

Operation

Advance page

While including the basic functions on the Main page, the Advance page also encompasses Image Enhancement Tools that can be used to compensate for any color distortion of the scanned images. Also, the Batch Scan lets you scan more than one selected scan area with a single operation. The Advance page is illustrated as follows.

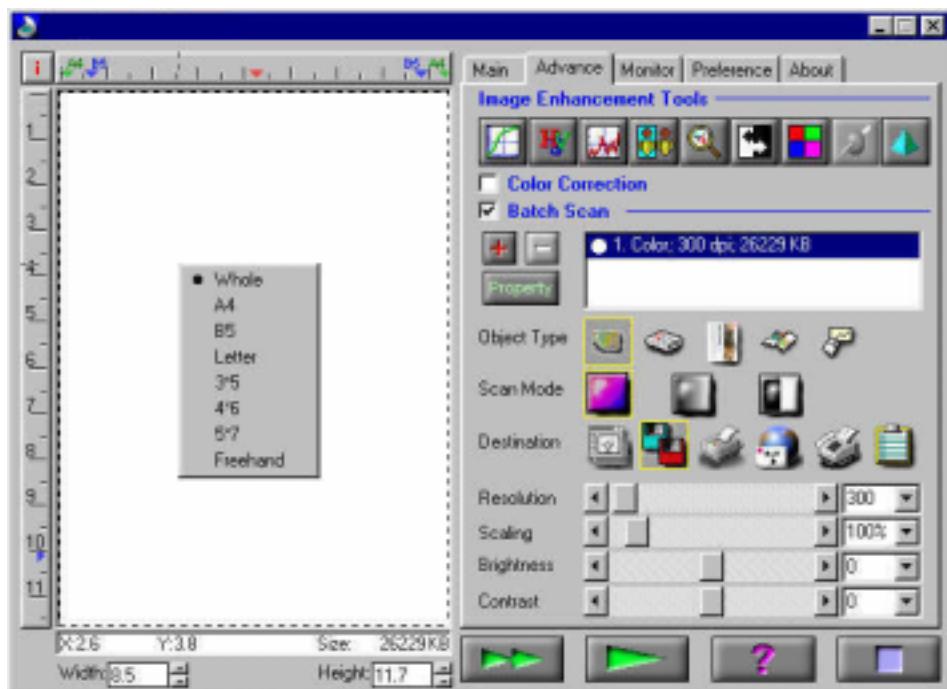


Image Enhancement Tools

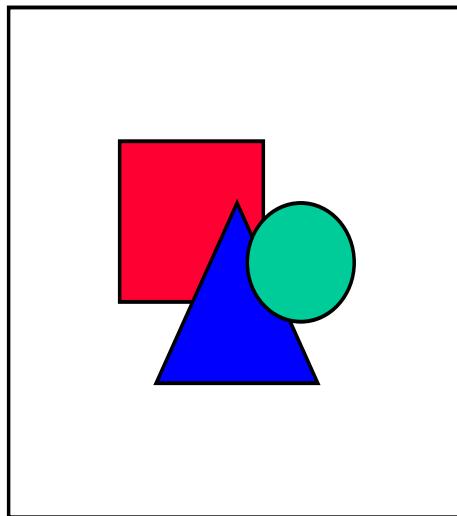
The following functions are the tools that help you edit your image for your personal taste.



Gamma correction

Sometimes you may want to adjust the brightness of midtones of the scanned image while keeping shadow and highlight areas relatively unchanged. The Gamma correction function allows

you to increase or decrease the intensity of the midtones. Click the following window is displayed:



The available gamma value ranges from 0.01 to 7.99. Changing the gamma value above 1.0 will brighten the midtones, and below 1.0 will darken the midtones. You can either enter the desired gamma value in the number box or use the scroll bar to select your desired value.

In the CHANNEL checking box:

ALL To correct all color components (red, green, and blue) of the image with the same gamma value.

Red

To correct the red component of the image.

Green

To correct the green component of the image.

Blue

To correct the blue component of the image.

If channel „All“ is chosen, the gamma value is applied to the red/green/blue channel. Otherwise, the gamma value for **red/green/blue** is applied to the **red/green/blue** component respectively.

A  will be marked on the lower right corner of the icon  as a reminder if you change the default setting.

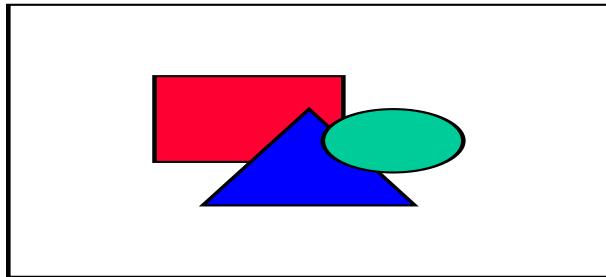


HSV



Click , and the Hue & Saturation dialog box will display and allow you to adjust the hue and saturation of the image while keeping the brightness level unchanged.

Hue is the wavelength of light reflected directly from an image and it is represented by the name of colors. Adjusting the hue changes the whole color appearance of the image. Saturation is the strength of the color, referring to how far away the color is from a gray tone of equal intensity. Adjusting the saturation changes the degree of color purity in proportion to the hue.



To adjust Hue and Saturation:

Hue adjustment

In the „Hue“ box, specify an angle value (you can either directly enter the desired value in the number box or use the scroll bar to select your desired value). The specified angle value represents a move around the color wheel. (Remember that hues are specified as angles on the color wheel. If you are not familiar with the color wheel notation, please refer to any related book about color.)

Saturation adjustment

In the „Saturation“ box, specify a desired percentage value of the saturation. A value of „100“ converts the image completely to a grayscale image and a value of „+100“ shows the image with fully saturated hues.

A  will be marked on the lower right corner of the icon  as a reminder if you change the default setting.

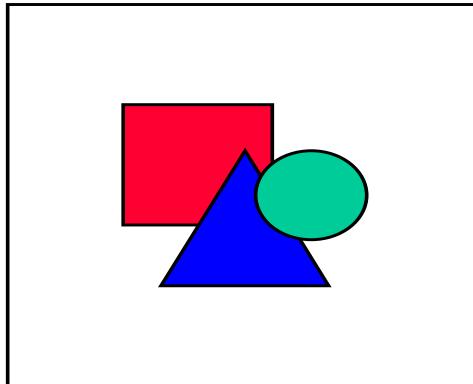


Tone Adjustment

For correcting image distortions that take place during scanning, use the Tone adjustment on scanned images. Tone adjustment allows you to control the shadows, midtones, and highlights of your image. Use it to restore detail that is lost in shadows or highlights, to correct overexposure or underexposure, and to improve the tonal quality of your image.



Click , then a dialog box entitled "Tone Adjustment" appears.



You can adjust the tone value by using the mouse cursor to reshape the tone. Curve-based editing enables you to find out a problem area and makes small or large changes to that image area.

The Tone curve takes an original pixel brightness value X as input and Y as a new output brightness value. The resulting curve is a visual representation of the balance between shadows, midtones, and highlights.

A will be marked on the lower right corner of the icon as a reminder if you change the default setting.



Mirror

The mirror function lets you change the horizontal orientation of a prescan image to one that mirrors the current image view across an imaginary vertical line.

To mirror an image:



Click . When this function is enabled, the icon will become



Zoom

The Zoom function lets you enlarge the view of an image in the Preview window. However, the zoom function can only enlarge the image view with one predefined factor.

To zoom in:



Click . It will magnify the view in the Preview window. When this function is enabled, the icon will become



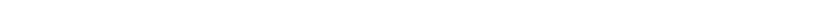
To disable zoom in:



After magnifying the view, click the . again to reduce the view to its original size.

NOTE

When zooming in, a vertical scroll bar and/or a horizontal bar will appear to let you scroll through the entire image.



Invert

The Invert function lets you obtain a positive view of a scanned image negative or a negative image of a positive original. By applying this function, the brightness value of each pixel will change to the inverse value on 256-color scale.

To invert an image:



Click . after applying the Prescan function. When this function is enabled, the icon will

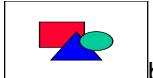
become 

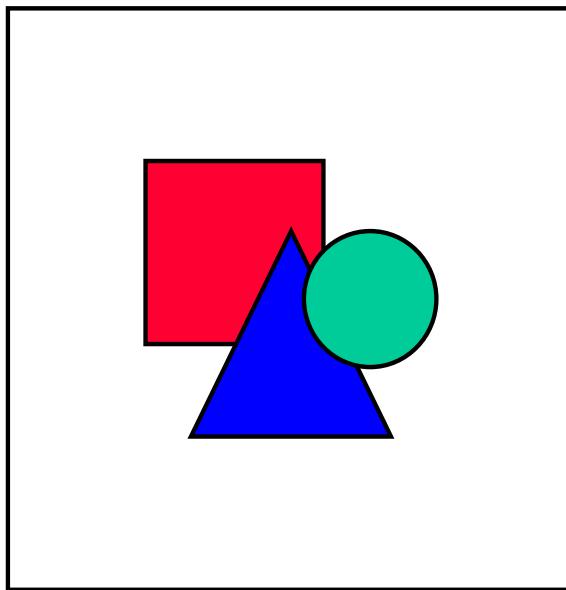


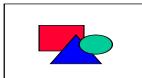
Levels

The Levels function automatically adjusts the colors of the scanned document spread over a 256-color scale.

To perform the Levels:

1. Run the 'PRESCAN' function by clicking the  button.
2. Click the Levels icon .
3. Select this icon and a dialog box will appear.

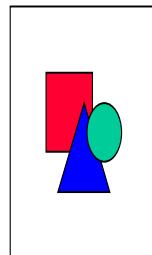


4. Press  to acquire the adjusted image.



Filter

Filters are provided to produce dropout effects, i.e., to drop the part of the image that is in a color difference from the specified filter. Three options are available: Red, Green, and Blue filter.



Note: Filter only functions in Gray and B/W mode.



Effect

Effect offers you the ability to create special and spectacular effects to your scanned image and let you get some amazing results. There are five functions in this menu: None, Blur, Blur More, Sharpen, and Sharpen More. All these functions are exclusive to each other. The default effect selection is None.

None

There will not any effect available in this menu.

Blur

Blur is used to slightly soften all or part of an image.

Blur More

Blur More incrementally softens the image.

Sharpen

Sharpen gives emphasis to the color differences between adjacent pixels of different colors. It is used to electronically strengthen the focus of blurry images by means of increasing the contrast of adjacent pixels.

Sharpen More

Sharpen More incrementally sharpens the image.

A  will be marked on the lower right corner of the icon  as a reminder if you change the default setting.



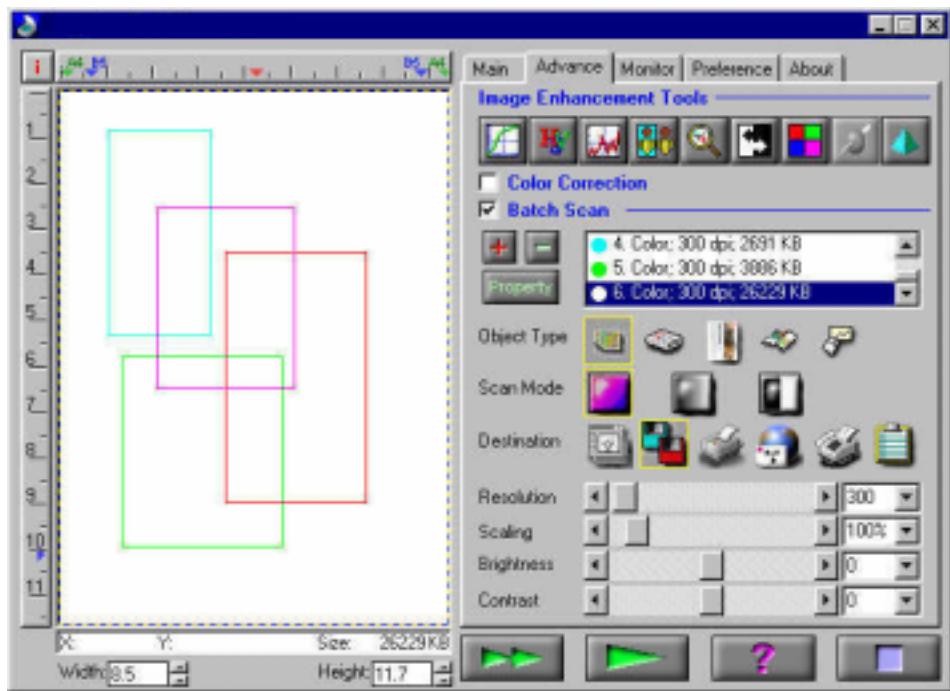
Color Correction

If this function is checked before scanning, you can acquire fidelity images.



Batch Scan

Batch scan is a very useful function that allows you to define multiple areas with different image settings in the Preview Window and then to scan the defined areas in a single operation. Please remember to prescan the document before applying the Batch Scan function.



Setting procedure:

	To add a scan area selection: Press this button to add images to the designated destination. In pressing , a new scan rectangle will be generated. The entire scan window will be the default scan area. To change it, simply drag. Please drag a new rectangle to define the scan area in the Preview Window and define the image setting.
	To delete the active (selected) scan rectangle.
	To show the property of the active area.
	Batch Scan List: All the defined scan areas will be listed in the Batch Scan box. Please be aware that the number of images to be scanned corresponds to the number of images in the Batch Scan box. When a defined area is selected/activated, it will be marked with marching black ants as a boundary in the Preview Window.

You can define as many as 20 scan rectangles in a Preview Window. Simply drag the box in the scroll bar or click on the arrow icon on the right of the Batch Scan box to view more defined rectangle areas.

After defining several scan areas, if you would like to scan only one, simply release the check of the Batch Scan box. The information of all other scan areas in the Batch Scan List becomes gray except for the active area. Click on the area you would like to scan then press the scan button. It will then acquire the selected image area.

NOTE:

1. You can always change the image setting of the activated scan area at your own discretion.
2. The activated area is the one surrounded by marching black ants.

