

# ***Xerox FreeFlow Scanner 665***

***Customer Software Release Supplement***

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Xerox Corporation  
Global Knowledge and Language Services  
800 Phillips Road - Bldg. 845-17S  
Webster, NY 14580

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Changes are periodically made to this document. Changes, technical inaccuracies, and typographical errors will be corrected in subsequent editions.

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# 1. Introduction

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## Overview

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This *Customer Software Release Supplement (CSRS)* is issued with the Xerox FreeFlow Scanner 665 to provide customers with information specific to the FreeFlow Scanner 665.

*NOTE: This CSRS contains only a Hints and Tips section for the FreeFlow Scanner 665.*

### **Xerox FreeFlow Scanner 665**

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The Xerox FreeFlow Scanner 665 is a new Xerox scanner that converts documents in digital format and scans 8.5 x 11 inch black and white single-sided documents at 65 images per minute (ipm) at 600 dpi.



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## 2. Hints and Tips

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### Hints and Tips

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The Hints and Tips in this section have been written to support the launch of the Xerox FreeFlow Scanner 665.

## FreeFlow Scanner 665

Table 2-1 lists Hints and Tips for the FreeFlow Scanner 665.

**Table 2-1. FreeFlow Scanner 665 Hints and Tips**

#	Feature/Function	Hints/Tips
1	Hole Fill	<p>Regular use of the “Hole Fill” function in the scanner requires <i>daily</i> cleaning of the paper guide on the automatic document handler (ADH). The paper guide is the long, dark gray, plastic strip on the underside of the ADH, has a pattern of very thin images, and two cutouts for the rollers. The following steps should be used to clean this part:</p> <ol style="list-style-type: none"> <li>1. Apply “Xerox Lens and Mirror Cleaner (XPN 43P81)” to a clean, <b>lint free, non-abrasive</b> cloth.</li> <li>2. Lift up the ADH.</li> <li>3. Identify the flat, dark gray paper guide on the right-hand, underside of the DADH. The paper guide is a long, flat piece of ribbed plastic, 5 inches from the right-hand side of the DADH. The paper guide is approximately 13 inches in length and 1 inch wide and pivots in the right/left motion when touched. This part also has two “cutouts” in it with two rollers resting in the cutouts.</li> <li>4. Rub the cloth in the right-to-left motion across the paper guide, starting at the back of the scanner, working your way to the front.</li> </ol> <p style="text-align: center;"><b>CAUTION</b></p> <p style="text-align: center;"><i>Be careful not to dislodge the thin belt near the roller closest to the front of the scanner.</i></p> <p>The system may inadvertently white-fill small “blocks” (~3-5 mm in size) of a scanned image in areas of the original that are similar to the pattern on the document feeder paper guide. To eliminate these white-fill blocks, disable the “Hole Fill” option.</p>
2	“Hole Fill” when “Reprocessing” images in “Preview”	<p>The “Reprocess” command does not eliminate holes.</p> <p>If a “Preview” of an image is made with “Hole Fill” turned off, and “Reprocess” is selected with “Hole Fill” off <b>or</b> on, the holes will <i>not</i> be removed from the previewed image. Holes will be removed from the final scan “Accept”.</p>
3	Scanning photographs	<p>Scanning photographs through the document handler is not recommended due to the potential for damaging the original, as well as the susceptibility of “streaks” in the resultant scanned image.</p>
4	Artifacts in “Automatic” mode	<p>Windows &lt; 0.5” x 0.5” are categorized as “background” and subsequently, are processed differently from nearby windows (documents with a lot of “small sized” content, such as maps with “landmarks” on them, are most susceptible to this type of failure). This also occurs when scanning originals with light shades of yellow and blue.</p> <p><i>NOTE: If this problem occurs, the document should be scanned in a different orientation, or off of the platen glass.</i></p>

**Table 2-1. FreeFlow Scanner 665 Hints and Tips**

#	Feature/Function	Hints/Tips
5	Fast Preview	It is recommended that you leave the PC monitor screen resolution at the default setting when the system is installed (1024 x 768). If the screen resolution is changed from this default, the rulers on the scanner preview window may be covered by the preview image, particularly with smaller, custom sized originals.
6	More - Pictorial Rendering	The Brightness, Contrast, and Advanced Image Adjustment controls will not function if the "Pictorial Rendering" selection (found in the "More" button on the "Image Quality" tab) is changed to "Threshold" for any "Original Type" other than "Text and Line Art."
7	Background Suppression	Background suppression has improved significantly as compared to the "DocuImage 620S Scanner" and the "Production Scanner". Specifically, the "Normal" selection will remove the background on the wider range of background darkness levels. Documents with darker backgrounds or darker colored stocks that previously required background suppression settings of "Strong" or "Very Strong" may no longer require these settings.
8	SCSI scanner connection	It is important to ensure the connectors on the SCSI interface cable that connects the scanner to the PC is properly seated and the thumbscrews holding the connector are tightened. If the screws on the connector are not tightened, the connections, particularly on the scanner, may become loose over time, resulting in one of the following fault codes: 62-125, 62-145.
9	System calibration	The scanner image quality may vary <i>slightly</i> for the first 20 - 30 minutes of operation if the scanner has been turned off for an extended period of time. If the scanner has been turned "off" for longer than 48 hours, it is recommended that you calibrate the scanner immediately prior to scanning a job for the first 20 - 30 minutes of operation after powering on.
10	Windows "Found New Hardware" message	Upon a reboot of the scanner and the PC, Windows may occasionally display a "Found New Hardware" message, despite having completed a full installation of the scanner hardware. Assuming the devices were rebooted in the proper sequence (scanner first, until the "Ready" light is lit, then the PC), this message can be ignored by selecting "Cancel" from the "Found New Hardware" dialog.
11	Pictorial rendering warning message	Changes made to the "Pictorial rendering" selection, followed by a change in the "Original Type" selection, may yield a warning, noting that the pictorial rendering has been automatically changed ("Warning - setting change - the following setting will be reset: Pictorial rendering"). <i>NOTE: The "Pictorial rendering" selection is located by selecting the "More" button on the "Image Quality" tab of the scanner driver.</i>
12	Printing Help	If you attempt to print the full contents of "Help" (Go to Help and choose the heading "Solving Problems", then choose to print "selected heading and all subtopics"), the last subtopic entitled "Clearing Jams and Misfeeds" does not print and must be printed separately.

**Table 2-1. FreeFlow Scanner 665 Hints and Tips**

#	Feature/Function	Hints/Tips
13	Low resolution scanning of text	Scanning text printed in 10pt font or less at resolutions of 100 dpi or less will result in image content that may be difficult to discern. These low-resolution selections are typically used for generating thumbnails. If better readability is desired, resolutions of 200 dpi or higher should be used.
14	Original Types / Image File Sizes	Originals scanned using incorrect "Original Type" selection (scanning a halftone in "Photograph" mode, for example) can yield image file sizes that are significantly larger than the resultant file size scanned in the correct "Original type".
15	Second-side show-through when scanning from the platen	Originals with a large amount of dark content on the reverse side of a page, may exhibit more "show-through" in the resulting scanned image than if scanned through the document feeder. If show-through is a problem, place a black piece of paper on top of the original being scanned from the platen. A stronger "background suppression" setting may also help in removing unwanted show-through.
16	Scanner Support	Unpredictable behavior can result if the scanner diagnostic software ("Scanner Support" application) is invoked while the scanner is booting. The application should be run with the scanner fully powered off, or fully powered on.
17	Image registration	If scanned images repeatedly contain thin, black lines on the edge of the image, run the "Setup Registration" routine in the "Scanner Support" application to re-set the scanner's registration.
18	"Help"	<p>The following information in "Help" about "Scan Tickets" is incorrect:</p> <ol style="list-style-type: none"> <li>1. Within the Twain GUI, go to the Help menu and then the Index —&gt; Scan Tickets.</li> <li>2. Choose the "Backing up your scan ticket tiles" option.</li> <li>3. Part 2 reads: Select [Start: Programs: Windows Explorer] - with Windows XP, it should read [Start: Programs: Accessories: Window Explorer].</li> <li>4. Part 3 reads: "Browse to C:\winnt\Twain_32\Xerox665s\international" - with Windows XP, it should read "C:\Program Files\Common Files\Xerox\Scanner".</li> </ol> <p>The following information in "Help" on "Scanner Specifications" is incorrect:</p> <ol style="list-style-type: none"> <li>1. Within the Twain GUI go to Help --&gt; Index --&gt; Scanner Quick Reference --&gt; Document Feeder --&gt; Scanner Specifications.</li> <li>2. Note that under the Minimum paper dimensions reads 6.5 x 5.5 inches, long edge feed — this should read short edge feed.</li> <li>3. Under document Feeder --&gt; Color Spaces &amp; resolutions supported Binary B/W reads 76 - 1200 dpi — should read 72, 75, 96, 100, 120, 150, 200, 240, 300, 400, 600, 1200 dpi.</li> </ol>
19	Electronic Page Deskew	Although the "Electronic Page Deskew" (Options: Preferences) is enabled when scanning from the platen or the feeder, it is only functional when scanning from the feeder.

**Table 2-1. FreeFlow Scanner 665 Hints and Tips**

#	Feature/Function	Hints/Tips
20	Scanner driver options in 3rd party applications	When using any application other than “DigiPath” to call the scanner driver (i.e., PhotoShop), some GUI selections may not be available and/or may be set to different default settings. These selection and defaults settings will differ from application to application.

The following sections include more Hints and Tips for the FreeFlow Scanner 665.

### **“Automatic” mode line screens**

When changing the default resolution in “Automatic” mode, it is recommended that you also change the line screen. Line screen selections are listed in the “Pictorial Rendering” list box (found in the “More” button on the “image Quality” tab). Table 2-2 lists the *default* values for the specific selections and the recommended alternative selections:

**Table 2-2. Recommended alternative values**

“Optimize Image For”	Default res./default line screen	Alternative res./recommended line screen
DocuTech 100/120 Pro	1200 dpi / 141 lpi	600 dpi / 125 lpi
DocuTech 100/120 C/P	600 dpi / 125 lpi	1200 dpi / 141 lpi

## DocuTech Original Types

“DocuTech” Original Type are no longer available with the FreeFlow Scanner 665. DocuTech original types are image quality selections that would optimize the scanner performance such that it produced image quality similar to that which is available on the original DocuTech 135. Table 2-3 defines the settings on the FreeFlow Scanner 665 that can produce image quality similar to what is available on the original DocuTech 135.

For **each** desired DocuTech mode be sure to select “Xerox DocuTech 6135” as the target printer (“Optimize image for”).

**Table 2-3. FreeFlow 665 Scanner settings**

DocuTech Mode	FreeFlow Scanner 665 “Original Type”	Brightness or Fine Adjustment	Sharpness	Background Suppression	Pictorial Rendering (“More” button)
Standard	Text and line art	0	2	Mild	Threshold
Paste-Up	Text and line art	1	5	Mild	Threshold
Colored Background	Text and line art	0	2	Normal	Threshold
Light Image	Text and line art	-10	2	Mild	Threshold
Photograph	Photograph	11, 32, 54, 74, 91	2	Off	DocuTech 106 HT
Halftone (30 - 100 lpi)	Fine Halftone	18, 36, 50, 64, 82	2	Mild	DocuTech 106 HT
Halftone (101 - 300 lpi)	Coarse Halftone	0	4	Mild	Threshold
Photograph and text	<i>Using “IQ Windows”:</i>  Set window 1 (Entire page) to: <b>Text and line art</b>	0	2	Mild	Threshold
	Set Window 2 (etc.) to: <b>Photograph</b>	11, 32, 54, 74, 91	2	Off	DocuTech 106 HT

**Table 2-3. FreeFlow 665 Scanner settings**

<b>DocuTech Mode</b>	<b>FreeFlow Scanner 665 "Original Type"</b>	<b>Brightness or Fine Adjustment</b>	<b>Sharpness</b>	<b>Background Suppression</b>	<b>Pictorial Rendering ("More" button)</b>
Halftone and text	<i>Using "IQ Windows":</i>  Set window 1 (Entire page) to: <b>Text and line art</b>	0	2	Mild	Threshold
	Set Window 2 (etc.) to: <b>Fine Halftone</b>	18, 36, 50, 64, 82	2	Mild	DocuTech 106 HT

