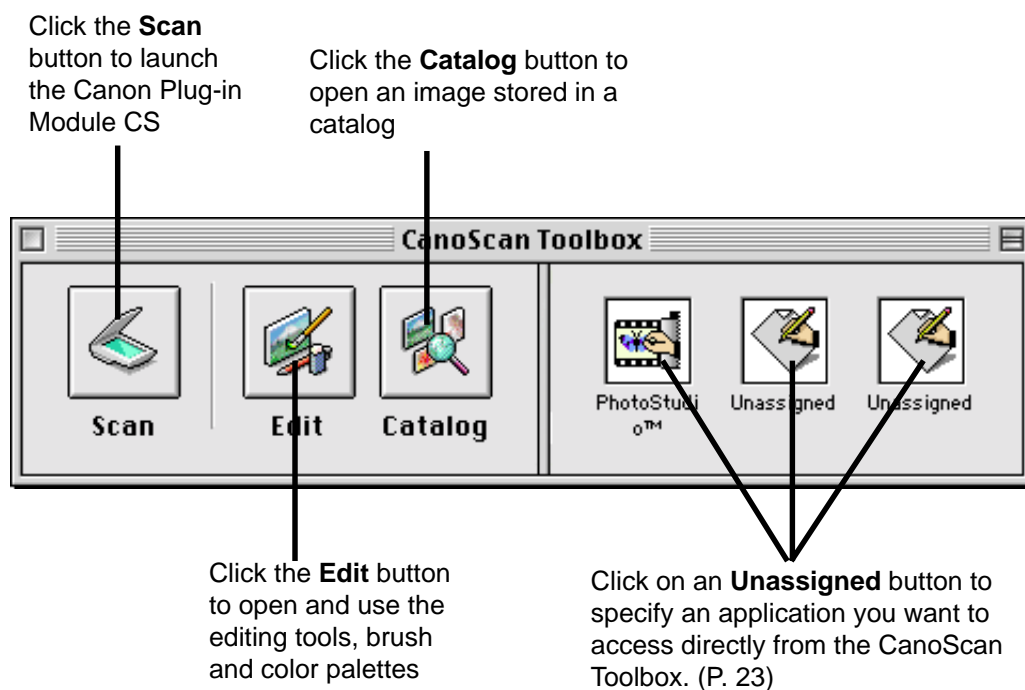
You can also start CanoScan Toolbox with double-clicking the CanoScan Toolbox icon in the [CanoScan Toolbox] folder.

With this method of starting, the CanoScan Toolbox toolbar is displayed (if the toolbar was displayed when closing last time). Or CanoScan Toolbox is loaded into the memory (if the toolbar was not displayed when closing last time). In this case, click [CanoScan Toolbox] from the [Window] menu to display the toolbar.

You may also display the toolbar with selecting [Show CanoScan Toolbox Toolbar before scanning] option in the Canon Scanner Assistant.

To disappear the toolbar, click the close button on the top-left.(Click [CanoScan Toolbox] from the [Window] menu to re-display the toolbar.)

On the toolbar, there are buttons to execute the functions.



5. Selecting the Scanner

When one or more scanners are connected to your computer, you can select which scanner to use with the CanoScan Toolbox.

Select the scanner in the submenu of the Select Scanner command from the File menu.

6. Scanning

Once the scanner is connected and the software is installed you are ready to scan. The scanning process is very simple.

To scan a document:

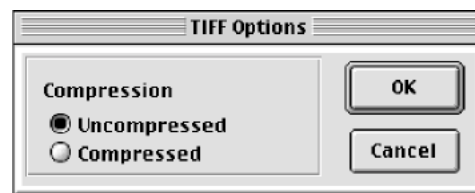
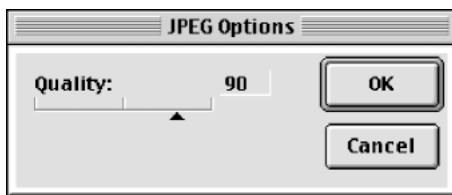
1. Place the photo, document or film on the scanner as indicated in the scanner documentation.
2. Select [Scan and Open the Image in Toolbox editor] option from the Canon Scanner Assistant, or click on the **Scan** button from the toolbar, or choose the **New Scan** command from the File menu.
3. The Canon Plug-in Module CS opens so you can select your scan settings.
4. Click the **Preview** button to preview the scanning area.
5. Click the **Scan** button to scan the document. The plug-in closes and the scanned image appears in a new CanoScan Toolbox Image window.
6. Choose the **Save** command from the File menu to save the scanned image.

7. Saving Scanned Images

You can save an image that you scan and/or edit in the CanoScan Toolbox.

To save an image for the first time:

1. Choose **Save** from the File menu.
2. Enter a file name and select the folder and drive in which you want to save the image.
3. Specify the image format. When you choose JPEG or TIFF formats, an Options dialog box appears so you can specify the compression level.



4. Click **OK**.

To save changes to an image that has already been saved on your computer, choose the Save command from the File menu.

To save a file with a different name, to a different location or in a different file format, use the Save As command.

8. Opening Files

Opening a Stored File

You can store image files that you have scanned as well as other image files using the CanoScan Toolbox.

To open a stored file:

1. Choose the **Open Image** command from the File menu, or click the **Edit** button in the CanoScan Toolbox toolbar. The Open Image dialog box appears.
2. Select the desired file and click the **Open** button. The selected file opens in an image window.

Opening a New Image Window

When you choose the New Image command from the File menu, an empty image window appears. You can create a new image by pasting data into or drawing directly in the image window. The image window remains Untitled until you save the data to a file.

9. Faxing a Scanned Image

Using the CanoScan Toolbox, your scanner and a computer-based fax application, you can fax virtually anything from your computer.

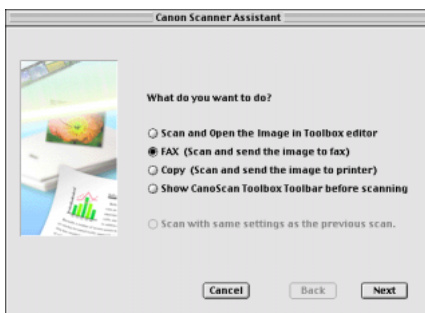
This function is available only when you start CanoScan Toolbox with pressing the Start Button on front of the scanner.

Film cannot be faxed.

Scanning and Faxing a Document

To scan and fax a document:

1. Place the document you want to fax in the scanner.
2. Press the Start Button on front of the scanner to start CanoScan Toolbox.
3. Select [FAX] in the Canon Scanner Assistant dialog and click [Next].



4. Select either [Color Photo] or [Line Art] and click [Next].



5. The original is scanned. The fax driver launches and the scanned image will be faxed.

Selecting the Fax Driver

To select the fax driver (only required the first time you fax from the CanoScan Toolbox):

1. After the step 4 above, [Select a Fax Driver] dialog will be open. Click to highlight the driver and click [Open].

To change the fax driver, delete the **CanoScan Toolbox Prefs** file in the **Preferences** folder in the **System Folder**. Then set the new driver with the method above. Here, all other settings will be initialized.

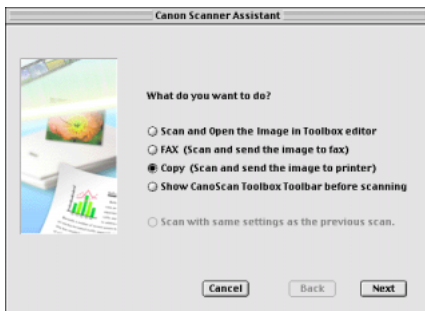
10. Printing Copies of a Scanned Image

You can use your scanner and printer to make black and white or color copies of any scanned image. This function is available only when you start CanoScan Toolbox with pressing the Start Button of the scanner.

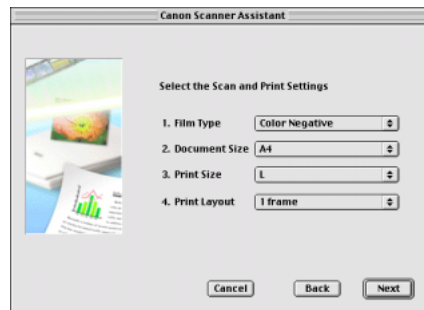
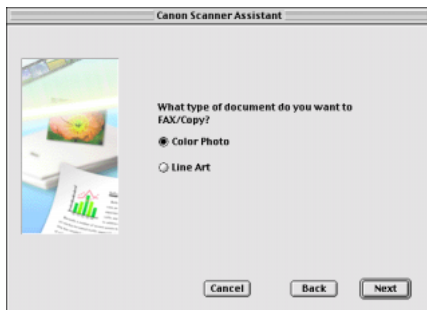
Copying a Document

To copy documents using your scanner and printer:

1. Place the document or the film you want to copy in the scanner.
2. Press the Start Button on front of the scanner to start CanoScan Toolbox.
3. Select [Copy] in the Canon Scanner Assistant dialog and click [Next].



4. Select either [Color Photo] or [Line Art] and click [Next] (When you started CanoScan Toolbox with pressing the Start Button on front of the Scanner). Or specify Film Type, Document Size, Print Size and Print Layout, and click [Next] (When you started CanoScan Toolbox with pressing the Film Scan Button on the document cover).



5. Printer setting dialog is displayed. Specify the number of copies to print and so on, and click [Print].
6. The original is scanned. The scanned image will be printed.

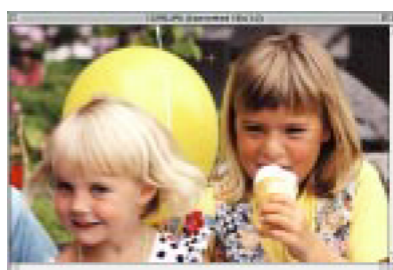
11. Enhancing a Scanned Image

The CanoScan Toolbox provides a wide variety of imaging tools you can use to modify and enhance images you scan.

Cropping a Scanned Image

To crop an image:

1. Open the image you want to crop by choosing **Open Image** from the File menu, or click the **Scan** button from the CanoScan Toolbox toolbar.
2. Select either the **Rectangle Select** tool (to select regular shapes) or the **Lasso** tool (to select irregular shapes) from the editing toolbox and move the cursor over the image window.
3. Click and drag the cursor over the image, so the portion of the image you want to keep is contained inside the selection area.



4. Choose **Crop** from the Image menu. The area outside of the selected portion of the image is discarded.

Changing the Image Viewing Size

To change the image viewing size:

1. Open the image you want to view using the **Open Image** command from the File menu, or scan a new image by clicking on the **Scan** button.
2. Choose the **Zoom In** or **Zoom Out** command from the Image menu, or click the **Magnifier** tool in the Editing toolbox.
3. Position the cursor over the image window and click to enlarge the view (**Zoom In**) or press the Option key and click the mouse to reduce the view (**Zoom Out**).

Zoom in on an image when you want to see more details in the image. Use the Zoom Out feature to see more of the image.

NOTE: Changing the image viewing size does NOT alter the actual image size. The zoom capabilities only modify the image display.

Inverting Image Tones

Inverting image tones makes a negative of the image.

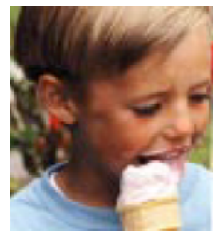
To invert the tones in an image:

1. Open the image you want to invert using the **Open Image** command from the File menu, or scan a new image by clicking on the **Scan** button.
2. Choose the **Invert** command from the Image menu.

Adjusting the Contrast and Brightness Settings

To adjust the contrast and brightness:

1. Open the image you want to adjust using the **Open Image** command from the File menu, or scan a new image by clicking on the **Scan** button.
2. Choose **Brightness/Contrast** from the Image menu. The Brightness/Contrast dialog box displays.



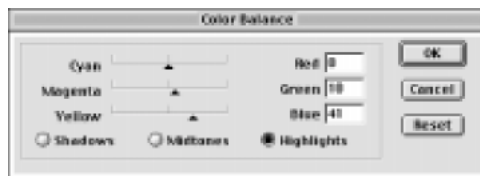
3. Adjust the settings by moving the slider to the left or right, or by entering a number. Brightness values range from -100 (dark) to 100 (light). Contrast values range from -100 (little contrast) to 100 (more contrast).
4. Click **OK** when you are finished, or **Reset** to return to the default image brightness and contrast settings.

Adjusting the Color Balance

You can use the Color Balance feature to adjust the colors in an image.

To adjust the color balance of an image:

1. Open the image you want to adjust using the Open Image command from the File menu, or scan a new image by clicking on the Scan button from CanoScan Toolbox toolbar.
2. Choose the Color Balance command from the Image menu.



3. You can adjust the blue, red and yellow colors by moving the applicable slider to the left (to decrease) or the right (to increase).
4. You adjust the color balance for specific color groups (i.e., modify the blue tones in the shadows of an image) by clicking on one of the radio buttons and then moving the Cyan slider.
5. Click **OK** when you are finished, or **Reset** to return to the default color balance settings.

Sharpening an Image

The CanoScan Toolbox CS Sharpen command has three options: **A Little**, **A Lot** and **Unsharp Masking**.

To sharpen an image or a selected portion of an image:

1. Open the image you want to sharpen using the **Open Image** command from the File menu, or scan a new image by clicking on the **Scan** button.
2. Click and hold the **Sharpen** command from the Image menu. Choose **A Little** from the Sharpen submenu for a slight change, or choose **A Lot** for a significant change. The Sharpen filter is automatically applied to the image.



Sharpened - A Little



Sharpened - A Lot

To use the Unsharp Masking command:

1. Open the image you want to sharpen using the Open Image command from the File menu, or scan a new image by clicking on the Scan button.
2. Click and hold the Sharpen command from the Image menu. Choose the Unsharp Masking selection from the Sharpen submenu.



3. Specify the percentage of sharpening you want in the Amount field.
4. Enter a number in the Radius field to specify the distance (in pixels) from an edge you want to sharpen. A low number indicates sharpening close to the image edges, and a higher number indicates sharpening farther away.
5. Enter a number in the Threshold field to specify the level at which pixels are sharpened.
6. Click **OK** to sharpen the image.

12. Editing a Scanned Image

CanoScan Toolbox provides a wide variety of editing commands and tools you can use to modify images.

Resizing a Scanned Image

Resizing an image changes the actual image size.

To resize an image:

1. Open the image you want to resize using the **Open Image** command from the File menu, or scan a new image by clicking on the **Scan** button.
2. Choose **Resize** from the Image menu.
3. Choose the unit type (pixels, inches or centimeters).
4. Type the desired size in the New Size section of the dialog box. Check Preserve Aspect Ratio to maintain the original image height and width ratio.
5. Click **OK** to resize the image.

Rotating an Image

You can use the Rotate commands to rotate all or part of an image 90°, 180° or specify the degree of rotation.

To rotate an image:

1. Open the image you want to rotate using the **Open Image** command from the File menu, or scan a new image by clicking on the **Scan** button.
2. Choose the **Rotate** command from the Image menu. Select one of the following rotation options:
 - 90° Left
 - 90° Right
 - 180°
 - Arbitrary Rotate (rotates the image to a specified setting)

Flipping a Scanned Image

To flip an image or a selected portion of an image:

1. Open the image you want to flip using the Open Image command from the File menu, or scan a new image by clicking on the Scan button.
2. Choose Flip from the Image menu, then select Vertical or Horizontal from the Flip submenu.



3. The image is automatically flipped.

Changing the Image Depth

You can change the actual image file size by changing the image depth.

NOTE: Changing the image depth does NOT change the image dimensions. It changes the saved file size.

To change the image depth:

1. Open the image you want to change using the Open Image command from the File menu, or scan a new image by clicking on the Scan button.
2. Choose the Image Depth command from the Image menu. Select one of the following image depth options from the Image Depth submenu:

Millions of Colors
Thousand of Colors
256 System Colors
256 Custom Colors
256 Shades of Gray
16 Shades of Gray
Black and white



Image depth reduced to 256 System Colors

3. The image depth is automatically changed to reflect your selection.

Using Plug-in

You can utilize CanoScan Toolbox effectively by using various image adjusting and enhancing functions of Plug-in Module CS. Refer to the Plug-in Module CS User's Guide bundled with your scanner for its installation and functions.

Using the Editing Commands

The commands on the Edit menu allow you to cut, copy, paste, clear, select all, deselect, and set scanning preferences for images.

Undo

To reverse the effects of a command you have selected, choose the Undo command.

Cut

To cut a portion of the image:

1. Select an area to cut using the select tool.
2. Choose the Cut command.

Copy

To copy a portion of the image:

1. Select an area to copy using the select tool.
2. Choose the Copy command.

Paste

To paste a selection onto the image:

1. Place the cursor where you want to put the selection.
2. Choose the Paste command.

Clear

To delete a portion of the image:

1. Select an area to delete by using the select tool.
2. Choose the Clear command.

Select All

To select everything in the image, choose the Select All command.

None

To deselect items you have selected using either the Lasso or Select tools, choose the None command.

Using the Editing Tools

The CanoScan Toolbox editing tools appear when you open an image. You can also control the palette display by using the **Show/Hide Tools** command from the **Window** menu.

To use an editing tool, click on the desired tool and then move your cursor over the image window. Notice that the cursor changes shape to reflect the tool you have selected.

The image editing tools included with the CanoScan Toolbox are described below:



Rectangle Select Tool: defines a rectangular area.



Lasso Tool: defines an irregular area.



Hand Tool: moves a picture in window.



Magnify/Zoom Tool: changes magnification level. Choosing Actual Size from the Image menu resets the image to the original image size.



Fill Tool: fills an area with color or a tile pattern.



Eraser Tool: erases to the background color.



Text Tool: adds text to annotate the picture.



Air Brush Tool: sprays smooth color.



Pencil Tool: draws freehand.



Clone Tool: paints with pixels from another area.



Paint Tool: paints freehand.



Foreground/Background Color Tool: replaces the foreground color with the background color.



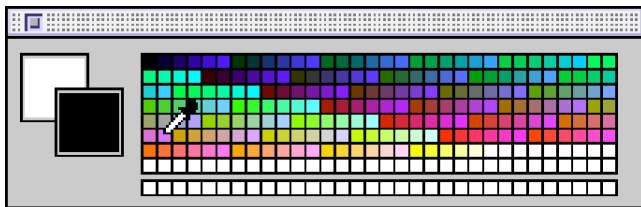
Smudge Tool: smears colors.

Using the Color Pallet

The CanoScan Toolbox color pallet appears when you open an image. You can also control the palette display by using the **Show/Hide Tools** command from the **Window** menu.

To select a color from the color pallet to use with the Fill, Air Brush, Freehand Paint or Pencil tools:

1. Move your cursor over the desired color block and click.



2. Select the desired editing tool and start editing with the selected color.

Note that the selected color appears in the Foreground/Background Color tool.

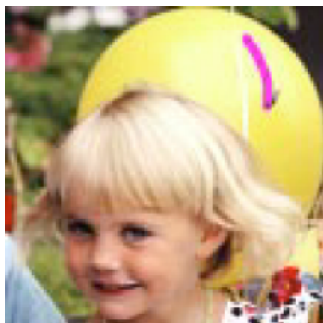
Selecting a Brush Size

The CanoScan Toolbox Brush Size window appears when you open an image. You can also control the palette display by using the **Show/Hide Brushes** command from the **Window** menu. The brush size controls the width of the selected editing tool.

To select a different brush size, click on the desired size and then on the tool you want to use.



Small brush



Larger brush



Brush palette

13. Working with Catalogs

Creating a Catalog

CanoScan Toolbox Catalogs are designed to let you look through many image files as you use a photo album. When you open the catalog it displays all the images stored in the catalog in thumbnail form.

To create a catalog:

1. Choose **New Catalog** from the File menu, or click the **Scan** button to scan a new image. The New Archive window appears.
2. Enter a catalog name.
3. Click the **Create** button. An empty catalog window opens. Now you can save related images to the new catalog.

Saving an Image to a Catalog

To save an image to a catalog:

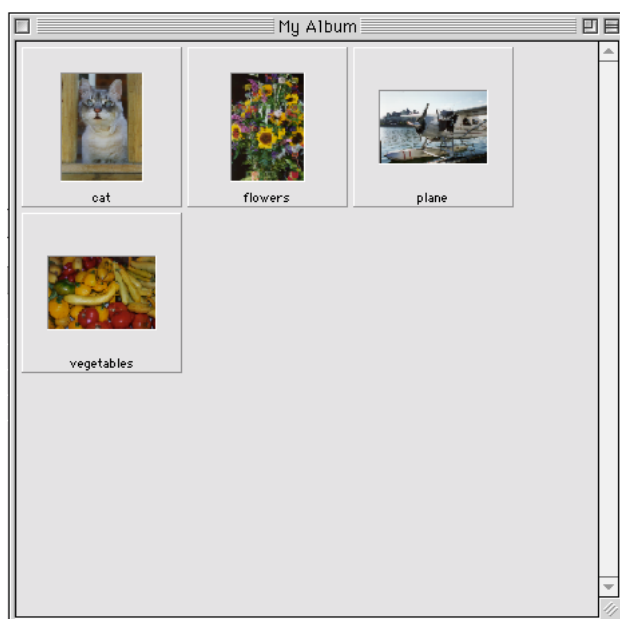
1. Create a new catalog.
2. Scan a new image or open a saved image.
3. Choose **Save As** from the File menu. Locate the catalog you created (catalogs appear as folders).
4. Double click to save the image in the catalog.

Viewing an Image Catalog

You can open a catalog so you can view and access the stored images.

To open a catalog window:

1. Choose **Open Catalog** from the File menu. The New Archive dialog box appears.
2. Select the desired catalog from the list box.



3. The selected catalog window opens displaying the images you have stored in the catalog in thumbnail form.
4. Choose the **View By** command from the Image menu to sort the thumbnails by name, type, date or size.

Printing the Catalog View

You can print the open Catalog window to see all of the stored images in thumbnail format similar to a traditional photographic contact sheet.

To print a catalog view:

1. Open the desired catalog window.
2. Choose the **Print Catalog View** command from the File menu.
3. Specify the number of copies to print and click the **Print** button.

Opening a Scanned Image from the Catalog

To open an image file you have stored in a catalog:

1. Open the catalog that contains the image you want to modify by choosing **Open Catalog** from the File menu.
2. Double-click on the desired image to open the Image window. The Editing toolbox, Brush Size pallet and Color Pallet windows open.

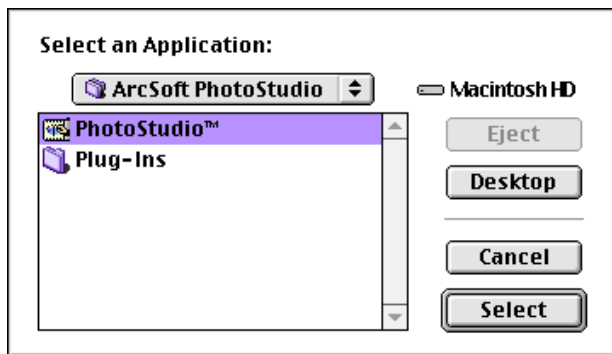
14. Linking and Using the Applications

You can link frequently used applications such as Optical Character Recognition (OCR), photo retouching and Email applications to the CanoScan Toolbox toolbar so you can access them from the CanoScan Toolbox.

To link an application:

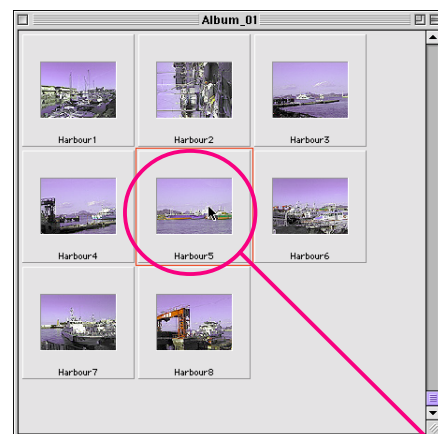
1. Click on one of the **Unassigned** buttons in the CanoScan Toolbox toolbar.
2. Select the executable file for the application you want to include in the CanoScan Toolbox toolbar.
3. Click **Select** to add the application to the CanoScan Toolbox toolbar.

The icon for the assigned application appears as a button in the CanoScan Toolbox toolbar.



To access the application you assigned to the main button bar, drag an image in the album onto the application icon.

The application launches so you can work with the image.



Drag and Drop

