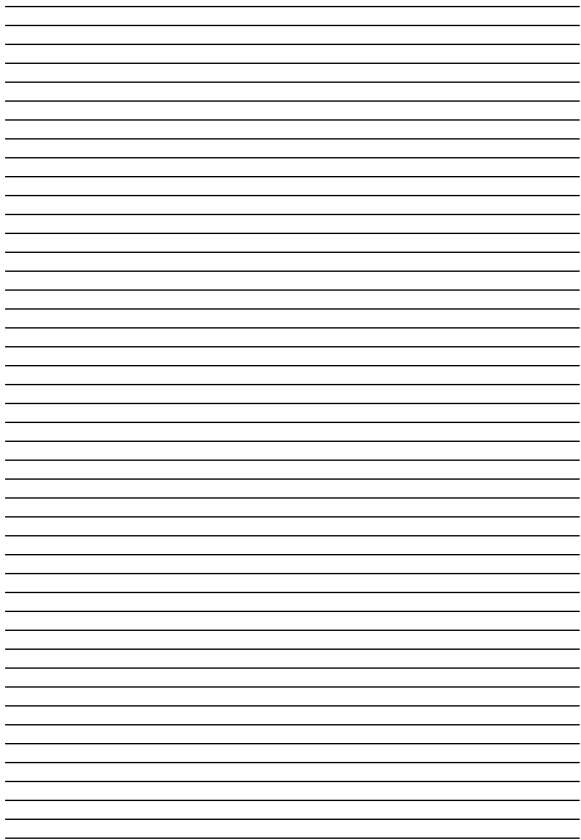


FT-S5000

Plug-in Ver.2.0

for Macintosh

USERS MANUAL



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Introductory Note

Thank you very much for choosing our product. The FT-S5000 Plug-in is a plug-in module to import images scanned with the FT-S5000 directly into Adobe Photoshop.

This Users Manual describes the functions and procedures for operating the FT-S5000 Plug-in. To fully utilize all its functions and capabilities, thoroughly read and understand this manual before you use the FT-S5000 Plug-in.

Functions of the FT-S5000 Plug-in

Support of various original types

FT-S5000 (scanner) can input both the transparent type (positive and negative films) and reflection type (photographs and printed materials) of originals. In addition, it can input linework originals such as film (transparency) and mechanicals (reflection) as binary images.

Continuous scanning

FT-S5000 Plug-in can trim multiple originals at one pre-scanning and scan them continuously. When continuous scanning is executed, the FT-S5000 scans originals in the most efficient order regardless of the trimming setup order.

Saving the setup data

FT-S5000 Plug-in can save the set parameters for the trimming area, resolution, and image output mode in a setup file.

FT-S5000 setup

Before starting operation with FT-S5000 Plug-in, perform FT-S5000 (scanner) setup.

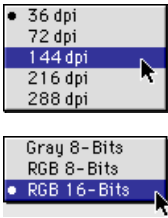
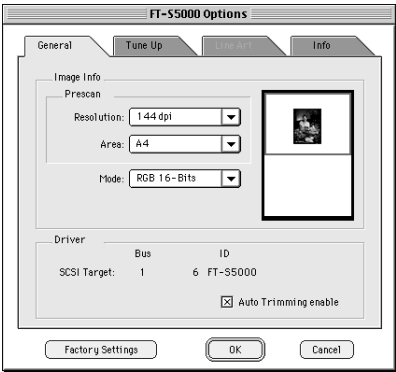
Setup regarding FT-S5000

If you click the "More" button on the scan menu window, the FT-S5000 scanning operation setup ("FT-S5000 Options") dialog box opens. This dialog box allows you to set the scanning resolution and image quality, as well as to make necessary settings for linework input.

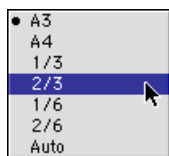
Setup regarding pre-scanning

Set the resolution, input image mode, and scanning area for pre-scanning.

- 1) Click the "General" tab in the "FT-S5000 Options" dialog box.



- 2) Select the resolution to be used for prescanning with the Resolution menu.
You can select the resolution from 36, 72, 144, 216, and 288dpi.
- 3) Select the image pre-scanning mode from the Mode menu.
If you select "RGB (16 bits)", the image is entered as a 16 bit RGB image. If you select "RGB (8 bits)", it is entered as an 8 bit RGB image, and if you select "Gray (8 bits)", it is entered as an 8 bit Grayscale image.

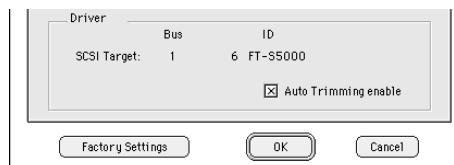


- 4) Select the scanning area to be used for prescanning with the Prescan Area menu.

If you select A3, prescanning is performed over the entire area of the scanning glass. Besides A3, you can choose A4, 1/3, 2/3, 1/6, 2/6 or Auto, and prescanning is performed respectively on the area as shown below. If you select Auto, after the positioning and sizes of the originals are recognized, prescanning is performed on the minimum rectangular area that encompasses all the originals.



- 5) Click the “OK” button and close the “FT-S5000 Options” window.

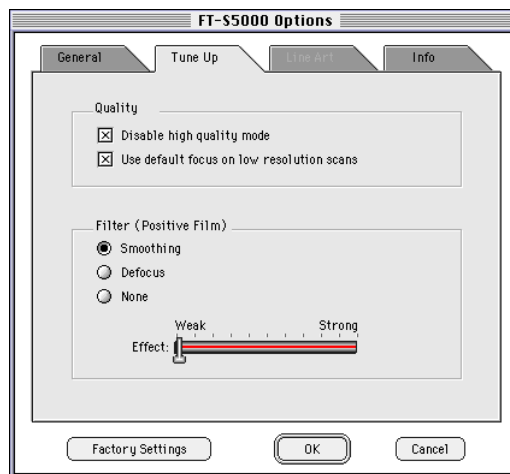


- 6) If the “Auto Trimming enable” check box on the right bottom side of the window is not checked, the automatic trimming setting is invalid.

Setup regarding the scanning image quality and filter

You can select whether priority is given to image quality or processing time by specifying the scanning operation speed and whether or not to perform focus adjustment. In addition, you can set the type and strength of the filter that is used during scanning.

- 1) Click the "Tune Up" tab in the "FT-S5000 Options" dialog box.



- 2) Decide whether or not to activate "Disable high quality mode".
If you check this box, the scanning speed is increased. If you do not check this box, you can obtain higher quality images than when you marked this box, although the scanning speed is decreased.
- 3) Decide whether or not to activate "Use default focus on low resolution scans".
If you mark this check box, focus adjustment is not performed before scanning if the input resolution is set to 800 dpi or less. If you do not mark this box, focus adjustment is always performed before scanning regardless of the set resolution.
- 4) Set the type and effect strength of the filter that is used during scanning.
Select the filter type from among "Smoothing", "Defocus", and "None" (a filter is not used).
If you select "Smoothing" or "Defocus", you should also adjust the filter effect strength using the slider.

Filter	Contents
Smoothing filter	If you scan the original in full-resolution, particles and small noise components on the film may be input with the image. The smoothing filter will eliminate these noise components during scanning.
Defocus filter	When scanning a screened original like printed material in high resolution, the image preserving the clarity of the dots may be reproduced. Using the defocus filter to the image will reduce the clarity of individual dots and produce a smoothed image by defocusing the pixels in the overall image.

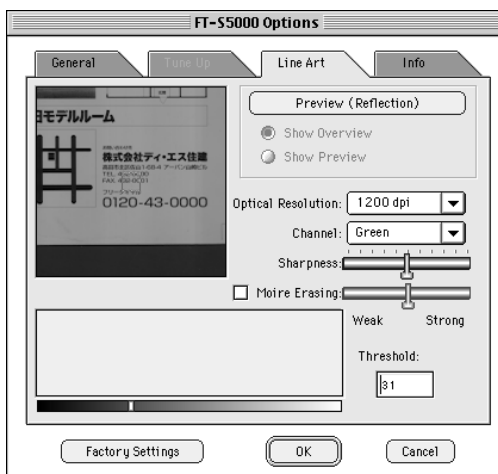
Note

- You can set the image independently for each type of input original. Note, however, that you cannot select the "Tune Up" tab when the input original type "Line Art" is selected. (Setup regarding the linework image quality is performed with the "Line Art" tab.)
 - You cannot select "Smoothing" when "Printed Material" is selected for the input original type.
- 5) Click the "OK" button and close the "FT-S5000 Options" dialog box.

Linework input setup

With the FT-S5000 Plug-in, transparent linework originals (film) or reflective linework originals (mechanicals) can be input from the FT-S5000. You can make settings regarding image quality when inputting linework originals, using the "Line Art" setting panel.

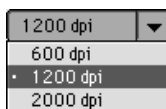
- 1) Set the linework original to be read by the scanner.
- 2) Click the "Line Art" tab in the "FT-S5000 Options" dialog box.



Note

The Line Art setting panel is displayed only when "Line Art [Trn]" or "Line Art [Ref]" is selected for "Original" in the scan menu window.

- 3) When the "Line Art" setting panel is opened, the overview window appears at the top left on the panel. This window presents the image that is pre-scanned when the FT-S5000's upper cover is closed. Scan part of this image, and set the input conditions for scanning.



To set the optical resolution:

Select the optical resolution from the "Resolution" menu.

Note

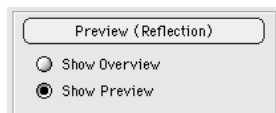
The set optical resolution will be used during the FT-S5000's full-resolution scan of an original. You can select a desired optical resolution from among the 2000 dpi, 1200 dpi and 600 dpi settings. The following table shows the prominent characteristics of each optical resolution.

Optical resolution	Scanning time	Fine detail reproduction quality	Number of scan passes for full tray table
600 dpi	Rapid	Low	Once
1200 dpi	Moderate	Moderate	Twice
2000 dpi	Slow	High	Four times

To set the preview area:

Preview scanning is performed over the small rectangular area in the overview window.

If you put the cursor in the overview window, the cursor changes to a small hand, and dragging this hand tool scrolls the overview image. In addition, if you place the cursor inside the scanning area (the small rectangle) and drag it, you can move the entire scanning area.



To start the preview scanning:

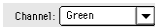
After setting the resolution and scanning area, click the "Preview" button. When preview scanning is completed, the scanned image of the selected area appears.

To re-perform preview scanning, click the "Show Overview" button. The display returns to the overview image, allowing you to re-perform preview scanning after changing the scanning area and resolution.

Note

If you are operating ColorGenius in a multi-client/server environment, while an image is being scanned upon another client's request, the overview image may not be displayed on your screen. Even if the above occurs, you still can set the line art controls. If you wish to preview the image in full resolution, be sure to display the overview image on your window by clicking the "Overview" button before previewing.

- 4) Use the preview-scanned image to specify the sharpness strength and the threshold level that determines black and white binarization.



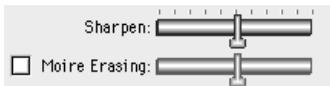
"Channel" selection:

Channel is the color of the filter to be used for scanning.

For example, when a black original has been corrected with a red pen, selecting "Red" for "Channel" enables scanning without the import of correction characters.

"Sharpen" adjustment:

Adjusting sharpness allows the edge of the input image to be blurred or sharpened.



"Moire Erasing" setting:

When linework is input, a moire pattern may appear on the input image due to light interference.

If such a moire pattern appears on the input image, check the "Moire Erasing" option check box. The moire erasing strength can be adjusted by moving the slider.

"Threshold" setting:

The histogram appears on the bottom left in the "Line Art" setting panel indicating the distribution of the pixel brightness in the image.

Set the threshold level for binarization of the image by either moving the slider under the histogram or directly inputting a numerical value. Specify an optimum threshold level while checking the preview image.

- 5) Click the "OK" button, and close the "FT-S5000 Options" dialog box.

Image import

This chapter describes the procedure to launch the FT-S5000 Plug-in from Photoshop and to import images scanned with the FT-S5000.

Launching the FT-S5000 Plug-in

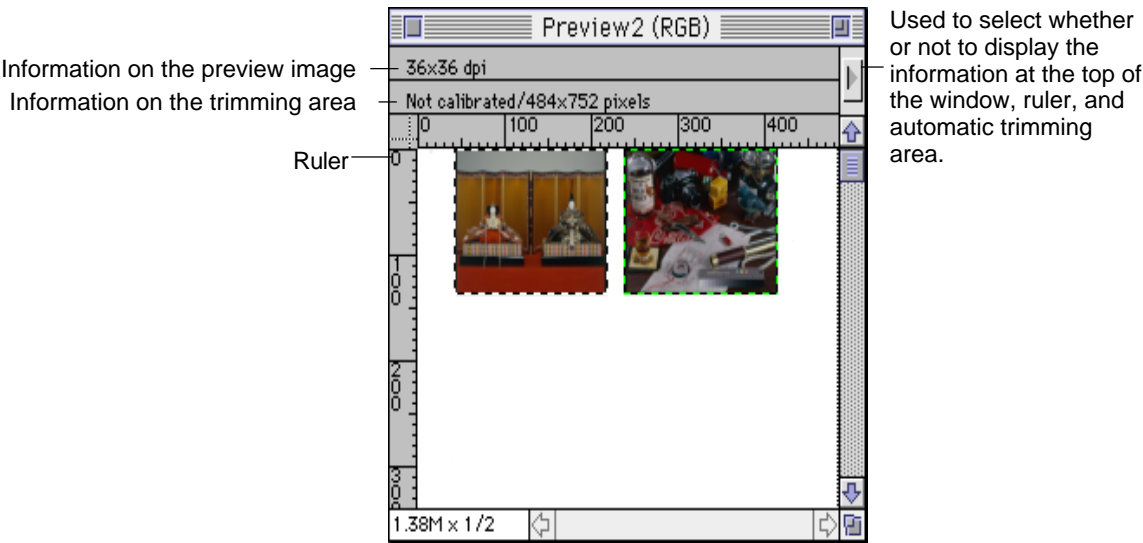
- 1) Set the original in the FT-S5000.
- 2) Launch Photoshop.
- 3) Select "Acquire" from the "File" menu, and select "FT-S5000..." from the sub menu. The FT-S5000 Plug-in scan menu window, tool box, and overview window appear.

Explanation for the displayed windows

Overview window

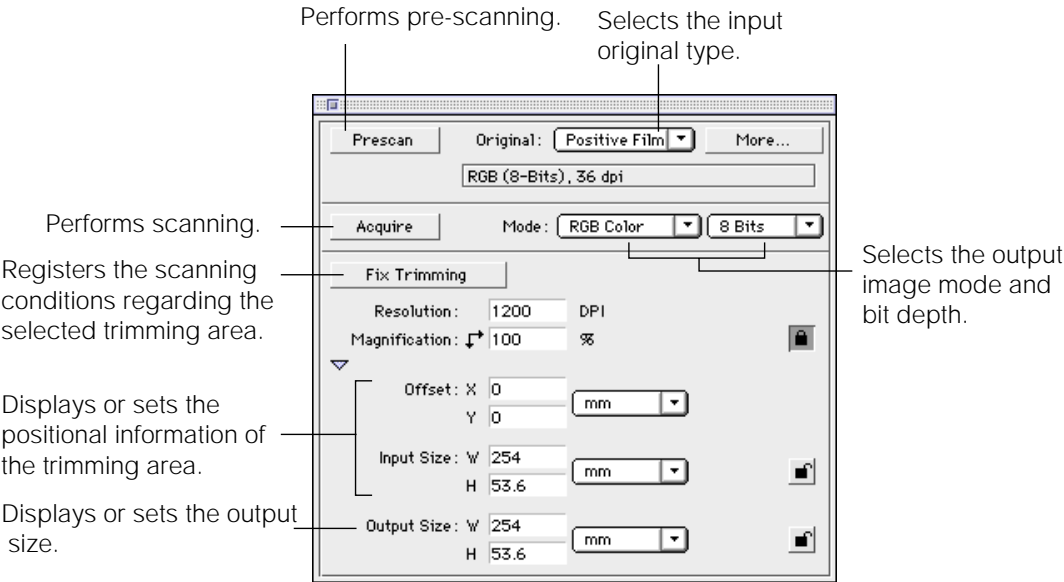
After an original is set on the FT-S5000 and the upper cover is closed, the FT-S5000 pre-scans the entire scanning area at the low-resolution of 36 dpi. This scanned image is called the "overview image", and this overview image window appears with the scan menu window when the FT-S5000 Plug-in is launched. (The overview image is displayed in the grayscale mode.)

You can also perform trimming for scanning with this overview window. If you perform pre-scanning, a color pre-scanned image can be imported at a higher resolution (72, 144, 216, or 288 dpi).



Scan menu window

This window allows you to set the scanning conditions.



Tool box



This tool box contains the respective tools for the trimming area designation, scrolling, scaling, and saving and loading input conditions.



Trimming selection tool:

Selects the trimming area. If you hold the mouse button down while putting the cursor on this tool, the pop-up menu for trimming method selection appears.

Single Setup: Used when you designate only a single trimming area.

Batch Setup: Allows you to set multiple trimming areas sequentially.

Note

Even when "Single Setup" is selected, you can designate multiple trimming areas by operating the mouse while holding down the shift key.

Hand tool:

Scrolls the visible portion of an image when a magnified image is not contained within the Image window. Selecting this tool changes the cursor to a hand. Scrolling is possible by dragging the hand in any direction within the image.

Magnifying glass tool:

Enlarges or reduces an image. Selecting this tool changes the cursor to a magnifying glass, showing a "+" mark inside. Placing the cursor in the image and clicking it enlarges the display. Press the Option key and the magnifying glass will show a "-" mark. Then, when you click the mouse button, the image will be reduced. Each click will double or halve the magnification.

Note that the center of magnified view will display the area where the cursor was located when clicked. The image can be magnified a maximum of 16 times, or reduced to 1/16th of its original size. When the enlargement/reduction rate reaches its limit, the magnifying glass will be blanked out. When displaying an enlarged (or reduced) image, double-clicking the magnification glass in the tool box restores the image to the default size.

**Setup tool:**

If you hold the mouse button down putting the cursor on this tool, the pop-up menu which allows you to select either saving or loading of the setup data appears.

Open Setup: Restores the data on scanning conditions (type of input original, trimming setup, output image mode and bit depth, and the resolution and magnification) that was saved using "Save Setup...".

Save Setup: Names and saves the setup data that is specified for the currently displayed trimming area.

Trimming

Using the trimming selection tool, trim the original displayed on the overview window. When multiple originals have been set, you can designate multiple trimming areas.

If you perform pre-scanning, color pre-scan images can be imported at a higher resolution (72, 144, 216, or 288 dpi), and trimming can be performed in the pre-scan window.

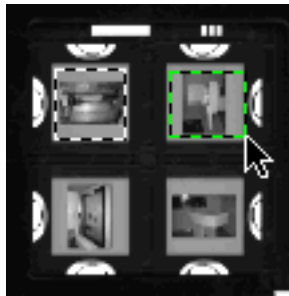
Trimming with the trimming selection tool

Select the trimming selection tool from the tool box. If you place the cursor on the start point and drag it in any direction, a rectangle is displayed with a dotted line. Releasing the mouse button selects the area. After the area is selected, placing the cursor at any of the four corners or sides of the rectangle changes the cursor shape, allowing you to modify the selected area. The whole selected area can be moved in a desired direction by placing the cursor at the center of the area and dragging.

Designating multiple trimming frames

You can specify a new trimming area, by placing the cursor on a new starting point and dragging it while holding down the shift key. The color of the previously specified trimming frame changes to white, and the newly set trimming frame appears in green. The green display indicates that it is the currently selected trimming area.

In addition, selecting "Batch Setup" from the trimming selection tool allows you to designate multiple trimming areas sequentially, without holding down the shift key. When "Batch Setup" is selected, the "+" mark appears on the right of the cursor.



To cancel the trimming area:

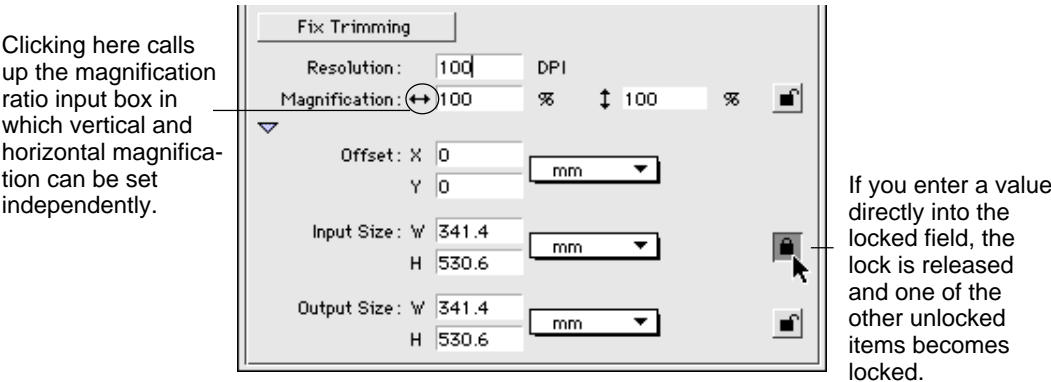
When the "Single Setup" tool is selected, by clicking somewhere other than the existing trimming area, all the trimming areas can be deleted. When the "Batch Setup" tool is selected, place the cursor inside the trimming area while holding down the shift key. The mark appearing to the bottom right of the cursor changes from "+" to "-". Put the cursor in the trimming area you wish to delete and click the mouse to delete the trimming frame.

Note

Pressing the ⌘ and "D" keys simultaneously deletes the green trimming area.

Trimming modification by numerical input

Click the triangle mark at the bottom of the scan menu window. The window expands, showing each field for displaying and setting the start point (Offset), input size, and output size. Also, when you select the area using the trimming selection tool, the start point, and input and output sizes are displayed.



"Offset" displays the distance from the origin point on the original tray to the start point (top left of the trimming area). "Input Size" displays the distance from the start point to the end point (bottom right of the trimming area). You can select the display units from either "mm" or "inch" for "Offset" and "Input Size". As for the display units used for "Output Size", you can select from among "mm", "inch", and "pixel."

Regarding the relationship among "Magnification", "Input Size", and "Output Size", if any of them is changed, one of the remaining two is also changed. Lock marks appear on the right of the fields, with one of them locked. The lock mark indicates that the value in the field will not change with a change made in another field. You can choose which field is locked with the mouse.

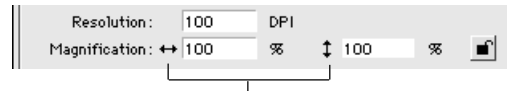
Note

After changing "Magnification", "Input Size" or "Output Size", be sure to click the "Fix Trimming" button. If you select a different trimming frame without clicking this button, the changed data is not registered and the original status remains unchanged.

To switch between the fixed and independent mode for setting the vertical and horizontal magnifications:

If you click the mark next to the magnification input field, another input field appears allowing independent magnification settings for the vertical and horizontal directions.

(You can specify the magnification ratio independently for each vertical and horizontal direction in the following fields.)



If you click either of the marks, the magnification setting is switched to the fixed mode.

Click either of the marks to change from the independent magnification setting mode to the fixed mode. The magnification ratio of the mark you have clicked will be applied in both the vertical and horizontal directions.

When "Magnification" is locked:

- If you change "Offset", the trimming frame moves.
- If you change either "Input Size" or "Output Size", the other changes according to the magnification ratio.

Note

If you change the value in the "Magnification" field when it is locked, the "Magnification" field becomes unlocked, and the "Input Size" field becomes locked.

When "Input Size" is locked:

If you lock "Input Size" when the vertical and horizontal ratio is fixed, the chain mark appears. In this case, the vertical and horizontal ratio of the "Output Size" remains unchanged.

- If you change "Offset", the trimming frame moves.
- If you change either "Magnification" or "Output Size", the other changes according to the "Input Size".

Note

When "Input Size" is locked, if you change the trimming size (input size) by entering a value from the keyboard or using the selection tool, the "Input Size" becomes unlocked and "Magnification" becomes locked.

When "Output Size" is locked:

If you lock "Output Size" when the vertical and horizontal ratio is fixed, the chain mark appears. In such a case, the vertical and horizontal ratio of the "Input Size" remains unchanged.

- If you change "Offset", the trimming frame moves.
- If you change either "Magnification" or "Input Size", the other changes according to the "Output Size".

Note

If you change the value in the "Output Size" field when it is locked, the "Output Size" field becomes unlocked, and the "Magnification" field becomes locked.

Show Default Crops

The FT-S5000 has the ability to automatically recognize the position of the original during overview scanning. When trimming is performed in the overview window, the automatic trimming function can be used.



To display automatic trimming areas

- 1) Select "Show Default Crops" from the pull-down menu of the triangle mark located at the upper right of the overview window.
The automatically trimmed area appears with fine dot lines.
- 2) Click inside the automatically trimmed area. The color of the dotted line changes to green, indicating that the area is selected as a trimming area.
- 3) If multiple originals are set, click another original while holding down the shift key. A second trimming area is selected.

Note

The trimming areas are specified for the respective originals that are displayed in the pre-scan window. Scanning is performed on the specified trimming areas. Two trimming methods are available: using the selection tool in the tool box, and directly inputting a numerical value into each parameter on the scan menu window (refer to page 10). You can also designate multiple trimming areas sequentially.

Input original type and image mode setup

Selecting the input original type

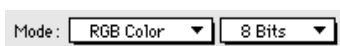


Six types of originals can be input with the FT-S5000: positive film, negative film, photograph, printed material, linework (transparency) and linework (reflection). The input original type can be set independently for each trimming area. You can therefore set different types of originals simultaneously, and set up different scanning conditions for them.

Note

However, you cannot set linework originals and other types of originals (positive film, negative film, photograph, printed material) together.

Selecting output image mode and bit depth



Select the mode of the image to be imported (RGB Color, Grayscale, or Bitmap) and bit depth (1 Bit, 8 Bits, or 16 Bits) from the "Mode" menu. The image mode and bit depth that can be set vary depending upon the input original type as follows.

When "Positive Film", "Negative Film", "Photograph", or "Printed Material" is selected

You can select either the "RGB Color" or "Grayscale" image mode.

If the image mode is set to "RGB Color", either "8 Bit" or "16 Bit" bit depth can be selected. If "Grayscale" is selected, the bit depth is fixed to "8 Bit."

When "Line Art [Ref]" or "Line Art [Trn]" is selected

The image mode and bit depth are automatically fixed to "Bitmap" and "1 Bit" respectively.

Saving and loading the setup file

You can save the scanning condition data that has been set with the pre-scan window (or overview window) as a setup file.

If the scanning result is not satisfactory, you can open this setup file to modify only the part you wish to change, and then re-perform scanning.

Saving the setup file



- 1) Drag the setup tool to display its menu, and select "Save Setup...".
The saving dialog box appears.
- 2) Specify the place to save the file and the file name, and click "Save".
The setup file is stored.

Applying the setup file

- 1) Select "Open Setup..." from the setup tool menu.
- 2) Select the setup file to be applied, and click "Open."
The selected setup file is applied to the pre-scan window (or overview window).

Image import

After the setup for each original (trimming area) has been completed, click the "Acquire" button. If multiple originals have been set, scanning is performed in the most efficient order regardless of the order that they were set up.

If the scanning has been completed, the FT-S5000 Plug-in automatically quits, and the window showing the scanned image appears. For retouching and saving procedures for the imported image, please refer to the Photoshop manual.

Performing any operations with the host computer while capturing images with the scanner slows down host computer's image transfer speed, occasionally causing the FT-S5000 to temporarily stop scanning (start & stop function). This is because the scanner stands by for the computer to complete all input data transfer.

The occurrence of "start and stop" particularly during lineart original input may cause it to appear uneven.

Therefore, never perform any operations with the host computer while capturing lineart original.

FT-S5000

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