

Precautions and restrictions when using the FT-S5000 and ColorGeniusEX.

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We would like to take this opportunity to sincerely thank you for choosing the DAINIPPON SCREEN FT-S5000. This document describes some precautions and restrictions which should be observed when using the FT-S5000 and ColorGeniusEX. Please read this manual thoroughly before using either, and keep it at hand to refer to as necessary.

< Restrictions when using software including ColorGeniusEX>

- Notice not to use multiple application software related to the controller for FT-S5500 at the same time.

In MAC OS X, don't use multiple application software related to the controller for FT-S5000, "Server", "FT-S5000 Maintainer" and "Descreening Tool" at the same time.

If you use those application software at the same time, FT-S5000 may not work normally.

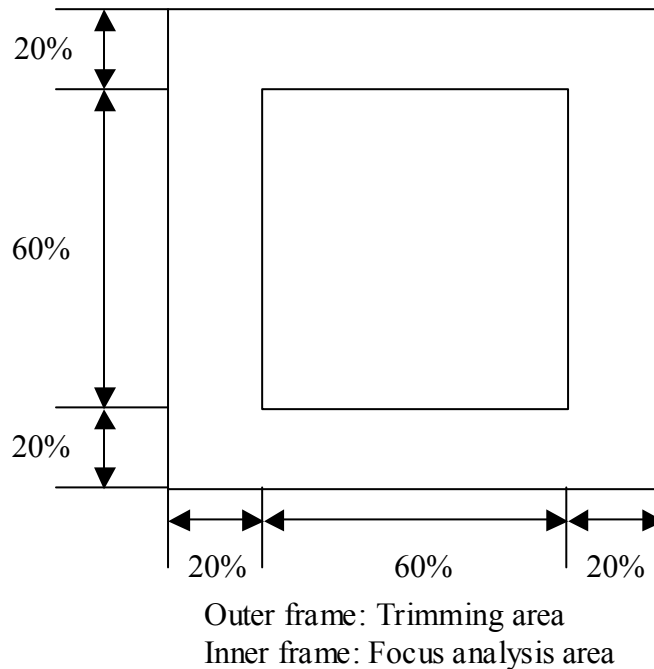
<Precautions and restrictions when using ColorGeniusEX>

- About the FT-S5000's auto focus function

- Although we do not guarantee that the FT-S5000's auto focus function will perfectly focus all types of originals, the following information should help you achieve more reliably focused scans.

In the FT-S5000, auto-focusing is carried out on the 60% of an original's specified trimming area with the most contrast (along the X-axis or horizontal direction on the display monitor). Therefore, if the "9506 Could not detect focus point." warning message appears, this problem may occasionally be resolved by defining a larger trimming area. (This is because the larger the trimming area, the more contrasty image area it is likely to include.)

In cases where no warning message appears, but this image is still out of focus, it is possible that dust from the image frame (outside the image area) or the tray table may have entered the analysis area and interfered with focusing. To avoid this problem, select trimming areas that contain the least possible dust and edge area.



- FT-S5000 scanner

- The FT-S5000 can be used approximately 3 minutes after its power is turned ON. Although you can use the FT-S5000 to perform image pre-scanning and image setup during these 3 minutes, you cannot scan images at full-resolution. To scan lineart originals with the FT-S5000 set to lineart mode, you must warm-up the FT-S5000 for more than 30 minutes after turning it ON. If you attempt scanning before the FT-S5000 is fully warmed-up, some areas of the original image (especially areas in the center of the original tray) may not be input correctly.
- If you try to set the original tray in the wrong direction, a pin on the rear of the original tray will prevent it from seating properly on the tray table. Sometimes, heat from the FT-S5000's light source can slightly distort the tray table, making it difficult to place the original tray securely or snugly on the tray table. Therefore, please be sure that the original tray is positioned correctly on the tray table and there are no gaps of any kind.
- The glassless holders in the optional "Compound Tray Set" can only be used for scanning originals at a low magnification (200% or less). To capture originals using magnifications higher than this, we recommend that you use a plastic holder.
- The lineart glass tray is dedicated for use with lineart originals. Using the lineart glass tray for scanning in any other modes may impair the resulting input quality.
- Before inputting line art, fix the original to the tray with adhesive tape, and then attach the tray firmly to the tray table using the "tray securing attachment." If the original or tray is not fixed firmly, some areas of the original image (especially the image areas in the center of the tray) may not be input correctly.
- If you are using a glass tray, make sure it is not subject to excessive strain.

- Temporarily halting the FT-S5000

- Be sure not to execute too many (server/client) operations while capturing images (especially lineart) with the FT-S5000. If the application software memory is low, or if you perform too many (client/server) operations, the image transmission speed from the FT-S5000 to the computer could drop, causing the image inputting to halt temporarily. This is because the FT-S5000's data transmission is preempted and delayed by the computer's processing. If transmission is interrupted and the "temporary halting function" message appears during line art scanning, the input image may appear to be uneven.
- When the "energy saving" mode (sleep mode) is set to ON in the Mac OS settings, entering the sleep state may interrupt data communication between the client and server computers. This phenomenon may occur if your computers are left for more than two minutes with no operations to perform. In such cases, therefore, turn the sleep mode OFF.
- Concerning the relationship between optical resolution and scan resolution

In ColorGeniusEX, it is suggested that you select a combination of optical resolution and scan resolution from among those shown below, depending upon your particular productivity and image quality requirements.

| Optical resolution | Scan resolution (input resolution x enlargement/reduction ratio) |
|--------------------|--|
| 600 dpi | 360 dpi to 1200 dpi |
| 1200 dpi | 600 dpi to 2400 dpi |
| 2000 dpi | 1000 dpi to 4000 dpi |

- Capturing line art

- When capturing line art via the FT-S5000 Photoshop Plug-In, the largest line art size (A3 plus) cannot be handled at 2000 dpi. The maximum allowable input size is 26816 x 30000 pixels. This is because the maximum image size that Photoshop can handle is 30000 x 30000 pixels. Use ColorGeniusEX Pro3 if you wish to capture images of the maximum permitted size.
- If a cross-line screen tone is included in an original, moire patterns may appear when the original is tilted at a certain angle. If you try de-focusing to remove the moire patterns, the image quality may be adversely affected.
- You cannot mount a layout sheet when scanning an image in the 1200 dpi line art mode with the original in a standard tray. (Only a single film or sheet of paper can be mounted.)
- You can mount a layout sheet containing up to two sheets of phototypesetting (PTS) paper when scanning an image in the 1200 dpi lineart mode with the original in a glass tray. (However, the combined height of both sheets of PTS paper can be no more than 200 microns.)
- You cannot mount a layout sheet when scanning an image in the 2000 dpi line art mode with the original in a line art glass tray. (Only a single film or sheet of paper can be mounted.)
- The standard tray does not support the 2000 dpi lineart mode. When capturing lineart at 2000 dpi, always use a glass tray.

- In the FT-S5000 lineart scanning mode: when the input resolution is 1200 dpi, scanning is performed twice over the scan area which is divided into two in the primary scanning direction (X direction). At an input resolution of 2000 dpi, scanning is performed four times and the scanned area is divided into four. It should be noted that images consisting of two or four segments may appear shifted or distorted along their joined edges due to wrinkles, creases or other irregularity in the original, inadequate contact between the original and the original holder, or a shock or jolt from outside. In such cases, check and adjust the condition of the original as necessary and repeat scanning.

Before it begins scanning, the FT-S tries to find the optimum image junctions to minimize the appearance of image shifts or distortion. However, depending upon the layout of the scanned original, it may still capture some poorly jointed images. If this occurs, slightly move or remount the original in the original holder and perform scanning again to obtain a better configured image. Before proceeding any further, be sure to always check the condition of each image scanned in the lineart mode by displaying the image in Photoshop. (For your reference, the joint location for an image captured at 1200 dpi will be approximately 166 mm from the X direction scan start line. For a 2000 dpi-captured image, the joint locations are approximately 86 mm, 171 mm, and 255 mm in the X direction.)

- If the original contains some areas with a dot percentage less than 10% or more than 90%, we strongly recommend that you activate the "Moire Erasing" function during scanning. Moire erasing will help reduce the dot percentage shift when percentages differ around the joint location(s).
- If the original contains small dots with a screen ruling of more than 100 lines/inch, the dot percentage around the joint location may differ. In this case, moire erasing can reduce that difference.
- When scanning two dotted originals that partially overlap each other, the scanned image of the overlapping part may be disturbed around the joint line. To properly scan the image, reset or adjust the originals to position the overlapped area completely inside one scanning area.
- In the FT-S5000 lineart scanning mode, the image area to be scanned may deviate by approximately 3 mm from the trimming area set in the GUI. Therefore, we recommend that you set a trimming area that is larger than the actual image area to be scanned.
- In the FT-S5000 lineart scanning mode, when the trimming start point is set to more than 160 mm in the X direction at 1200 dpi, the original will be scanned no more than 329 mm in the X direction. If you need to scan 330 mm or more of the original, the trimming start point must first be set to less than 160 mm in the X direction.

- Trimming images

- During pre-scanning, trimming may at times not be automatically performed depending on the original type or the settings. In particular, trimming will not be performed if an original is set in the oil holder or the resin holder on the compound tray (without a mask sheet). In this case, select a menu other than "Auto" for the pre-scan area.
- If two originals are set closely to each other, they may be recognized as one and trimming for a

single image might be performed. When placing more than one original, maintain at least a 2 cm. separation between each of them.

- When repeating trimming for the same size image, the first setup can be re-applied to subsequent images simply by using or repositioning the trimming area retained in the pre-scanning window.

- Notes on scanning 35 mm originals:

- If you set the prescan resolution to 36 dpi, there are not enough pixels for Intelligent Setup and AI Setup to function properly. This may cause the setup routine to select improper highlight and shadow points. To scan a 35-mm original, set the resolution for the prescan to 72 dpi or higher, or use the high-resolution preview.

- Number of originals that can be batch scanned:

- Up to 99 scans can be performed, using batch scanning or background scanning.

< FT-S5000 Photoshop Plug-in>

- The FT-S5000 Plug-in can be operated in Mac OS 9, however, it does not support Mac OS X.
- The FT-S5000 Plug-in supports PhotoShop Ver. 3.1.4 or higher.

<Precautions during maintenance>

- Opening and closing machine covers

- When closing the upper cover, press down the cover on the upper right of the machine so that it will firmly contact the magnet.
- The front cover must be opened by pulling both the right and left handles. Opening this cover with only one of the two handles may apply excessive strain to it or twist and jam it midway.
- When closing the cover for a transmission light source after lamp replacement, hold the cover firmly until it is fully closed to prevent it from falling.
- Be sure to tighten the screw securing the left cover. This cover can be initially attached to the machine without a screw, but it will eventually come loose and fall.

<Concerning maintenance tools>

- Color data obtained by measuring color calibration targets

- Clicking "Scan" in the calibration trimming window displays an untitled file dialog. In this dialog, select the target color data measurement file for color calibration. This file is provided on a floppy disk packaged with the calibration target.
