Canon

Canon Solutions

CanoScan Toolbox CS

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1. Introduction

This User's Guide describes the features and functionality of the CanoScan Toolbox for the Macintosh,Version 1.0.

About the CanoScan Toolbox

The CanoScan Toolbox application 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 from your desktop.

In addition to the CanoScan Toolbox application, the Canon PI CS-S plug-in application is also included on the CanoScan Software Solutions CD-ROM. It provides an interface to the scanner. The Canon PI CS-S 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 application so you can edit, fax, copy or integrate the image into other applications.

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* Support program specifics to change without notice.

** Refer to individual product information for warranty details.

2. The CanoScan Toolbox Main Window

The first time you launch the CanoScan Toolbox, the CanoScan Toolbox Main window appears on the desktop. You can show or hide the Main window by using the CanoScan Tools command from the Window menu. The CanoScan Toolbox Main window contains buttons you use to control the CanoScan Toolbox features.

Click the **Scan** button to launch the Canon PI CS-S plug-in

Click the **Copy** button to scan and copy a document

Click the **Catalog** button to open an image stored in a catalog

Click the **Fax** button to scan and fax a document

Click the **Edit** button to open and use the editing tools, brush and color palettes

Click on an **Unassigned** button to specify an application you want to access directly from the CanoScan Toolbox

3. Using the Start Button

You can instantly access the CanoScan Toolbox from the scanner itself by pressing the button on the front of the scanner, just beneath the scanner cover.

If the CanoScan Toolbox application is closed, pressing the Start button on the front of the scanner launches the application.

4. 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 or document on the scanner as indicated in the scanner documentation.

2. Press the Start Button to launch CanoScan Toolbox CS.

3. Click on the **Scan** button from the Main window, or choose the **New Scan** command from the File menu.

4. The Canon PI CS-S plug-in opens so you can select your scan settings.

5. Click the **Preview** button to preview the scanning area.

6. Click the **Scan** button to scan the document. The plug-in closes and the scanned image appears in a new CanoScan Toolbox Image window.

7. Choose the **Save** command from the File menu to save the scanned image.

5. Saving Scanned Images

You can save any 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.
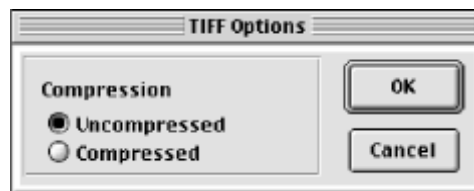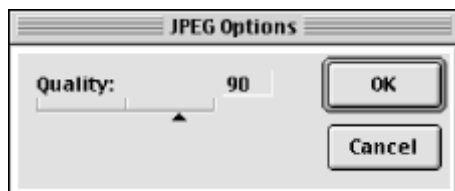
4. Click **OK**.

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.

6. 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 Main window. 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.

7. Faxing a Scanned Image

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

Setting the Fax Preferences

To set the optimum scanning preferences for faxing:

1. Choose **Scan Preferences** from the Edit menu.

2. Click the **Text/Line art** button in the Fax Settings area to fax text and line art documents, or click the **Photograph** button to fax photos. Click **OK**.

Selecting the Fax Print Driver

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

1. Click on the **Fax** button from the CanoScan Toolbox Main window.

2. Locate the fax driver in the Select a Fax Driver dialog box, click to highlight the driver and click **Open**.

Scanning and Faxing a Document

To scan and fax a document:

1. Place the document you want to fax in the scanner.

2. Click on the **Fax** button from the CanoScan Toolbox Main window.

3. The document is scanned. The selected fax driver launches the fax application so you can fax the scanned document.

8. 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.

Setting the Copy Preferences

To set the optimum scanning preferences for copying:

1. Choose **Scan Preferences** from the Edit menu.

2. Click the **Text/Line art** button in the Print Settings area to copy text and line art documents, or **Photograph** button to copy photos. Click **OK**.

Copying a Document

To copy documents using your scanner and printer:

1. Place the image you want to copy in the scanner.

2. Click the **Copy** button in the CanoScan Toolbox Main window. The Print Job dialog box opens.

3. Enter the number of copies you want to print in the Copies field.

4. Specify a page range.

5. Choose the paper source to print from a different source.

6. Click the **Print** button. The image is scanned and the number specified copies are printed.

Note: The information you enter in steps 3 through 5 above varies depending on the type of printer you are using.

9. Enhancing a Scanned Image

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

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 CanoScan Toolbox Main window.

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.

Text Tool: adds text to annotate the picture.

Eraser Tool: erases to the background color.

Pencil Tool: draws freehand.

Air Brush Tool: sprays smooth color.

Paint Tool: paints freehand.

Clone Tool: paints with pixels from another area.

Smudge Tool: smears colors.

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

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 Main window.

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 from the CanoScan Toolbox Mail window.

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

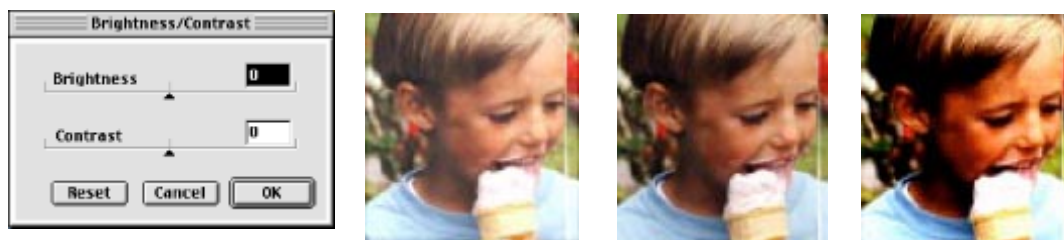Inverting image tones makes a negative of the image.

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 from the CanoScan Toolbox Main window.

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 from the CanoScan Toolbox Main window.

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 Main window.

2. Choose the **Color Balance** command from the Image menu.
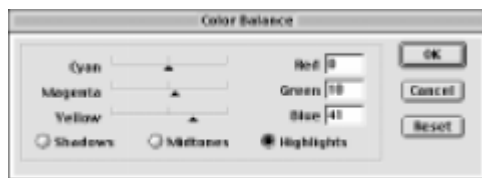
3. You can adjust the blue, red and yellow colors by moving the applicable slider to the left (to decrease) or the right (to increase).

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 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 from the CanoScan Toolbox Main window.

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 from the CanoScan Toolbox Main window.

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.

10. 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 from the CanoScan Toolbox Main window.

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.

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 from the CanoScan Toolbox Main window.

2. Choose **Flip** from the Image menu, then select **Vertical** or **Horizontal** from the Flip submenu.

3. The image is automatically flipped.

Rotating an Image

You can use the Rotate commands to rotate all or part of an image 90º, 180º, 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 from the CanoScan Toolbox Main window.

2. Choose the **Rotate** command from the Image menu. Select one of the following rotation options:

> 90º Left
> 90º Right
> 180º
> Arbitrary (rotates the image to a specified setting)

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 from the CanoScan Toolbox Main window.

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 Effects

You can increase the functionality of the CanoScan Toolbox by adding image enhancement effects that you can use to modify images. You add effects to the CanoScan Toolbox using plug-in applications. These applications are available from a wide-range of software manufacturers. For information about installing the plug-in and using the effects with images, refer to the plug-in documentation.

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 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 CanoScan Toolbox Main window. The color pallet displays all the colors that are contained in the open image.

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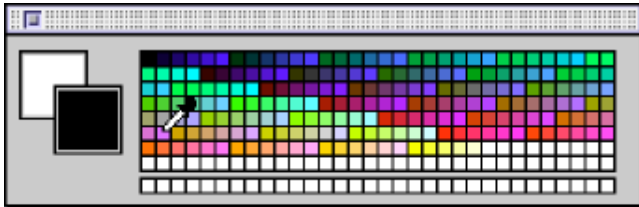
2.   Select the desired editing tool and start editing with the selected color.

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 CanoScan Toolbox Main window. 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

11. Working with Catalogs

Creating a Catalog

CanoScan Toolbox catalogs are designed to let you create logical groupings to store your images so you can easily retrieve them later. When you open the catalog it displays all the images stored in the catalog in thumbnail form (reduced versions of the image).

To create a catalog:

1. Choose **New Catalog** from the File menu. 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.

12. Linking Applications to the CanoScan Toolbox

You can link frequently used applications such as Optical Character Recognition (OCR), desktop publishing, and Email applications to the CanoScan Toolbox Main window so you can access them from the CanoScan Toolbox application.

To link an application:

1.   Click on one of the **Unassigned** buttons in the CanoScan Toolbox Main window.
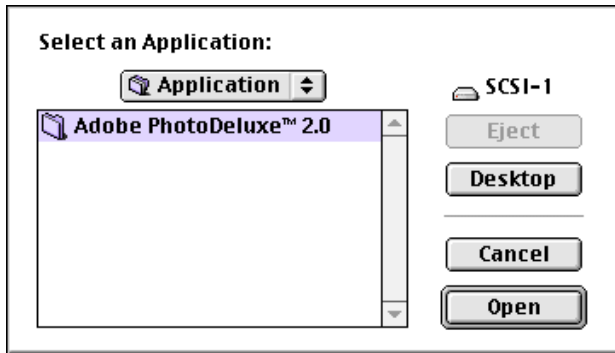
2.   Select the .exe file for the application you want to include in the CanoScan Toolbox Main window.

3.   Click **Select** to add the application to the CanoScan Toolbox Main window.

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

To access the application you assigned to the main button bar, drag an image onto the application icon. The application launches so you can work with the image.