

## DeskScan II Help

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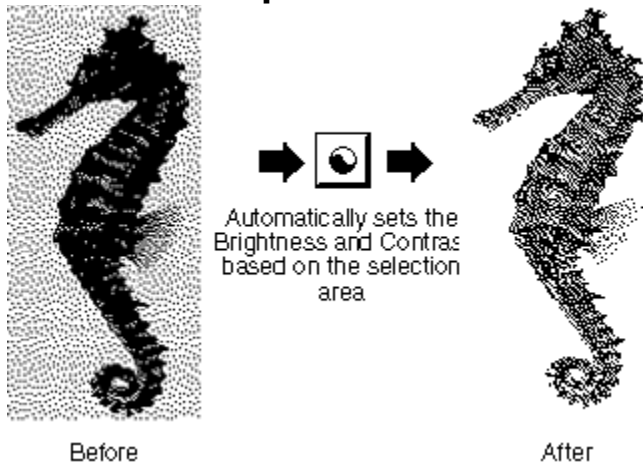
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## Automatic Exposure



A button in the front panel that selects exposure settings for the image being scanned.

Before Automatic Exposure can be used, a selection area must be created in the Preview Area.

### To use Automatic Exposure

1. Click Preview, if you have not already.
2. Create a selection area.
3. Click the Automatic Exposure button.

The Automatic Exposure settings are set for the part of the image in the selection area only. The settings, however, affect the entire image in the Preview Area.

The exposure settings that are affected by Automatic Exposure include Brightness, Contrast, and Highlight and Shadow.

### To return to default values

Adjust the Brightness and Contrast controls to a setting of 125.

For more information about using Automatic Exposure, refer to your User's Guide.

### Automatic Exposure and Automatic Find

When Automatic Find is active, DeskScan II will automatically perform Automatic Exposure on the image after it does a Preview Scan. Automatic Find is turned on or off with a check box in the Preferences dialog under the Edit menu.

## **Automatic Find**

A feature of DeskScan II software that automatically creates a selection area around the image during a Preview scan, performs Automatic Exposure on the image in the selection area, and selects an image type for the image. The selection area can be adjusted, if necessary, by dragging the sides to new positions. If the selection area is altered, click the Automatic Exposure button to re-adjust the brightness and contrast for the selected portion of the image. The image type can also be changed by selecting a new image type in the Type pop-up on the front panel.

Automatic Find functions only when there is no selection area already drawn in the Preview Area. It is turned on or off with a check box in the Preferences dialog under the Edit menu.

If you are scanning more than one image and want to take advantage of Automatic Find, delete the selection area after you finish each scan by clicking outside the selection area.

The Automatic Find feature does not take up additional memory or slow the operation of the DeskScan II software.

### **Related topics:**

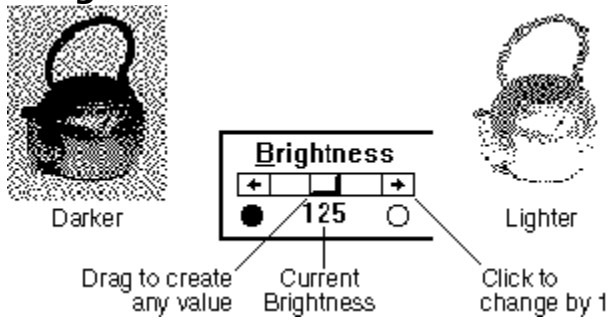
[Setting Automatic Find for Preview scans](#)

[Setting Automatic Exposure for Preview scans](#)

[Setting Automatic Type for Preview scans](#)

[Setting the default type for Preview scans](#)

## Brightness



A control located in the front panel that changes the lightness or darkness of a scanned image.

For example, at a higher Brightness setting, the scanned image becomes lighter. At a lower Brightness setting, the image becomes darker.

The effects of adjusting Brightness can be seen immediately in the Preview Area if Live Preview is on.

To change the brightness setting, click or drag on the Brightness control. The Brightness settings range from 1 to 250. The default setting is 125.

### **Related topics:**

Automatic Exposure

Contrast

Highlight and Shadow

## Calibration

A process that compensates for the effects that particular printers, screens, and software applications can have on the scanned image's appearance after it is printed or when it is displayed on a monitor screen. DeskScan II allows you to adjust for these effects by calibrating the monitor screen, the printer, and the application package used to print the image, such as PageMaker.

For best results displaying scanned images, calibrate your monitor by selecting Screen Calibration, from the Help menu.

For best results printing scanned images, use the pre-calibrated print paths found in the Path pop-up menu on the front panel.

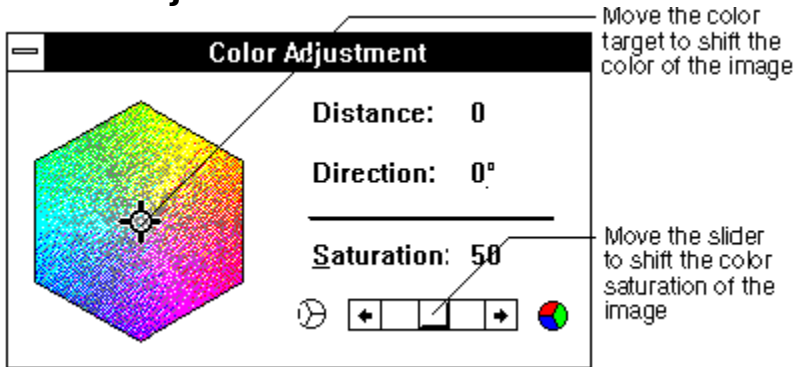
You can also calibrate a printer or a print path that does not appear in the pop-up menu on the front panel.

### **Related topics:**

Screen Calibration

Calibrating a print path

## Color Adjustment



A tool available in the Tools menu that can be used to adjust hue and saturation. The Color Adjustment tool can be moved anywhere on the screen.

A Final Scan must be done prior to closing the Color Adjustment tool for the hue and saturation changes to affect the scanned image file. When the tool is closed, the hue and saturation settings change back to the default settings.

All the adjustments made with the Color Adjustment tool are visible immediately in the Preview Area if Live Preview is on.

### To adjust hue

1. Move the pointer over a desired color inside the color hexagon.
2. Click the mouse button.
3. View the results of the adjustment in the Preview Area.

### To adjust saturation

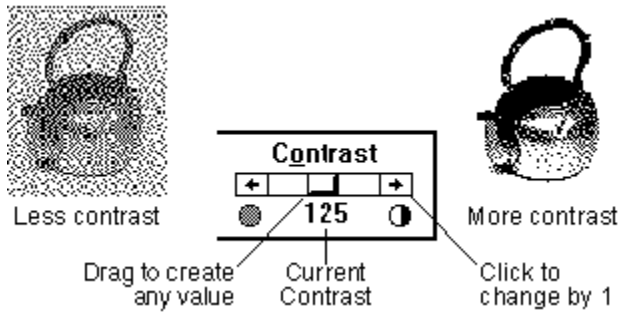
1. Click on one of the arrows at either end of the saturation control.
2. View the results in the Preview Area.

### To return to the default settings

Close the tool window.

If you are using an HP ScanJet Plus Scanner, the Color Adjustment tool is unavailable.

## Contrast



A control in the front panel that adjusts the difference between the light and dark areas of an image.

For example, on a monochrome monitor the highest contrast setting displays every dot in the image as black or white. The lowest contrast setting displays only gray dots -- no black or white.

The effects of changing the Contrast setting can be seen in the Preview Area if Live Preview is on.

To change the contrast level, click or drag the Contrast control to a new position. The settings range from 1 to 250. The default setting is 125.

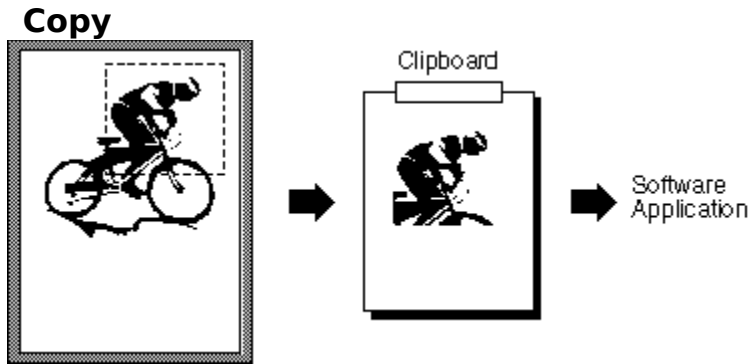
### **Related topics:**

[Automatic Exposure](#)

[Brightness](#)

[Highlight and Shadow](#)





The Copy command scans the portion of the image in the selection area to the Clipboard.

To scan to the Clipboard, select Copy from the Edit menu.

Although the Clipboard is often the easiest and quickest way of moving images to another application, the Clipboard is limited in the kinds of images it can transport. The limitations of the Clipboard are usually determined by the applications used with the Clipboard.

For simple black and white drawings, the Clipboard works well. For other kinds of images, you may need to use Final or Save to have DeskScan II send the scanned data directory to a file.

## Custom Image Size

A menu command for creating, selecting, or removing a custom image size and for changing the units of measure.

### To create a custom image size

1. Type a measurement in the Width box.
2. Type a measurement in the Height box.
3. Type a name for the custom size in the Name box and click Add (optional).
4. Click OK.

If you perform step 3, the image size is saved as a selection in the list box in the upper right corner of the dialog. You can select the image size later by clicking on it.

After step 4, a selection area with the desired dimensions is created in the Preview Area. Drag the selection area over the portion of the image that you want to scan.

### To remove a custom size

To remove a custom size from the box in the upper right corner of the dialog, select the name of the Custom Image Size and click Remove.

### Locking issues

If Lock is active when a custom image size is set, the new image size becomes locked.

### To change the units of measure

1. Select the unit of measure from the Units pop-up menu.
2. Click OK.

### Related topics:

[Locking an Image Size](#)

[Scaling an Image to Fit a Specific Size](#)

## Custom Image Type

Allows for customizing of the selections in the Type pop-up menu in the front panel.

A Custom Image Type is composed of a Color Content selection and Style selections. The selections include gray-level and color choices, halftone patterns, drawing options, and sharpening levels.

A box in the upper right corner of the dialog shows the available image types. An image type with a diamond in front of it is a standard image type. Other image types may have been added.

Once a new image type is added, its name is included in the box and in the Type pop-up menu. The new image type automatically becomes the selected image type.

### To create a custom image type

1. Click Black and White or Color from the Color Content section.
2. Click Drawing, Halftone, or Photo in the Style section.
3. Select options from any of the pop-up menus that are available.
4. Type a name in the Name box and click Add (optional).
5. Click OK.

In step 3, some pop-up menus are unavailable because they are inappropriate for the selections already made or because the menu selection is made automatically.

If you perform step 4, the image type is saved as a named custom image type and is available until it is removed. If step 4 is omitted, the new image type is available only until DeskScan II is closed. An unnamed image type is referred to as "Custom" in the Type pop-up menu.

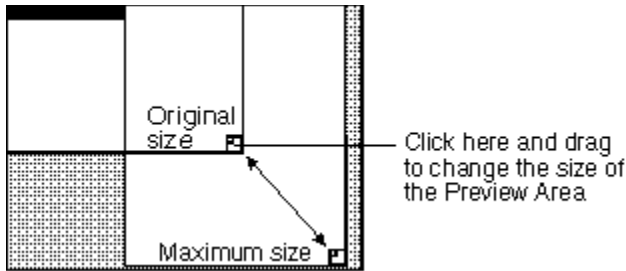
Checked image types are ones that appear in the Type pop-up menu. They can be removed from the Type pop-up menu in the front panel by clicking on the check.

### To remove a custom image type

1. Select an Image Type in the box in the right corner of the dialog.
2. Click Remove.

Image types with diamonds in front of them are standard image types and cannot be removed. You can use them, however, as templates for creating your own custom image types.

## Custom Preview Size



A menu command for changing the size of the Preview Area. The Preview Size dialog also shows the amount of memory required for the current size of the preview area.

### To change the size of the Preview Area

The two rectangles in the Screen section represent the front panel and the preview area. Drag the bottom right corner of the right rectangle to change the size of the preview area.

One reason to change the size of the Preview Area is to allow for a larger Preview Scan or Zoom Scan. By enlarging the Preview Area, you display the image on a larger area of the screen, which increases the amount of detail that you can see.

Alternately, one reason to reduce the size of the Preview Area is to minimize the amount of memory being consumed by DeskScan II.

### To minimize memory usage

1. From the Edit menu, select Preferences.
2. Click the Color Preview check box to turn off Color Preview if it is on.
3. Click the Live Preview check box to turn off Live Preview if it is on.
4. Click OK to save the new settings and close the Preferences dialog.
5. Reduce the preview area size.

Black and white Live Preview requires only one-third as much memory as color Live Preview.

Live Preview uses system memory first and then disk space if needed. If the Preview Area is using disk space, the speed of DeskScan II becomes slower.

## Custom Print Path

A menu command used to add custom print paths for particular scanning and printing situations. A custom print path includes a resolution setting, and a calibration for a particular output device and application such as PageMaker. Once a custom print path is given a name and added to the other print paths, it is included in the box in the upper right side of the Custom Print Path dialog box and in the Path pop-up menu in the front panel.

Print paths with diamonds in front of them are standard print paths and cannot be removed. You can use them, however, as templates for creating your own custom print paths.

### Related topics:

[Adding a print path](#)

[Removing a print path](#)

[Resolution](#)

[Calibration](#)

[Calibrating a Print Path](#)

## **Custom Print Path dialog**

The custom Print Path dialog box lets you select an existing print path or create your own custom print path. To create a custom print path you must enter the appropriate resolutions for the path and then calibrate the print path or select an existing calibration and create a new print path name.

### **Related topics:**

Resolution

Calibration

## Drawing options



Spot Color



Detailed

Options for scanning drawings, line art, and spot color images. Drawing options are selected in the Custom Image Type dialog.

### Options

- \* Spot Color
- \* Detailed

The standard option for black and white drawings is Detailed. The standard option for color images is Spot Color.

### Spot Color

Spot Color identifies the dominant colors in an image and changes each scanned dot in the image to match one of those colors.

Use the Spot Color option when scanning images containing a few solid colors and when you plan to edit the image in an image editor. With Spot Color selected, the scanning process creates an image file with large areas of a single color rather than dappled colors that need to be edited pixel by pixel.

Spot color can also be used effectively to scan black and white images that have just a few shades of gray.

Using Spot Color to scan color images can save you time and work if you plan to edit the image. However, even with Spot Color, you will need to do some editing to match the colors. Also, the scanner takes longer than usual to scan and process an image when Spot Color is used.

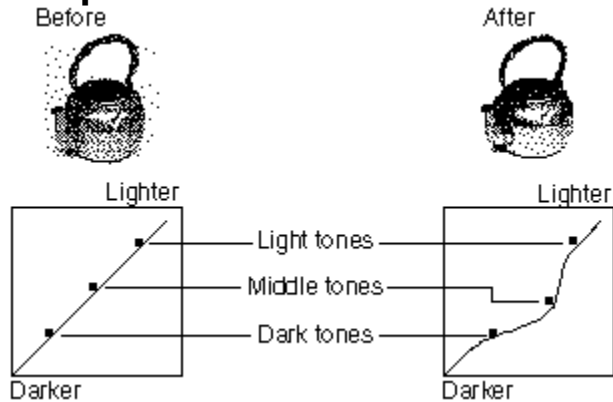
Sharpening options are unavailable when Spot Color is selected.

### Detailed

Detailed matches all the scanned dots to one of the colors of a standard set. For example, if black and white is selected, then every dot is either black or white. If 16 colors are used, then each dot is adjusted to the nearest color.

Use Detailed to scan black and white line art, such as logos and text. Sharpening can be used with the Detailed option.

## Emphasis



A tool used to adjust the midtones in an image. The Emphasis tool is available from the Tools menu and can be moved to any part of the screen.

The Emphasis tool is intended for experienced scanner users. The tool contains a tone map with three control points. The bottom control point adjusts the darker shades and the upper control point adjusts the lighter shades.

A pop-up menu at the bottom of the tool window offers pre-defined Emphasis settings which adjust the control points to achieve a specific effect. New selections can be saved and added to the pop-up menu.

### To use the Emphasis tool

1. Position the pointer on one of the control points in the tool window.
2. Drag the control point to a new position.
3. Click Apply.
4. Click Save and type a name (optional).

After Apply is clicked, Live Preview shows the results of new Emphasis settings in the Preview Area.

A Final Scan must be done prior to closing the Emphasis tool for the changes to affect the scanned image file. When the tool is closed, the Emphasis settings change back to the default settings.

Refer to your User's Guide for more information about the Emphasis tool.

### To return to the default Emphasis settings

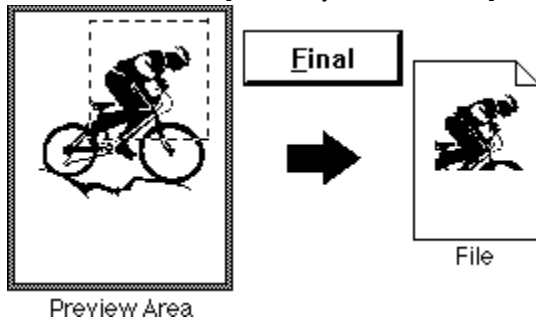
Select Normal from the pop-up menu and then click Apply. Another way to return to the default settings is to close the Emphasis tool.

### Remove

The Remove button deletes an option from the pop-up menu. (Remove does not eliminate the effects in the Preview Area caused by using the Emphasis tool.)



## Final Scan (Save, Save As)



A button in the front panel that saves the selected portion of an image to a file.

The Final button and the Save and Save As commands in the File menu are nearly equivalent. The difference is that the Save command automatically saves the image to the last file name entered.

Usually, a selection area is created in the Preview Area prior to a Final Scan. If a Final Scan is done without a selection area, the entire scanner copyboard is scanned and saved.

### To save a file

1. Click Final.
2. Select the file format.
3. Type the file name.
4. Click Save.

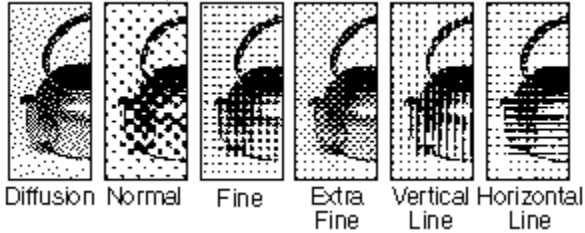
In step 1, Save or Save As can be used instead of Final.

Be sure to keep the image in the same place on the scanner copyboard during the scanning process to ensure a good scan. Final Scan does not re-paint the image to the screen. Instead, the Preview Scan or Zoom Scan image remains in the Preview Area.

In the Save Image dialog, several file formats are provided. Select one that is accepted by the application(s) you intend to use with the scanned image.

## Halftone options

Halftone Examples



Halftones are a style of scanning that uses dot patterns to simulate the many shades in a photograph. Halftones are used to print photos on desktop printers that can print only a small range of colors or just black.

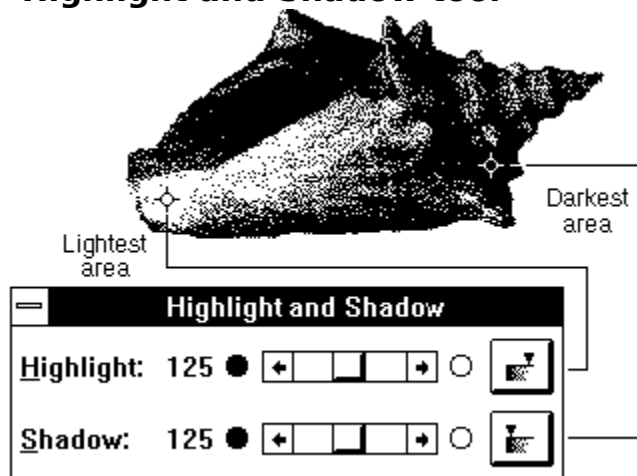
Use a halftone image type if the image is to be printed on a desktop printer, and you do not intend to edit the image. Do not use image editing software to resize or adjust the color or tone of halftones.

Halftone options are available in the Custom Image Type dialog. Each halftone pattern has a different effect when used with a photo. Samples shows how a photo looks when scanned with each halftone pattern and printed.

Diffusion is the default option and often provides the best scanned image. Use Normal if the image is to be photocopied.

Refer to your User's Guide for more information about halftones and for printed examples.

## Highlight and Shadow tool



A tool for adjusting the highlight and shadow points in an image. The Highlight and Shadow tool is available from the Tools menu. The tool can be moved anywhere on the screen.

The Highlight and Shadow tool provides a way to adjust the exposure settings. Exposure can also be set with Automatic Exposure, Brightness, and Contrast.

### To adjust the highlight and shadow points

1. Click the Highlight button (in the upper right corner of the tool window).
2. Using the mouse, move the bubble cursor to the highlight point in the image and click.
3. Click the Shadow button (in the lower right corner of the tool window).
4. Using the mouse, move the bubble cursor to the shadow point in the image and click.

Usually, use the darkest point in the selection area as the shadow and the lightest point as the highlight.\* The effects of changing the Highlight and Shadow settings can be seen in the Preview Area if Live Preview is on.

Refer to your User's Guide for more information about the Highlight and Shadow tool.

### To return to the default settings

Set the Highlight and Shadow controls to 125.

### Contrast and Brightness adjustments

Whenever the Highlight and Shadow settings are adjusted, the Brightness and Contrast controls on the front panel are automatically adjusted to their corresponding values, and vice-versa.

\* For critical applications, where precise Highlight and Shadow adjustments are important, perform three or four Preview or Zoom Scans to warm up the lamp prior to using the Highlight and Shadow tool.

## **Information tool**

The Information option on the Tools menu displays information about your scanning process including scanning resolution, image type, whether you have an automatic document feeder ("ADF" on dialog box buttons) or a transparency adapter ("IT" on dialog box buttons), and the level of sharpening currently applied. The information displayed in the Information tool also depends on the Print Path or Image Type currently selected.

### **To display the Information tool**

From the Tools menu, select Information.

### **To change data that is shown in the Information tool**

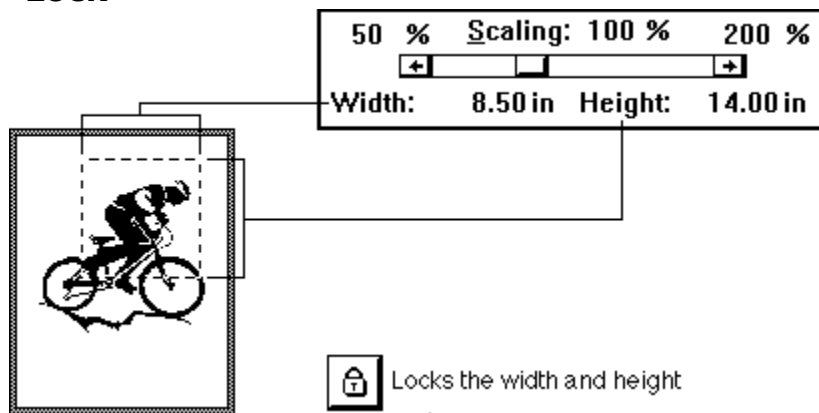
You cannot change anything directly in the Information tool. You must make changes to this information in other dialog boxes, or by changing the configuration of your scanner.

### **Related topics:**

[Preferences](#)

[Custom Print Path](#)

## Lock



A button in the [front panel](#) used to maintain a constant image size by locking the height and width dimensions. The lock button is useful when scanning images to a specific size.

### To size an image using lock

1. Create a selection area with the desired height and width dimensions.
2. Click the lock button.
3. Drag the sides of the selection area until the desired portion of the image fits within the selection area.

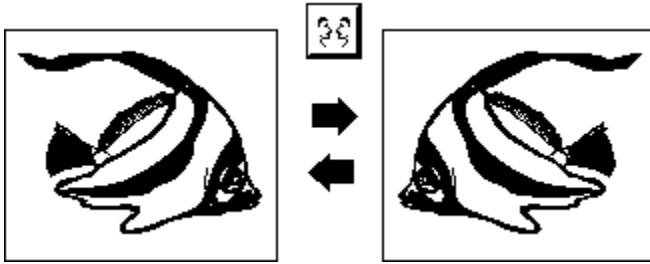
With Lock on, the portion of the image in the [selection area](#) and the [Scaling](#) control on the front panel work together to keep the image size constant. As the portion of the image in the selection area changes, the scaling percentage changes. The same image dimensions remain for the final scanned image.

Locking remains on until the Lock button is clicked again or DeskScan II is closed.

### Custom Image Size

If locking is on when a new image size is selected in the [Custom Image Size](#) dialog, the new size is accepted and is locked.

## Mirror



A button in the front panel that creates a mirror image of the original in the Preview Area.

The Preview Area shows the effects of changing the Mirror button if Live Preview is on.

## Negative

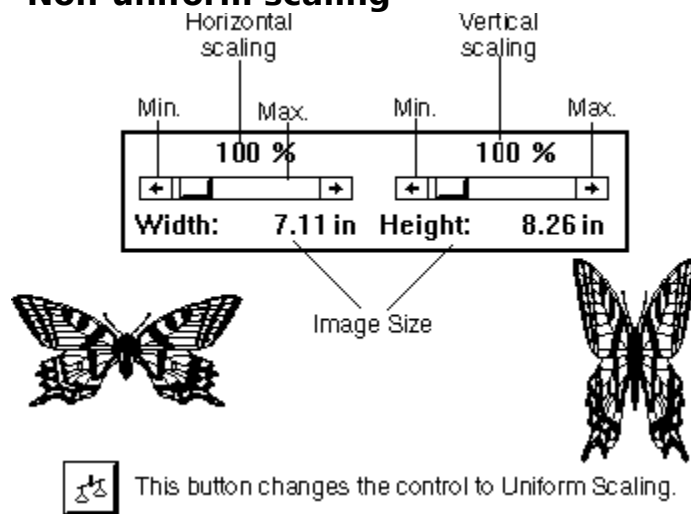


A button in the front panel that converts the white areas of an image to black and black areas to white. For color images, the complementary color is displayed.

In general, Negative is useful for drawings and spot color images.

The Preview Area shows the effects of Negative if Live Preview is on.

## Non-uniform scaling



A kind of scaling that allows for independent control of height and width while stretching or shrinking an image.

The opposite, Uniform Scaling, maintains a proportional relationship between height and width when an image is scaled.

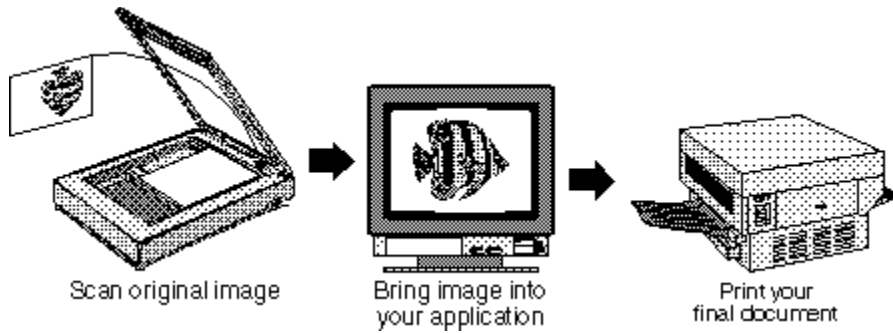
When Non-Uniform Scaling is active, separate controls are available for adjusting the image width and height.

### **Related topics:**

[Scaling an Image to a Specific Size](#)



## Path



A pop-up menu in the front panel that describes the target printer and any software applications used with the image.

The Path pop-up menu provides print path selections. The print path contains the following items of information:

- Resolution-Drawings & Halftones
- Resolution-Photos
- Calibration
- Path

When you select a print path, this information is automatically set for you. You can find the values for any of these items by opening the Custom Print Path dialog and selecting the item.

To create a custom print path, select Custom Print Path from the Custom menu.

Every printer and screen, and some software applications, affect the appearance of the images they display. The predefined print paths in the Path pop-up menu have been designed to compensate for these factors.

When viewing scanned images in other applications, the tone or color of the image may appear different than in the Preview Area. If you intend to modify the tone or color in the application, use the "Screen" print path selection.

## **Photo options**

Settings used when scanning images with many shades of gray or color. Original photographs, magazine and newspaper photographs, and shaded illustrations are examples.

Color variations in each dot of the image are measured and saved when a photo image type is used.

Typically, use photo image types to scan images that are to be printed or displayed on grayscale or color monitors, imagesetters, and typesetters. The files can be edited and modified with image editing software applications.

Photo options are selected in the Type pop-up menu in the front panel and in the Custom Image Type dialog.

### **Photo Options in Type Pop-up Menu**

- \* Black and White: 256 Grays
- \* Color: 256 Colors
- \* Color: Millions of Colors

Other photo settings, such as Black and White (16 Grays), Color (16 Colors), and Sharpening are available in the Image Type dialog in addition to any custom types that you create.

Sharpening options for photos can also be selected in the Custom Image Type dialog.

### **Related topic**

Color Content

## Preferences

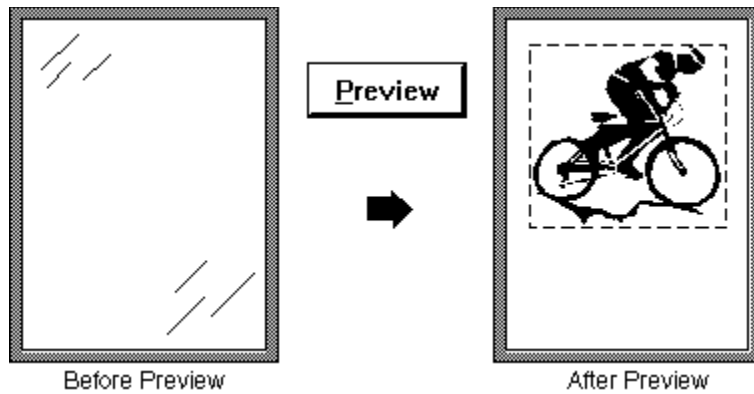
A dialog box that contains settings for customizing how DeskScan II scans and displays images. You can use it to set the following preferences:

Using less memory  
Image quality  
Automatic Find  
Automatic Exposure  
Automatic Type  
Default Types

### **To open the Preferences dialog**

From the Edit menu, select Preferences.

## Preview Area



The rectangular framed area to the right of the DeskScan II control panel.

The ability to display the effect that changing a setting has on an image in the Preview Area is called Live Preview.

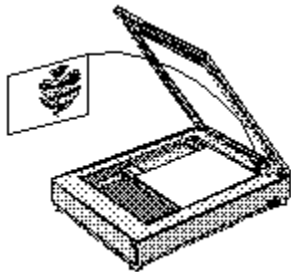
The size of the Preview Area can be changed to accommodate large Zoom Scans or to reduce the amount of memory used by DeskScan II.

### **Related topics:**

[Changing the Size of the Preview Area](#)

[Custom Preview Size](#)

## Preview scan



Preview Area after  
Preview scan

Place item to scan face down in the corner of the scanner with the document setmark

A button in the front panel that starts a low-resolution scan of the scanner copyboard. The scanned image resulting from the Preview scan appears in the Preview Area.

When Automatic Find is active, DeskScan II automatically creates a selection area around the image, selects an image type, and performs Automatic Exposure during a Preview scan.

Once a Preview scan is done and the image is adjusted using DeskScan II controls and tools, clicking Final Scan saves the selected portion of the image to a file.

### **Related topics:**

[Creating a selection area](#)

[Using less memory](#)

[Setting Automatic Find for Preview scans](#)

[Setting Automatic Exposure for Preview scans](#)

[Setting Automatic Type for Preview scans](#)

[Setting default type for Preview scans](#)

## **Resolution**

The number of dots per inch to be scanned with a Final Scan. Resolution is selected in the Custom Print Path.

To get the best quality image, the printer or screen resolution needs to be considered. DeskScan II provides scanning resolution settings to be used for some popular printers and displays. However, for others, resolution settings must be adjusted.

### **Setting the resolution**

1. Type the printer resolution in the boxes for Drawing or Halftone Resolution.
2. Divide by two the value of the resolution used in step 1 and type it in the boxes for Photo Resolution.

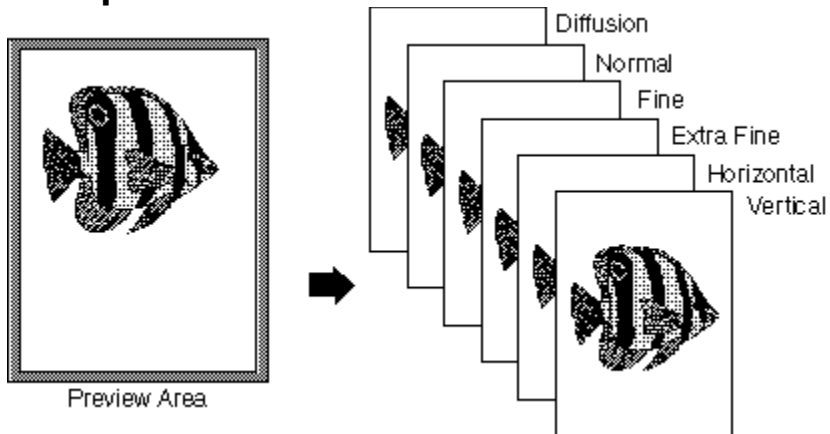
The steps above demonstrate a typical situation. For photos, a scanner resolution of 150 dpi provides good quality.

Once a high level of quality is achieved, increasing the resolution creates only a slight improvement in the quality of the scanned image. However, every time the resolution is doubled, the resulting file size of the scanned image quadruples.

### **Resolution and scaling**

The resolution settings also determine the scaling range. On an HP ScanJet IIp scanner with a Drawings and Halftones resolution setting of 300 dpi, the scaling range is from 4% to 400%. With a resolution setting of 75 dpi, the scaling range is from 16% to 1600%. With a resolution setting of 1200 dpi, the scaling range is from 1% to 100%.

## Samples



A command in the File menu that prints halftone samples of the image in the selection area.

One halftone sample per page is printed. The samples can be Black and White or Color, or Both. If you choose Both, 12 pages of samples are printed.

## **Scanner Tests**

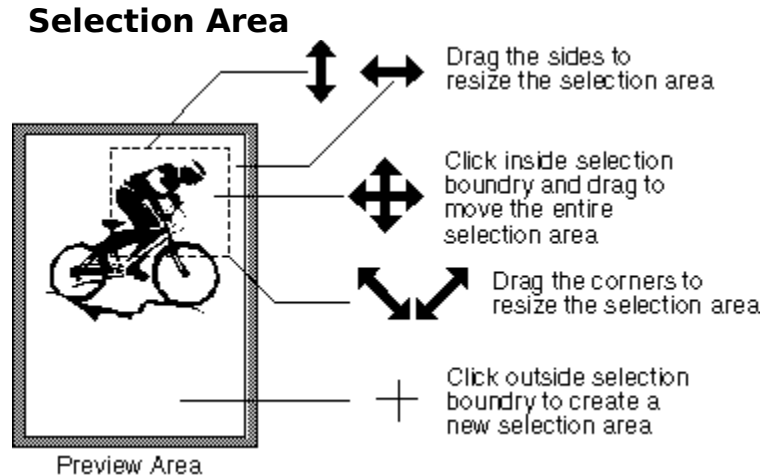
A program which evaluates the scanner, cables, and scanner driver. Once the tests begin, instructions and help are provided in the Scanner Test screens.



## **SCSI Addresses**

A program which displays a diagram of the peripherals in the SCSI system connected to your computer system.

If a Scanner is correctly connected to your computer, a picture of a scanner is displayed in the SCSI chain in the diagram. If you haven't connected a scanner yet, use the program to identify the available SCSI addresses.



The portion of the Preview Area that you want to scan. The selection area is shown by a dashed outline in the Preview Area.

When Automatic Find is active, DeskScan II software automatically creates a selection area around the image during a Preview Scan. When Automatic Find is not active, the user must create a selection area.

#### **To make a selection area**

1. Position the pointer in the Preview Area.
2. Drag the mouse in any direction.
3. Release the mouse button.

If a selection area is not made, the entire scanner copyboard is scanned and saved during a Final Scan.

Some features in DeskScan II are available only if a selection area is made. The Zoom Scan, Lock, and Automatic Exposure are examples.

#### **To adjust the size of the selection area**

1. Position the cursor on any side or corner of the selection area.
2. Press the mouse button and drag the side to a new position.
3. Release the mouse button.

If Lock is on, the sides and corners of the selection area cannot be adjusted.

#### **To move the selection area**

1. Position the cursor inside the selection area.
2. Press the mouse button and drag the selection area to a new position.
3. Release the mouse button.

#### **To remove a selection area**

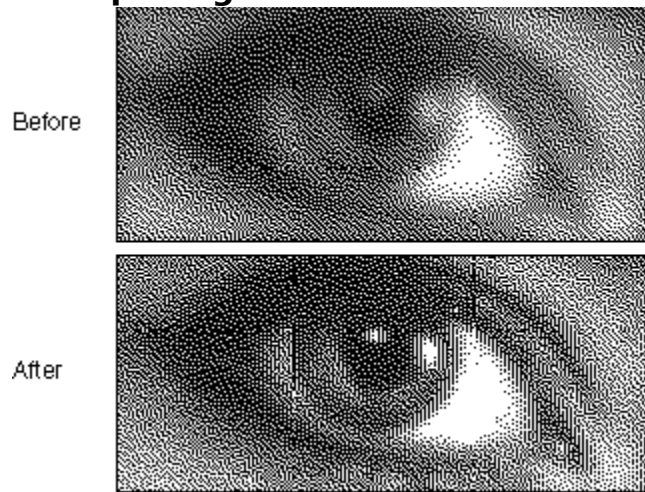
Click anywhere in the Preview Area outside of the selection box.

#### **Lasso**

Another way of selecting an area is called Lasso. It can be used to create an irregularly

shaped selection area inside the Preview Area.

## Sharpening



A style of scanning that enhances the details of most images. Sharpening options are available in the Custom Image Type dialog.

### **Use Sharpening to:**

- \* Enhance low resolution scans of drawings and photos.
- \* Embellish fine details in photos to make them more noticeable than in the original image.
- \* Highlight the subtleties in drawings.

### **Avoid Sharpening when:**

- \* Scanning printed or previously halftoned images.
- \* Scanning images that contain small blemishes.

Sharpening may accentuate undesirable patterns that sometimes arise when a printed or halftoned image is scanned. Sharpening may also accentuate any flaws or blemishes contained in the original image.

Sharpening is available to use with every image type option except Spot Color. The Preview Area displays the effects of changing the Sharpening setting, if Live Preview is on.

Refer to your User's Guide for more information and examples of sharpening.

## Size

An indicator in the front panel that estimates the file size needed to store the selected portion of the image.

The size of the selection area and the file format, scaling percentage, resolution, and image type selected affect the file size.

## **Transparency Adapter**

The optional Transparency Adapter lets you scan either opaque (paper) documents or transparencies from an HP ScanJet IIcx. Once the Transparency Adapter is installed and turned on the procedure for scanning an image is the same as for scanning photos or other paper documents. The Transparency Adapter will act like a standard scanner lid if its switch is turned off or if its lid is up. You can use the [Information tool](#) to see the current status of the Transparency Adapter.

## **TWAIN**

TWAIN is a standard for letting applications call scanning software and receive data automatically from that software. It saves the user from having to separately open the scanning software and use the clipboard to transfer the image. TWAIN is used from within the calling application (such as an image editor). It will automatically open DeskScan II and initiate a Preview scan. When you click Final it will automatically place the scanned image into the calling application.

For more detailed instructions see [Basic Steps to Scanning from Within an Application](#). You can get additional technical information about TWAIN (and other subjects) from [HP FIRST](#).

## Type



Scanned as  
Photo



Scanned as  
Halftone



Scanned as  
Drawing

A pop-up menu in the front panel that lets you select how the image is to be scanned and processed.

The Type pop-up menu provides image type selections. The image contains the following items of information:

- Color content (Black and White or Color)
- Color depth (16 grays and 256 grays for Black and White, and 16 colors, 256 colors, or Millions of Colors for Color images)
- Scan style (Drawing, Halftone, or Photo)
- Sub-styles (Spot Color or Detailed for Photos and Normal, Diffusion, Fine, Extra fine, Horizontal Line, and Vertical Line for Halftones)

When you select an image type, this information is automatically set for you. You can find the values for any of these items by opening the Custom Image Type dialog and selecting the item.

When Automatic Find is active, DeskScan II will automatically select an image type for the image after it does a Preview Scan. Automatic Find is activated by a check box in the Preferences dialog under the Edit menu.

There are two basic image types: drawings and photos. The other selections are provided for special purposes.

Black and white and color options for both drawings and photos are available. The Black and White and Color descriptions refer to whether an image should be scanned for a black and white printer (or screen) or for a color printer (or screen).

Color and Black and White do not refer to the content of the image being scanned.

### **Drawing**

Used for images with large areas of a single color. Line art, logos, and solid color images are examples of the kinds of images to be scanned with a Drawing image type.

Files created with a Drawing image type can be edited easily in an image editor.

### **Photo**

Used for images with many shades of gray or color. The color variation in an image is captured pixel-by-pixel when a photo image type is used.

A photo image type is used to scan images that are to be printed or displayed on imagesetters or color screens. Also, use a photo image type to scan an image that is to be edited.



Original photographs and pictures in books, magazines, and newspapers are examples of the kind of images to scan.

### **Halftone**

Used to optimize the quality of scanned photos when printed on desktop printers.

Images scanned as a halftone image type are processed in a way that simulates the many shades of color in the image when it is printed. The halftone process is needed for images printed on desktop printers because they can only print a small range of colors.

### **Millions of Colors**

Used to scan images that are to be displayed or printed on 24-bit color displays or imagesetters.

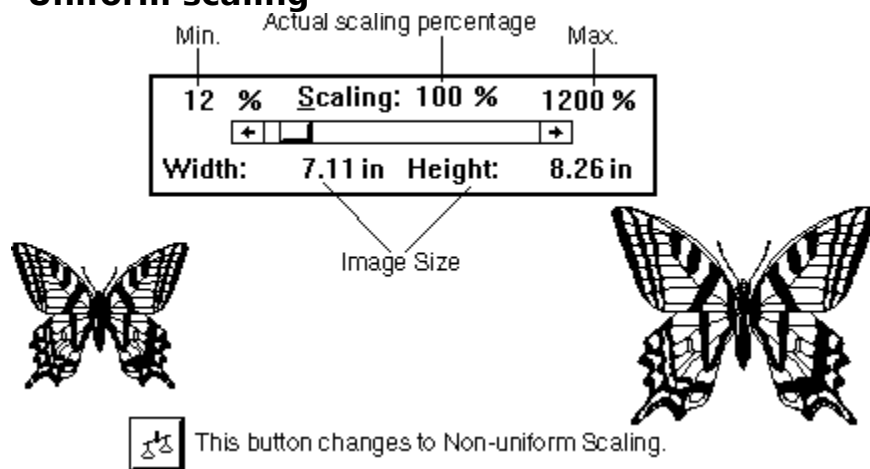
Files created with the Millions of Colors setting often contain more than a megabyte of data. For example, a half-page scanned image creates a 12 MB file.

### **Other image type considerations**

- \* Drawings and halftones take less memory than photos.
- \* Drawings and photos can be edited with most image editing applications.
- \* Halftones should not be edited with image editing applications.
- \* Halftone examples can be printed by selecting Samples.

Besides the standard image types (types with diamonds in front of them), custom image types can be created in the Custom Image Type dialog.

## Uniform scaling



A kind of scaling that maintains the proportional relationship of the height and width of an image. Uniform scaling is the default scaling setting.

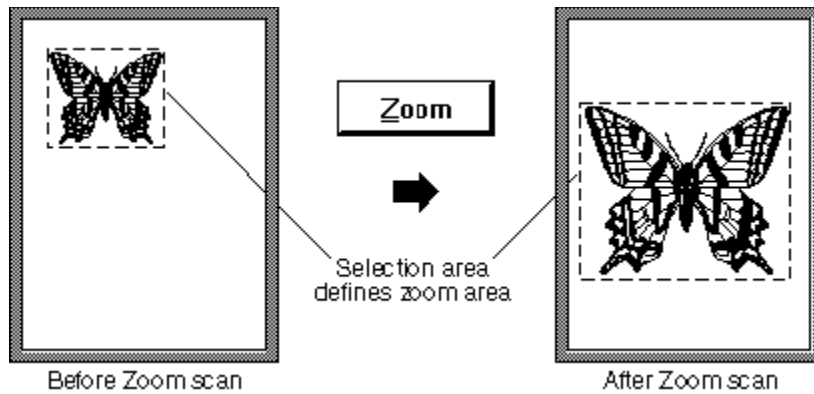
The opposite, Non-Uniform Scaling, allows for independent control of the height and width while stretching or shrinking the image.

When Uniform Scaling is active, only one scaling control is available for adjusting the image width and height.

### **Related topics:**

[Scaling an Image to a Specific Size](#)

## Zoom scan



A button in the front panel that rescans and enlarges the selected portion of an image to the maximum size allowed by the Preview Area.

Zoom Scans allow you to select a more precise area of the image for scanning.

If the selected portion includes most of the Preview Area, the Zoom Scan only slightly magnifies the view. To solve that, enlarge the size of the Preview Area or create a smaller selection area.

### To use Zoom

1. Click Preview.
2. Create a selection area.
3. Click Zoom.

### To return to the normal view

Click Preview to return to the normal view. The Zoom button is unavailable until a selection area is created.

## Glossary

AccuPage  
acquire  
ASPI  
automatic document feeder (ADF)  
automatic exposure  
automatic find  
CAM  
clipboard  
color hexagon  
color separation  
copyboard  
diffusion  
dots per inch (dpi)  
drawing  
Encapsulated Postscript (EPSF)  
file format  
front panel  
gamma correction  
gray levels  
halftone  
highlight  
HP FIRST  
hue  
image size  
image type  
lasso  
live preview  
lock  
midtone  
non-uniform scaling  
photo  
pica  
PCX  
pixel  
point  
posterization  
print path  
resolution  
saturation  
scaling  
select source  
selection area  
shadow  
sharpening  
spot color  
SCSI  
TIFF  
tone  
tone map  
TWAIN  
transparency adapter  
uniform scaling



## **About DeskScan II**

A dialog that provides copyright information and version number of DeskScan II.

## Scanning to a file

Place an image on the scanner copyboard.

### 1. Click Preview

Make adjustments (optional)

- Adjust the selection area to include only the part of the image you need.
- Change the exposure settings.
- Choose a new image type from the Type pop-up menu.
- Choose a print path from the Path pop-up menu.
- Sharpen the image.
- Scale the image to just the right size.

### 2. Click Final.

## Scanning from within an application

The following steps can be used only from within TWAIN compliant applications. The steps necessary in some TWAIN compliant applications may not match the sequence shown. Please consult your application documentation if you have any questions.

Place an image on the scanner copyboard.

1. If you have more than one possible scanning source:
  - From the application's File menu choose Select Source.
  - Choose DeskScan II as the source.
2. Using the features of your application, make any appropriate selections to prepare to bring the image into this application.
3. From the File menu select Acquire. DeskScan II will automatically perform a Preview scan when it is opened.

Make adjustments (optional)

- Adjust the selection area to include only the part of the image you need.
  - Change the exposure settings.
  - Choose a new image type from the Type pop-up menu.
  - Choose a print path from the Path pop-up menu.
  - Sharpen the image.
  - Scale the image to just the right size.
4. Click Final.

The image will automatically appear in your application.



## **Bringing an image into your image editor**

Images scanned with DeskScan II can be brought into many image editors and "paint" programs. The following instructions are a general outline of how to bring scanned images into image editors. You may need to adjust the steps slightly for your image editor. Some of these techniques may work better than others for various image types.

### **File method**

1. Scan an image and save it using the TIFF format.
2. Open your image editor.
3. From the File menu, choose Open.
3. Select the file scanned in step 1.

### **Clipboard method**

Although the clipboard method is easier than saving the image to a file, some images may be modified as they pass through the clipboard. If this happens, use the File method for bringing the image into your image editor.

1. Scan an image.
2. From the Edit menu, choose Copy.
3. Open your image editor.
4. From the File menu, choose New.
5. From the Edit menu, select Paste.

### **Direct method (TWAIN compliant applications only)**

Some image editors let you scan an image directly into the image editor. You will need to experiment to determine if your image editor can import directly without modifying the particular image you are scanning. If you cannot get the results you desire, use the File method for bringing the image into your image editor.

## **Color content**

Determines the gray levels or the number of colors used when scanning an image. Select Color Content options in the Custom Image Type dialog.

### **Black and white options**

- \* Automatically selected for drawings and halftones
- \* 16 Grays for photos
- \* 256 Grays for photos

### **Color options**

- \* Automatically selected for drawings and halftones
- \* 256 Colors for photos
- \* Millions of Colors for photos

## **Exit**

Exit closes DeskScan II.

## Selecting a file format

1. Click on a file format in the Save Image dialog.
2. Type the file name.

A file extension is automatically added to the file name for the file format selected. For example, if TIFF is selected, the extension ".TIF" is added to the file name.

Some applications that accept scanned images can do so only in a particular file format. Choose a file format that is accepted by the application you intend to use with the image file.

One of the most widely accepted file formats is TIFF. If the application accepts TIFF, select it from the pop-up menu.

### File format options

- \* EPSF(EPS)
- \* EPSF with screen image(EPS)
- \* OS/2 Bitmap (BMP)
- \* Publisher's Paintbrush (PCX)
- \* TIFF 5.0(TIF)
- \* TIFF 5.0 Compressed(TIF)
- \* Windows 3.0 Bitmap (BMP)

### TIFF 5.0

TIF is widely accepted by general purpose applications and is the recommended format for most scanned images.

### TIFF 5.0 Compressed

The amount of compression achieved in the TIFF Compressed format varies widely with the image type and the content in the image. Images with large areas containing the same color compress well.

The compressed TIFF format is not as widely accepted as the standard format. It can take longer to load an image if it has been compressed.

### EPSF

EPSF is used primarily for saving files that are to be used with Postscript illustration applications. Two different EPSF formats are available, one that can display the screen image and one that cannot.

EPSF files cannot be edited. However, using "EPSF with screen" you can view the image in some applications. One drawback to the "EPSF with screen" format is that it creates larger files than the ordinary EPSF files.

### File format problems

If an application accepts scanned files, but not in a file format available in the Save Image dialog, you might use an image file conversion program to convert from TIFF to the accepted file format.

## **DeskScan II Help**

Quick Help, Getting Started, Tasks, and Index Help are provided to make DeskScan II easy to learn and easy to use. The User's Guide and the Quick Reference Guide complement these Help items.

The user's guide explains and guides you through basic scanning concepts. The online help describes the features and functions in DeskScan II and it gives step-by-step instructions for doing scanning tasks.

### **Getting around in Help**

When the Help window is open, three buttons are provided to help you travel through the Help topics. The buttons allow you to browse forward, browse backward, and to go back to the previous topic.

Words that have a solid underline "jump" to another topic when they are clicked. Words with a dotted underline provide definitions.

To read a definition, position the pointer on a word with a dotted underline word. Press and hold the mouse button until you are done reading.

To print a Help topic, select Print under the File menu. Help topics print quickly, but those with graphics take longer than those with just text.

### **Quick Help**

A context-sensitive method for selecting Help on the menus or any part of the front panel. Quick Help can be opened by pressing the Shift and F1 keys at the same time.

When Quick Help is selected, the cursor changes into a question mark with an arrow. Use the top part of the arrow to select any control, pop-up menu, button, or menu item that you want help on.

To cancel Quick Help, select the Quick Help menu with the question mark cursor.

### **Getting Started**

A brief guide to the basic steps of scanning.

### **Index Help**

A list of Help topics. To get help on a topic, simply click on it. The F1 key starts Index Help.

### **Tasks**

A list of topics that provide step-by-step instructions for doing typical scanning tasks.

To see the list of Tasks once you are in the Help program, click the Home button and then click the desired topic in the list.

## Lasso



A selection tool used to create a non-rectangular selection area.

### To use the Lasso

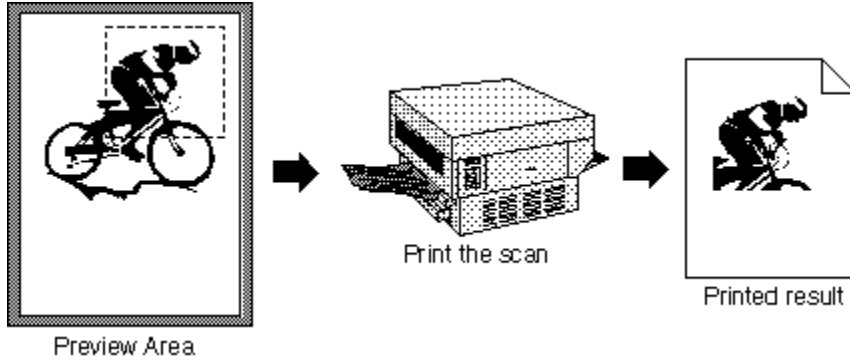
1. Position the mouse cursor in the Preview Area.
2. Press and hold the Control key and then press the mouse button.
3. Draw an enclosed area around the desired portion of the image in the Preview Area.

### To change back to a rectangular selection area

1. Click outside the existing selection area but still in the Preview Area.
2. Drag the mouse to create a new selection area.

Zoom, Automatic Exposure, and Lock are unavailable until a selection area is made.

## Printing



A command in the File menu that sends the portion of an image in the selection area to the selected printer. If a selection area has not been created, the entire scanner copyboard is scanned and printed.

### Steps to printing

1. Select a print path from the Path pop-up menu.
2. Click Print in the File menu.

Printer Setup, a Windows system command in the File menu, sets up or changes a printer, sets the page orientation, loads fonts, and provides other printer options.

### To set up a printer

1. Click Printer Setup from the File menu.
2. Select a printer from the Printer list box in the Printer Setup dialog.
3. Click Setup in the Printer Setup dialog.
4. Select the proper resolution.
5. Click OK in the Print dialog.
6. Click OK in the Setup dialog.

To install a new printer on your system, you need to use the Windows Control Panel. For more information about installing a printer, refer to your Windows documentation or use the Control Panel Help.

### Related topics:

- [Calibrating a Print Path](#)
- [Adding a New Print Path](#)

## **Rotating an image**

DeskScan II cannot rotate an image while it is scanning. If you need a rotated image (e.g. you are scanning a landscape-mode photo) you will need to bring the scanned image into your image editor and rotate it appropriately.



## **Save Image**

1. Select a file format.
2. Type the file name in the Name box.
3. Click Save.

When typing the file name, you do not need to type the file extension. DeskScan II automatically adds a file extension based on the file format you select.

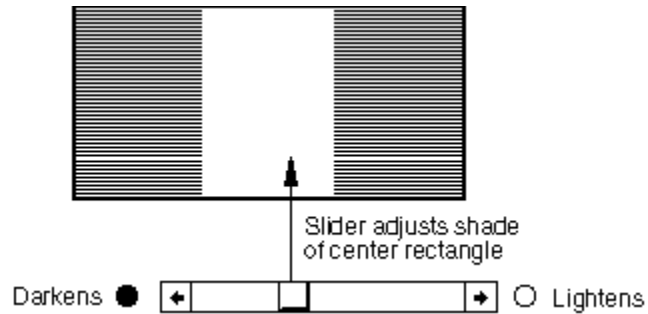
## **Scan calibration**

The target is created by a process which starts in the "Create a New Calibration" dialog.

### **To begin the process of creating a target**

1. Click Cancel from the "Scanning a Calibration Target" dialog.
2. Click New from the Custom Print Path dialog.
3. Click Save in the "Create a New Calibration" dialog.

## Screen calibration



Adjusts the computer screen to improve the way the Preview Area displays shades and colors. Screen calibration is available only for computer screens that can display 256 or more colors.

VGA monochrome and 16-color screens cannot be calibrated using this program.

Screen calibration is needed because of the differences in the way each screen displays color images.

The calibration process is similar to gamma correction.

Instructions for doing a screen calibration are provided in the Screen Calibration dialog. You may want to repeat the calibration if lighting conditions change.

## **Save Calibration dialog**

Type in the name for the calibration.

The name is added to the Calibration pop-up menu as a new selection.

## **Save Emphasis dialog**

Type in a name that describes the Emphasis settings.

The name is added to the Emphasis pop-up menu as a new selection.

## Scanning tasks

### Scanning an image

Basic scanning

[Scanning to a file](#)

[Scanning from within an application](#)

Advanced scanning

[Zooming in on a selected area](#)

[Scanning images to the Clipboard](#)

[Changing the size of the Preview Area](#)

[Printing a proof of an image before saving it](#)

[Printing halftone samples](#)

Examples

[Scanning a black and white drawing for a desktop-printed document](#)

[Scanning a color drawing for a desktop-printed document](#)

[Scanning a photograph for a desktop-printed document](#)

[Scanning a black and white drawing for a typeset document](#)

[Scanning a color drawing for a typeset document](#)

[Scanning a photograph for a typeset document](#)

[Scanning a color drawing for a color printer](#)

[Scanning a color photograph for a color printer](#)

[Scanning an image For Position Only \(FPO\)](#)

[Scanning an image for display on a computer screen](#)

### Adjusting an image

[Scaling an image to a specific size](#)

[Adjusting exposure](#)

[Sharpening an image](#)

[Bringing an image into your image editor](#)

[Rotating an image with your image editor](#)

[Adjusting color](#)

### Customizing DeskScan II

[Changing the units of measurement](#)

[Locking images to one size](#)

[Changing the size of the Preview Area](#)

Setting Preferences

[Using less memory](#)

[Image quality](#)

[Automatic Find](#)

[Automatic Exposure](#)

[Automatic Type](#)

[Default Type](#)

[Adding a print path](#)

[Adding a custom image type](#)

Calibrating a print path

Printing a calibration target

Scanning a calibration target

Creating a print path

Removing a print path

Calibrating the computer screen

## Getting started with your scanner

Place the drawing on the scanner copyboard.

Scan a drawing

1. Click Preview.

Make adjustments

- Select Black and White Drawing from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control.

2. Click Final.

Once you have tried scanning a drawing to see how the basic process works, you should calibrate your computer screen before you try to do any additional scanning. You should only need to calibrate your computer screen once unless you get a new monitor or the lighting conditions in your work area change drastically.

1. Select Screen Calibration from the Help menu.
2. Follow the instructions in the dialog for calibrating your screen type.

### Related topics:

Scanning from within an application

Advanced Scanning

Task Index

Using Help



## Scanning a black and white drawing for a desktop printer\*

Place the drawing on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Black and White Drawing from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control.

2. Click Final.

To save the image to the Clipboard instead of to a file, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.

\* black and white

## Scanning a color drawing for a desktop printer\*

Place the drawing on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Black and White Halftone from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.

\* black and white

## Scanning a photograph for a desktop printer\*

Place the photograph on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Black and White Halftone from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.

\* black and white

## Scanning a black and white drawing for a phototypesetter

1. Click Preview.

Make adjustments

- Select Black and White Drawing from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

If this is the first time you are scanning to a phototypesetter, you may need to calibrate and add a print path before selecting a print path in step 1.

For best results, use a calibrated print path.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.

## Scanning a color drawing for a phototypesetter

Place the drawing on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Black and White Photo from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

If this is the first time you are scanning to a phototypesetter, you may need to calibrate and add a print path before selecting a print path in step 1.

For best results, use a calibrated print path.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of the "HP ScanJet User's Guide" for more information about choosing an image type and scanning basics.

## Scanning a photograph for a phototypesetter

Place the photograph on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Black and White Photo from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

If this is the first time you are scanning to a phototypesetter, you may need to calibrate and add a print path before selecting a print path in step 1.

For best results, use a calibrated print path.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.

## Scanning a color drawing for a color printer

Place the drawing on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Color Drawing from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

If this is the first time you are scanning to a color printer, you may need to calibrate and add a print path before selecting a print path in step 1.

For best results, use a calibrated print path.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.

## Scanning a photograph for a color printer

Place the photograph on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Color Photo or Millions of Colors from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

If this is the first time you are scanning to a color printer, you may need to calibrate and add a print path before selecting a print path in step 1.

For best results, use a calibrated print path.

To save the image to the Clipboard, select Copy from the Edit menu instead of clicking Final.

Refer to Chapter 3 of your User's Guide for more information about choosing an image type and scanning basics.



## Scanning an image For Position Only (FPO)

Place the image on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select Black and White Drawing or Black and White Halftone from the Type pop-up menu.

- Select a print path from the Path pop-up menu.

- Create a selection area in the Preview Area.

- Click Zoom (optional).

- Click the Automatic Exposure button.

- Adjust the size of the image with the Scaling control (optional).

2. Click Final.

In step 1, consider selecting Screen as your calibration. It provides an adequate representation of the image without using much memory or file space.

## **Printing a proof of an image before saving it**

Place the image on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select an image type from the Type pop-up menu.
- Select a print path for your printer from the Path pop-up menu.
- Make a selection area in the Preview Area (optional).
- Click the Automatic Exposure button.

2. Select Print from the File menu.

You can print an image at any point in the scanning process. Select an image type that matches the printer being used for the proof.

Printing a proof copy on a desktop printer using the Millions of Colors image type takes much longer and is of lower quality than one using a halftone or a drawing image type.

## Scaling an image to a specific size

1. Scan an image.
2. Create a selection area around the portion of the image to scan.
3. Use the Scaling control to adjust width and height.

As the scaling percentage is changed in step 3, the resulting image width and height are shown beneath the scaling control.

Another way to select a specific image size is to use Image Size from the Custom menu. There, just type in the specific dimensions for image width and height.

### **Related topic:**

[Locking images to one size](#)

## Scanning an image for display on a computer screen

Place the image on the scanner copyboard.

1. Click Preview.

Make adjustments

- Select an image type from the Type pop-up menu.
- Select Screen from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with on the Scaling control (optional).

2. Click Final.

Before doing step 1 you need to calibrate your computer screen. To do that, select Screen Calibration in the Help menu.

## **Adjusting color**

1. Select Color Adjustment from the Tools menu.
2. Move the mouse pointer over a hue in the color hexagon in the Color Adjustment tool window.
3. Click the mouse button to select a hue.
4. Adjust the Saturation control in the tool window.

In the Preview Area, you can see the results of the changes you make to the image with the Color Adjustment tool. The tool must stay open for the changes to remain in effect. When the tool is closed, the hue and saturation are reset to the default settings.

## Adjusting exposure

### Adjusting Contrast and Brightness

1. Create a selection area in the Preview Area.
2. Click or drag the Brightness control to select a new brightness setting.
3. Click or drag the Contrast control to select a new contrast setting.

### Using Automatic Exposure

1. Click Preview.
2. Select an appropriate image type in the Type pop-up menu.
3. Create a selection area in the Preview Area.
4. Click the Automatic Exposure button.

### Adjusting Highlight and Shadow

1. Select Highlight and Shadow from the Tools menu.
2. Click on the Highlight button (in the upper right corner of the tool window).
3. Position the bubble cursor over the highlight point in the image and click the mouse.
4. Click the Shadow button (in the lower right corner of the tool window).
5. Position the bubble cursor over the shadow point in the image and click the mouse button.

### Using the Emphasis tool to modify the midtones

1. Select Emphasis.
2. Adjust any of the three midpoints on the curve by dragging it to a new position.
3. Click Apply.

For more information about adjusting exposure, refer to your User's Guide.

## **Locking images to one size**

1. Create a selection area with the desired height and width dimensions.
2. Click the lock button.
3. Drag the sides of the selection area until the desired portion of the image fits within the selection area.

Once the image size is locked to specific dimensions, the same image dimensions are used for all scans. The final dimensions of the image will not change but the image will be enlarged or reduced to fit the locked dimensions.

The image size remains locked until the lock button is clicked again or until DeskScan II is closed.

Scanning images to a single size is useful when scanning images for catalogs or any page formats that require graphics to be the same size.

## **Adding a custom image type**

1. Select Image Type from the Custom menu.
2. Click Black and White or Color from the Color Content box.
3. Click Drawing, Halftone, or Photo from the Style box.
4. Make selections from the available menus in the Color Content and Style pop-up menus.
5. Type a name for the custom Image Type in the Name box and click Add.
6. Click OK.

When you select OK, the Custom Image Type dialog is closed and the name of the new image type is added to the Type pop-up menu in the front panel. The new image type become the active image type.



## **Adding a print path**

1. Select Print Path from the Custom menu.
2. Type resolution settings for Drawings and Halftones in both the Vertical and Horizontal boxes.
3. Type a resolution setting for Photos in both the Vertical and Horizontal boxes.
4. Select an option from the Calibration pop-up menu.
5. Type a name for the new print path in the Name box and click Add.
6. Select OK.

Once the new print path has been named, it appears in the box in the upper right of the dialog. The new print path also appears in the Path pop-up menu in the DeskScan II front panel and becomes the selected path.

### **Related topic:**

[Calibrating a Print Path](#)

## **Calibrating the computer screen**

1. Select Screen Calibration from the Help menu.
2. Follow the instructions in the dialog for calibrating your screen type.

## **Changing the units of measurement**

1. Select Image Size from the Custom menu.
2. Select a new unit of measurement from the pop-up menu at the bottom of the Image Size dialog.
3. Click OK.

## Scanning images to the Clipboard

1. Click Preview.

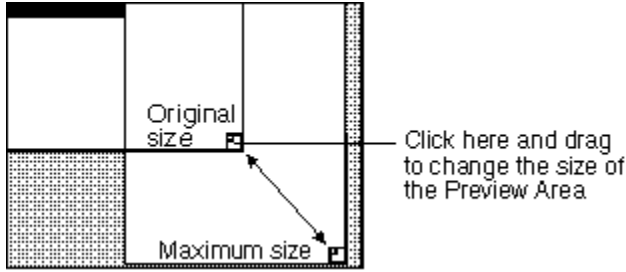
Make adjustments

- Select an image type from the Type pop-up menu.
- Select a print path from the Path pop-up menu.
- Create a selection area in the Preview Area.
- Click Zoom (optional).
- Click the Automatic Exposure button.
- Adjust the size of the image with the Scaling control (optional).

2. Select Copy from the Edit menu.

The Copy command copies the selected portion of the image to the Clipboard. If you have not created a selection area, the entire scanner copyboard is scanned and copied to the Clipboard.

## Changing the size of the Preview Area



1. Select Preview Size from the Custom menu.
2. Drag the right bottom corner of the rectangle in the Screen box to a new position.
3. When you have the Preview Area size you desire, release the mouse button.
4. Click OK.

Usually, you change the size of the Preview Area to see more detail in images that fill the Preview Area and which cannot be enlarged much by rescanning with Zoom. By enlarging the Preview Area, you can Zoom the image to a larger Preview Area to see more image detail.

Other times you may want to reduce the size of the Preview Area to minimize the amount of system memory being used by DeskScan II.

Whenever you change the size of the Preview Area, you must do a new Preview Scan.

### **Related topic:**

[How to use less memory](#)

## Sharpening an image

1. Select Image Type from the Custom menu.
2. Select a Sharpening option from the Sharpening pop-up menu in the Style box.
3. Type a name in the Name box and click Add (optional).
4. Click OK.

A new image type appears in the Type pop-up menu that includes Sharpening. Sharpening cannot be selected with the Spot Color drawing option.

The Heavy Sharpening selection works well for drawings. Photos, on the other hand, usually look best with the Normal Sharpening option.

## Using less memory

1. From the Edit menu, select Preferences.
2. Click the Color Preview check box to turn off Color Preview if it is on.
3. Click the Live Preview check box to turn off Live Preview if it is on.
4. Click OK to save the new settings and close the Preferences dialog.
5. Reduce the Preview Area size.

The Memory Space gauge in the bottom left of the Preview Size dialog shows the amount of system memory and disk space used by DeskScan II.

You should turn off Live Preview only when available system memory is critically low.

## Setting image quality

You can control how fast the scanning lamp warms up by setting the Image Quality option.

1. From the Edit menu, select Preferences.
2. Click Faster Lamp Warm-up if you want the scanning lamp to warm up faster so you can scan more quickly.
3. Click Better Illumination if you want better illumination on your image. The scanner takes longer to scan using this option.
4. Click OK.



## Setting ADF Scanning options

If you have an Automatic Document Feeder (ADF) you can select the paper size you will be scanning. If you are using an HP ScanJet IIc or HP ScanJet IIcx you can also select whether or not you want to allow Preview scans as well as Final scans.

Preview scans are not available on the HP ScanJet IIp or HP ScanJet Plus when using an ADF.

1. From the Edit menu, select Preferences.
2. Click the Allow Preview Scans check box to enable or disable Preview scanning.
3. Select the paper size you will be scanning.
4. Click OK.

## **Setting Automatic Find for Preview scans**

Automatic Find automatically creates a selection area around the image during a Preview scan. It also enables the Automatic Exposure and Automatic Type check boxes so that you can enable these features. This feature is on when you first start DeskScan II.

1. From the Edit menu, select Preferences.
2. Click the Automatic Find check box to enable or disable Automatic Find on Preview scans.
3. Use the sidebar under the check box to set the sensitivity of the function.
4. Click OK.

### **Sensitivity**

The sidebar under the check box lets you change the sensitivity threshold that DeskScan II uses during Automatic Find. Some images can have very fine lines or faint print and require more sensitivity for Automatic Find to work correctly. Other images may have a "dirty" background that you do not want DeskScan II to detect as part of the image and will require less sensitivity for Automatic Find to work correctly. Sliding the bar toward Smaller increases the sensitivity. Sliding the bar toward Larger decreases the sensitivity.

## **Setting Automatic Exposure for Preview scans**

If Automatic Find is on, you can also have DeskScan II perform Automatic Exposure during a Preview scan.

1. From the Edit menu, select Preferences.
3. Make sure that Image Find is on (the check box should contain an "X").
2. Click the Image Exposure check box to enable or disable Image Exposure on Preview scans.
4. Click OK.

## **Setting Automatic Type for Preview scans**

If Automatic Find is on, you can also have DeskScan II automatically select the image type during a Preview scan.

1. From the Edit menu, select Preferences.
2. Make sure that Image Find is on (the check box should contain an "X").
3. Click the Image Type check box to enable or disable Image Exposure on Preview scans.
4. Set the default image type if necessary.
5. Click OK.

## Setting the default type for Preview scans

If Automatic Type is on, you can tell DeskScan II which types of images it should "tend" to find during a Preview scan, and which image types it should use for scanning when it finds a certain type of image.

1. From the Edit menu, select Preferences.
2. Make sure that Automatic Find is on (the check box should contain an "X").
3. Click Default Types... to open the Automatic Type Defaults dialog.
4. Click Drawings or Photos, or No Preferences depending on which type of images you scan most often. This "biases" DeskScan II towards the selected type of drawing. It will select according to this bias if it cannot determine the image type conclusively.
5. For each image type that DeskScan II can detect, select the specific scanned image type using each of the pop-up menus in the dialog.
6. Click OK.

## Calibrating a print path

DeskScan II software comes with pre-calibrated Print Paths for some popular printers and application packages such as PageMaker. These are listed on the front panel in the Path pop-up menu. You may want to calibrate your printer and a particular application package and add it to this list.

Calibrating a printer or a printer and application involves three steps:

1. Print the calibration target.
2. Scan the calibration target.
3. Create a print path name for the new calibration standard.

DeskScan II software sends a target image file to your application package where it is printed. The printed target is then scanned to create a new calibration setting. The last step is to create the print path for your printer and application by selecting the new calibration, giving it a name and adding it to the list of print paths.

## Printing a calibration target

You can make a print path which takes into account only your printer by printing a calibration target directly to your printer. You can also create a print path that accounts for your printer and a specific application by saving the calibration target to a file, bringing it into your application, and printing it from your application.

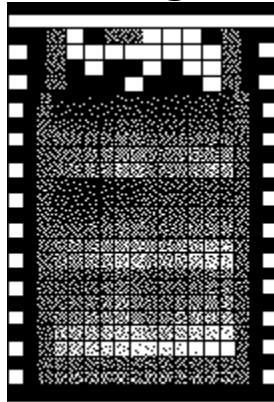
### Sending a calibration target directly to your printer

1. From the Custom Menu, select Print Path .
2. In the Printer box, click New.
3. In the Calibrate a Print Path dialog box, click Create. You will see the Create a Calibration Target dialog box.
4. In the Printer box, select black and white or color.
5. In the Native Printer Resolution box, type in the resolution of your printer.
6. In the Send To box, click Printer.
7. Click OK.

### Sending a calibration target to your printer through an application

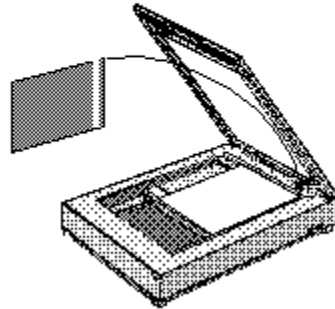
1. From the Custom Menu, select Print Path .
2. In the Printer box, click New.
3. In the Calibrate a Print Path dialog box, click Create. You will see the Create a Calibration Target dialog box.
4. In the Printer box, select black and white or color.
5. In the Native Printer Resolution box, type in the resolution of your printer.
6. In the Send To box, click File.
7. Click OK.
8. Select the proper file format for your application.
9. Name the file.
10. Click Save. If you are calibrating a color printer, you will be asked to save the color file. Give the color file a different name.
11. Click Quit.
12. Click Cancel.
13. Close DeskScan II, (optional).
14. Open your application you are planning to calibrate, such as PageMaker.
15. Create a new file in your application with a page size large enough to receive the target file (approximately 4" by 6").
16. Place the target file in portrait orientation on a page in the application without making any changes to the size of the target.
17. Print the page with the target from the application. If you are calibrating a color printer, repeat these steps to print the color target.

## Scanning a calibration target



Calibration target

Place face down.  
Align horizontal  
stripes towards  
document setmark



1. Reopen DeskScan II.
2. From the Custom Menu, select Print Path.
3. In the Printer Calibration box, click New.
4. From the Calibrate a Print Path dialog box, click Scan.
5. Place the target face down on the scanner copyboard glass with the top of the target next to the document set mark.
6. Close the copyboard cover.
7. Click OK.

The scanner now scans the printed target. If you are calibrating a color printer, you are prompted to scan the second target. When the target(s) is(are) scanned successfully, you will see the Save Calibration dialog box.

8. In the Save Calibration dialog, type a name that uniquely describes the new Calibration option.
9. Click Save.
10. Click Quit.

Your printer and application are now calibrated and its name appears in the Calibration pop-up.



## **Removing a print path**

1. Open the Custom menu and select Print Path.
2. Select a print path from the box in the upper right corner of the dialog.
3. Click Remove.

Print paths with diamonds in front of them are standard print paths and cannot be removed.

## **Create a Calibration Target dialog**

1. Click Black and White or Color in the Create a Calibration Target dialog.
2. Type in the resolution of your printer in dots per inch in the Native Printer Resolution box.
3. Click File or Printer.
4. Click OK.

In step 1, Color is unavailable if you are using an HP ScanJet Plus Scanner.

If you need to find the resolution of your printer for step 2, check the printer documentation for the printer specifications.

In step 3, select Printer if the path is directly to the printer rather than to an application.

## **Calibration Information dialog**

The printer resolution and the calibration status are shown in this dialog.

The minimum and maximum screen dot range refers to a measure of the smallest and largest dot that can be printed reliably on an offset press. Those settings are intended for experienced users who are scanning images for offset printed documents.

For a typeset document, leave the minimum and maximum screen dot settings at the default settings.

## **Zooming in on a selected area**

1. Click Preview.
2. Create a selection area.
3. Click Zoom.

Zoom Scan is only available when a selection area is made.

## Printing halftone samples

1. Click Preview.
2. Create a selection area.
3. Click Samples.

Technology used to optimize data from a scanner for page processing applications such as Optical Character Recognition (OCR), Document Management, and PC assisted fax. Text regions of the page are optimized for OCR and image regions are optimized for high quality image capture.

A menu item present in the menu bar of most applications that support TWAIN. Selecting Acquire takes the user directly to the scanning software selected using Select Source. If the software is DeskScan II it also automatically executes a Preview scan of the image.

(Automatic Document Feeder) An accessory that permits the automatic feeding and scanning of document pages. An ADF is usually used for scanning documents with optical character recognition (OCR) software.



(Advanced SCSI Interface Protocol) A de facto industry standard, originated by Adaptec Corporation, for communication between SCSI controllers and SCSI devices.

A button that automatically sets the exposure for the selected portion of an image in the Preview Area.

A feature of DeskScan II that automatically creates a selection area around the image and performs Automatic Exposure on the selected area.

(Common Access Method) An ANSI (American National Standards Institute) standard for communication between SCSI controllers and SCSI devices.

A temporary electronic storage area that allows for cutting and pasting of text and graphics.

A tool used to adjust the image hue.

A process for printing a color image in which four halftones are produced, one each for cyan, magenta, yellow, and black. The halftones can be produced with a camera and a film screen or with a computer and specialized software.

The flat glass surface on a scanner where documents are placed to be scanned.



A process similar to halftoning that simulates the color tones in a scanned photo when it is printed on a desktop printer.

The number of dots across one inch of the medium used to display images or text. Dots per inch measures the resolution of printers and displays.

An image containing large areas with a single color. For example, a black and white drawing contains only black and white areas that have no shades of gray.

(Encapsulated PostScript Format) A standard image file format used in the publishing industry to save an image to a file. Sometimes also referred to as EPS.

A particular way of saving information in a file. Many software applications can save and accept files in only a few file formats. A commonly used file format for scanned images is TIFF.

A tool that permits selection of irregularly shaped areas of an image for scanning.

The main window of DeskScan II that contains the primary controls, pop-up menus, and buttons.

Gamma correction adjusts the brightness of gray levels in the image so that the lightest and darkest portions of the image can be properly displayed on your monitor. For example, all 25% grays might be changed to 35% grays while 75% grays are adjusted to 65% grays.



The number of levels of gray used to digitally represent each pixel of the original image when scanning. Typical gray levels are bilevel (1-bit), 16 levels (4-bit), and 256 levels (8-bit).

An image type that simulates the tones in photographs by varying the size of the dots in the image when printed. Dark areas consist of large black dots while light areas consist of smaller black dots.

The whitest portion of the image. In the highlight area, a printer will print either the smallest possible dot or no dots.

(HP Fax Information Retrieval SysTem) An automated system for retrieval of information via audio tips or return fax. Please consult your installation manual to find out how to use HP FIRST.

The attribute of color that describes its dominant wave length and other distinguishing characteristics. Red, green, and blue are hues.

The height and width of an image when saved. Image size is also a menu command in DeskScan II. The scaling controls in the front panel can be used to change image size.

The kind of image to be scanned. An image is either a drawing or a photograph. However, a halftone image type is also available for scanning photos to be printed on desktop printers.

A feature that automatically updates the image in the Preview Area whenever settings are changed. It can be turned on and off in the Preferences dialog which is accessed through the Edit menu.



A feature that keeps the image width and height locked to specific dimensions.

The tones in the middle of the range between the highlight and shadow points.

A kind of scaling that allows the height and width of an image to be changed independently.

A commonly used file format, originally developed by Z-Soft corporation, for saving images in PCs.

An image containing many shades of gray or color.

A unit of measurement used in traditional printing. A pica is 1/6 inch or 12 points.

The primary file format available on the Macintosh that supports text, vector drawings, and scanned images.

An abbreviated version of the phrase "picture element." Pixels are the small dots that make up a screen image. Pixels are used to measure screen resolution.



A unit of measurement in traditional printing. Twelve points equal a pica; 72 points equal one inch.

An effect produced by scanning a color photo with the Detailed Drawing option. The scanned image has fewer colors than the original image, creating an effect similar to that of an impressionistic painting.

The route or "path" a scanned file passes to be printed or displayed. A typical print path might include an image editing application, a desktop publishing application, and a laser printer.

A measure of the dots per inch in an image. As the resolution increases, so does the quality of the image and the file size.

The vividness or purity of a color, as measured by its freedom from mixture with white.

The process of stretching and shrinking an image. Also called "sizing."

(Small Computer System Interface) An industry-standard method of connecting peripheral devices to personal computers. Up to seven SCSI devices can be connected to a single SCSI controller in your computer. Some computers can be set up with multiple controllers.

A menu item present in the menu bar of most applications that support TWAIN. This menu item lets the user choose which scanning device will be the source for the application.



An area created in the Preview Area that defines the area to be scanned. A selection area is created by dragging the mouse pointer anywhere in the Preview Area.

The darkest area of an image is designated as the "shadow." The range between highlight and shadow determines the contrast of the image.

A style of scanning that emphasizes the small lines and subtleties in an image.

Images that have large areas of a single color. Examples of spot color images include logos and cartoons. Spot Color is also the name of a scanning style in the Custom Image Type dialog.

(Tag Image File Format) A commonly used graphics format for storing and transporting files.

The overall effect produced by the combination of lighting, shade and color.

A graph where one axis represents gray level in the original image, the second axis represents adjusted gray levels, and a diagonal line shows how original levels are mapped to new levels. Moving points on this line changes how the original gray levels are mapped to the output file.

A replacement for the standard scanner cover that lets you scan transparencies rather than paper documents.



An industry term for a process that allows word processing, desktop publishing, and image editing applications to directly access scanning devices.

A method of stretching or shrinking an image equally in both the vertical and horizontal directions.