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Scanning from TWAIN

Important: Before scanning, please take a moment to read through the scanner's user guide for important instructions about how to use the scanner.

The scanner user guide includes information on what type of documents can and cannot be scanned with your scanner. It also contains full setup and installation instructions, maintenance and troubleshooting procedures, scanner specifications, and scanner warranty information. The guide is located in the user guides section on the installation disc.

The information in this guide will cover hardware and software features that may not be available for the scanner model you purchased. Please disregard any information that does not apply to your scanner.

Some of the illustrations in this guide may not look exactly as they appear on your computer's screen. The differences are minor and do not affect the steps to use the features.

If you are scanning from the Apple Image Capture Application, which uses the ICA driver, the available file types are those supported by your version of OS X. This document is not intended to describe the features and functionality of the Apple scanning application and scanning interface. Please refer to the documentation and instructions provided with your computer.

Accessing the Scanner Interface

Every scanning application will access the scanner using a different method. Please refer to the application's user guide for instructions on using the application and accessing the scanner. There may be two scanner options available in the scanning application, labeled TWAIN or ICA. This document describes the TWAIN scanning interface. The instructions in the next section describes scanning using the Visioneer Scan Utility provided with your scanner.

A note about your scanner and the TWAIN standard:

TWAIN is a widely recognized standard that computers use to receive images from scanners and digital cameras. The TWAIN scanning interface can be accessed from any TWAIN scanning application you have installed on the computer. The driver interface described herein is the TWAIN driver that has been developed for your scanner. However, there are some applications that have their own TWAIN interface. If you are scanning from a software application, and see the interface shown in this section, you can use these instructions to scan with the TWAIN interface. If you do not see this TWAIN interface, please refer to your scanning application's user guide for instructions.

Scanning from the Visioneer Scan Utility

This utility uses the scanner's TWAIN interface for scanning. You can select a destination folder on your computer and save the image as any one of several popular image file formats (BMP, JPG, GIF, TIF, Multi-Page TIF, PDF, Multi-Page PDF).

The Visioneer Scan Utility is included on the installation disk and will allow you to configure scan settings and scan. From the Finder window for the installation disc, double-click on the installer package for the **Visioneer Scan Utility**. Follow the instructions on the screen to install the application.



1. Open the Visioneer Scan Utility.



2. To change the display language for the interface, choose one from the list.

Visioneer Scan Utility File Window Options	
Canguage Others	Crigitati Deutsch Itility Français
Setup Scan File Format	Italiano Русский
	Portuguese

3. Select **Show in Finder** to have the folder open when scanning is complete and the image has been transferred to that location.

4. Select the type of file format you want to use for your scanned documents.



Note: When scanning using the GIF format with high resolution, the image may be corrupted on older versions of OS X.

5. Select the location where you want the files saved.

- 6. Place a document in the scanner.
- 7. Click **Setup** to launch the TWAIN interface.
- 8. Adjust the settings for the item(s) you are scanning. When you have finished, click **OK** to close the TWAIN interface.

	Image D	ocument	Settings	Information		
Front Autom	atic		Dia da		Dynamic thre	shold ᅌ
Front Cold	r)		Bit de	oth reduction	Dynamic thre	siloid
Front Gra	/		Sensitivity		0	- 20
Front Black &	White		Brightness		0	- 0
Back Autom	atic		Contrast			- 0
Back Cold	r)					_
Back Gra	/		Resolution	200		200
Back Black &	White		nvert image	No		•
Scan sou	ce Automati	c		•		
Document s	ize Automati	c		0		
Pres	ets Custom					
Color correct	on None			0		

(above image is for example purpose only)

- 9. Click on the **Scan** button.
- 10. The scanned images will be previewed in the application and saved in the set location.

Using the Preview Window

Clicking the Preview Window button will display the preview window for the scanner interface. Use the preview option if you want to scan and display a sample image that reflects the current settings in the main interface. The preview window is also where you can define custom scan regions. Please refer to "Scan Regions" for instructions on creating and scanning custom regions.

Front Automatic					10	2 4 6	-
Front Color		Bit depth reduction	Dynamic three	shold ᅌ			
Front Gray	Se	nsitivity	0	- 20			
Front Black & Whi	te Bri	ghtness	0	- 0	Ē		
Back Automatic		ontrast		- 0			
Back Color		ontrast		_ 0	E		
Back Gray	Re	solution 200		200 0			
Back Black & Whi	te Inver	t image No		0	- -		
Scan source	Automatic	0					
Document size	Automatic	0			1 ⁰¹		
Presets	Custom	+ -			Ē		
Color correction	None	0			1 ²¹		
							-

To use the preview window:

1. Select the initial scan settings you want to use for the preview image and scanning.

If you want to modify the settings for a particular preset, make sure you select that preset before continuing.

- 2. Click the **Preview Window** button to open the preview window.
- 3. Click on the **Preview** button to scan and display a sample image in the preview window.
- 4. The preview window displays the scan area and the current scan region.

There are some settings in the main interface, such as brightness and contrast, which will immediately update the preview image after you adjust the setting.

If you select any of the document image adjustment options, such as an option to automatically rotate an image, it will not show in the sample image preview. The preview window displays an unaltered view of the item size and position in the scanner. Any document image adjustment options will be used while scanning and saving images.

5. When you are happy with the sample image, you can click **Scan** in the main interface to scan and save the image with the current scan settings.

Scan Regions

You can use the preview window to create a custom scan region for the scanner to use for scanning. For example, if you want to scan only a specific area of the image, you can move and resize a scan region to focus only on the area you want to scan. The final image will be only the size of the region you set.

Important: do not change the page size for the scanned image after you create custom regions. When you have set a custom region in the preview window, the page size field will display "custom" indicating you have specified a custom region for scanning. Changing the page size after you create a custom region discards the custom regions and sets a scan region to the size you selected in the page size list.

Creating a custom scan region:

- 1. In the main interface click **Preview Window** to open the preview window.
- 2. Place an item in the scanner and then click **Preview**.
- 3. The scanner scans and displays a sample image.
- 4. Click outside the currently selected area and drag the cursor to select a custom region.
- 5. Move the region until the sample image area you want is within the scan region.

Move the region by clicking in the region then dragging the mouse.

6. Click **Scan** in the main interface to scan using the custom region.

Default tabs

There are a number of tabs that are always available that contain basic features for scanning.

- "Image Panel" this panel contains basic scanning options
- "Document Panel" this panel contains the options for selecting page size.
- "Settings Panel" this panel contains options for controlling power and enabling optional tabs.
- "Information Panel" this panel contains hardware information for the scanner in use.

Disabled Options in this Section

Some options in the interface may be grayed out and cannot be selected. Grayed out options are either not appropriate for the current scanner *or* the feature is dependent on another setting in the scanner's interface.

Image Panel

This panel contains the most commonly used scan settings. When the UI is launched, this is the first panel available. Change to the Settings tab to enable the other panels.

		mage Documer				
	Front Automatic		Bit de	pth reduction	Dynamic thr	eshold ᅌ
	Front Color					
	Front Gray		Sensitivity		0-	20
2	Front Black & Whit	te	Brightness		0	— o
	Back Automatic		Contrast			0
	Back Color		ooningsi			- 0
	Back Gray		Resolution	200		200 0
	Back Black & Whit	te	Invert image	No		•
	Scan source	Automatic		0		
	Document size	Automatic		0		
	Presets	Custom		+ -		
	Color correction	None		0		

For simplex scanning, select any one of the "Front" *or* "Back" color streams. For duplex scanning, select both a "Front" *and* a "Back" color stream.

• **Automatic** determines the color of the document as it is being scanned. When this option is selected the other streams will be disabled.

- **Color** scans the document in color, creating a full color copy of an original document or photograph. Color scans have the largest file size.
- **Gray** scans the document using varying shades of gray to reproduce the document. The grayscale scan mode is often used when scanning documents or graphics where the original color does not need to be retained, but the graphics need to be legible. Grayscale scanning preserves the graphic quality while keeping the file size less than that of a full color scan.
- **Black and White** scans the document in bi-tonal where everything on the page is either black or white. This setting is often used when scanning typed or written documents. When there are not a lot of graphics, or if the graphics are not needed, this setting is ideal for archiving documents to a server or on a disc, send through email, or posting to a web page, as the file size is smaller than the other scanning modes.
- **Multi-stream** scanning is enabled by clicking on the check box next to multiple color modes. The scanner will create an image of each item scanned for each color mode you selected.

Contextual options

Some options change depending on the selected stream.

Automatic

Image	Document	Settings	Information		
Front Automatic		At.	a dataat aalar	✓ Black and White	
Front Color		Auto	o detect color	Gray	
Front Gray		Sensitivity		37	

- The **Auto Detect Color** option allows you to choose what non-color images will be scanned as, either black and white or gray.
- The **Sensitivity** slider can be used to adjust the amount of color content required for the page to be recognized as color.

Color

	Image	Document	Settings	Information		
	Front Automatic		Dit de	oth reduction	Document	0
Image: Contract of the second seco	Front Color		Bit de	printeduction	Document	
	Front Gray		Sensitivity		-0	20
	Front Black & White		Brightness		0	— o

• When a color stream is selected the **Color Correction** option becomes available. It can be changed to **None**, **Document**, **Photo** or **Mixed Document Stack** and will apply appropriate color calibration to give the best results for the selected document type. Selecting **None** will apply the default color calibration and selecting **Mixed Document Stack** will cause TWAIN to attempt to apply color calibration suitable for documents containing both images and text.

Scan source	Automatic	
Document size	Automatic	
Presets	Custom	+ -
Color correction	None Photo ✔ Document Automatic	

Gray Image Document Settings Information Front Automatic Document type 🗸 Document Front Color

The **Document Type** option can be set to **Document**, **Photo** or **None** depending on what kind of document will be scanned. These options contain pre-configured TWAIN settings to give the best results for the document type selected.

Photo

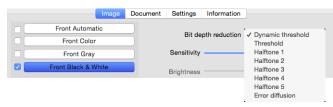
0

None

The **Threshold** slider is used to set the level of lightness or darkness in the final image.

Black and White

Front Black & White



Threshold _____

Brightne

The **Bit depth reduction** options are only available when scanning in black and white. Click the drop down menu and select an option from the list.

Threshold and Dynamic threshold

Threshold enables you to set what level of light or dark to look for on a page. When scanning in black and white, everything on the page is set to either white pixels or black pixels in the final image. If the text on the page is a light color, then the text may be gone in the final image as the scanner will change those light colors to white pixels. The threshold slider lets you set the level of darkness or lightness of the text on the page. Dynamic threshold attempts to evaluate the image and dynamically adjust the threshold level. These options work best for documents that contain only text such as business letters, spreadsheets, reports, etc...

Threshold — move the slider to the left or right to set the level of lightness or darkness for the • scanner to leverage from.

For example, if you are scanning a document with gray text, such as hand written pencil notes, move the slider to the right. This tells the scanner that the level to look for is light, and gray pixels are converted to black pixels instead of white. If the overall tone of the original document is dark, such as a colored background that may interfere with detecting black, move the slider left. This tells the scanner that the level to look for is dark, only very dark areas such as text are converted to black pixels.

If you are scanning documents that are in good condition, with black text on a white background, the default threshold option will properly scan the item. This level only needs to be adjusted if the scanned image does not have image clarity similar to the original.

Sensitivity — move the slider left or right to adjust the sensitivity level for dynamic thresholding. This slider is only enabled when **Dynamic threshold** is selected in the list.

Error diffusion and Halftone pattern

Error diffusion and **Halftone patterns** are the intentional application of noise (dithering) in the image to help alleviate banding when scanning in binary (black and white) mode. For example, if you scan a color photo in black and white, the image file will have large blocks of black and white and the image barely recognizable. Dithering the image creates a black and white image that is recognizable.

Below is an example of a color scan, a black and white scan without dithering, and a black and white scan with dithering. When the image is scaled down, it may look like a grayscale scan. When the image is at normal size or enlarged you will be able to clearly see the dithering pattern, as shown in the close-up image.



Color scan

Black and White scan

Dither scan

Dither scan - Close up



Brightness

Brightness is the overall lightness of the image. Move the slider left or right to darken or lighten the image. Adjusting the brightness level adjusts the tone of the pixels, without changing the true color of the pixels; such as when adjusting hue.

Choosing brightness values

Adjusting the brightness level is based on how you want the image to appear and there is no standard to adhere to. Below are some recommended options for brightness image correction based on the original document quality.

- Original documents of good quality 50%
- Pencil written letters, forms, or drawings 25% to 40%

- Faded pictures or old documents with faded text 35% to 45%
- Light colored carbon copy paper, such as yellow or pale pink or pale green, with light text $45\,\%$ to $55\,\%$
- Newspaper or magazine pages 55% to 70%
- Book pages 55% to 80%
- Pictures taken inside or in the shade 60% to 85%

Brightness works in conjunction with **Contrast** for image enhancement. When you are adjusting the brightness level to improve the scanned image quality, try adjusting the contrast level as well. The contrast level is the range between the lightest and darkest parts of the image. For example, if you scanned a document with notes written in pencil, you may have to decrease the brightness level to get the handwritten notes to appear in the scanned image. However, when decreasing the brightness, white starts to appear gray in the image. In that case, raise the contrast level to make the differences between the lightest and darkest part of the image more defined.

Color image brightness examples

The examples below show the original image at the default setting of 50% brightness level, 25% brightness and 75% brightness. Adjusting the brightness level does not make the image completely black nor completely white.







Brightness: 25%

Brightness: 50%

Brightness: 75%

Technical note:

Most monitors have a brightness setting that is user adjustable. When viewing scanned images on-screen, versus printing the image, the brightness setting of the monitor may affect how light or dark the scanned image looks when compared to the original. If the scanned image is too different from the original image, or if adjusting the scanned brightness level does not modify the image how you want, try adjusting the monitor's brightness level. Refer to the monitor's user guide for adjusting the brightness level and see if the manufacturer has any recommended settings.

Black background scanners:

Some scanners have a black background plate. A black background results in more precise cropping results and skew detection. However, when scanning thin paper, such as multi-part color forms or ruled writing paper, which are less than 18lb paper weight, the background may "bleed" through into the final image and make the image darker than it should be. In that case, try adjusting the brightness level between 60% and 80%.

Contrast

Contrast refers to the differences between the light and dark portions in the image. Move the slider left or right to decrease or increase the contrast levels. Increasing the contrast level emphasizes the difference between the lighter and darker portions of the image, decreasing the contrast de-emphasizes that difference.

Choosing contrast values

While **Brightness** adds the same amount of gray or white to all pixels in the image, **Contrast** adjusts the pixels based on the pixel color level. For instance, increasing the contrast level will add white to light colored pixels and gray to dark pixels to make the difference between color levels in the image crisper. Decreasing the contrast level will have the opposite effect, where light colored pixels are modified with gray and dark pixels are modified with white to make the transition of colors in the image appear smoother.

Adjusting the contrast level is based on how you want the image to appear and there is no standard to adhere to. Contrast works in conjunction with brightness for image enhancement, when decreasing the brightness level, the overall image becomes darker, in which case you may want to increase the contrast level so that the differences between the lighter and darker portions of the image are clearer.

Below are some recommended options for contrast image correction based on the original document quality.

- Original documents of good quality 50%
- Pencil written letters, forms, or drawings 55% to 65%
- Faded pictures or old documents with faded text 60% to 70%
- Light colored carbon copy paper, such as yellow or pale pink or pale green, with light text $45\,\%$ to $55\,\%$
- Newspaper or magazine pages 55% to 70%
- Book pages 60% to 75%
- Pictures taken inside or in the shade 40% to 60%

Color image contrast examples

The examples below show the original image at the default setting of 50% contrast level, 25% contrast and 75% contrast.



Contrast: 25 %



Contrast: 50 %



Contrast: 75%

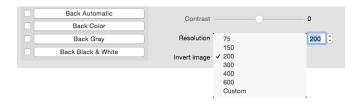
Technical note:

Most monitors have a contrast setting that is user adjustable. When viewing scanned images onscreen, versus printing the image, the contrast setting of the monitor may affect how clear a scanned image looks when compared to the original. If the scanned image is too different from the original image, or if adjusting the scanned contrast level does not modify the image how you want, try adjusting the monitor's contrast level. Refer to the monitor's user guide for adjusting the contrast level and see if the manufacturer has any recommended settings.

Black background scanners:

Some scanners have a black background plate. A black background results in more precise cropping results and skew detection. However, when scanning thin paper, such as carbon copy paper or ruled writing paper, which are less than 18lb paper weight, the background may "bleed" through into the final image and make the image darker than it should be. In that case, try adjusting the brightness level between 40% and 60%, then adjust the contrast level between 60% and 80%.

Resolution



The resolution determines the amount of detail you can see in the scanned image. Resolution is the clarity of the image measured in dots-per-inch (dpi).

Select a preset resolution option from the drop down list, or enter a custom resolution in the text box. The available range displayed in the list are within the minimum and maximum range supported by your scanner.

Choosing resolution values

Typically, when making copies of black and white documents, 150 to 200 dpi will create an image of similar quality to the original. When making copies of color documents or photographs, 200 to 300 dpi will create an image of similar quality to the original.

Higher resolution settings are generally used for creating an image that can be enlarged without losing image quality, but take longer to scan and produce large files.

Some resolution settings for typically scanned items are:

- Text document letters, forms, or other typed black and white documents 200 dpi
- Text document letters or forms with hand printed text 200 to 300 dpi
- Text document (for OCR) forms, letters, memos, or spreadsheets 300 dpi
- Business cards or other items with small print 300 dpi
- Color page with graphics or color photographs 200 to 300 dpi
- Color photographs of poor quality for image enhancement 400 dpi
- Color photographs for printing 200 dpi

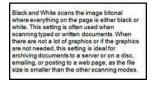
- Color photographs for email 100 to 150 dpi
- Magazine page with graphics, line art, or color photographs 200 dpi

Invert Image

The **Invert image** option reverses the color of each pixel in the scanned image.

Back Automatic	Contrast	- 0
Back Color	Contrast	Ū
Back Gray	Resolution 200	200 🗘
Back Black & White	Invert image V No	

When scanning in black and white, each pixel is reversed from black to white and white to black.





When scanning in grayscale each pixel is reversed to the opposite level of gray.



When scanning in color each pixel is reversed to the opposite color in the color wheel.





Scan Source

Color correction None	Scan source Document size Presets	 ✓ Automatic Flatbed Auto Document Feeder Merge two sides 	+-
	Color correction	None	٢

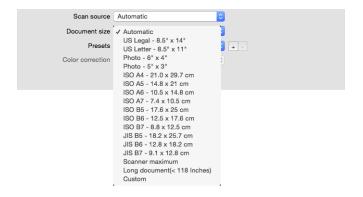
When you are using a scanner that has multiple sources, such as an ADF with Flatbed combination scanner, some options may be disabled based on the current source displayed in the source list.

- **Automatic** select this option to have the scanner automatically determine where the paper is in the scanner. This option is only available if your scanner has more than one paper source option, such an ADF with a front feed tray scanner, or an ADF with a flatbed combination scanner.
- **Flatbed** when this option is selected, scans will take place from the flatbed only.
- Auto Document Feeder when this option is selected, scans will take place from the ADF only.
- **Merge two sides** when scanning in duplex mode, you can enable this option to have both sides of a scanned item appear on one page in the final image file. The 'Merge vertically' option can be used to have both sides combined vertically instead of horizontally.

Technical Note:

- When Carrier Sheet Mode is enabled in the Document tab, the front side will be rotated 180 degrees.
- When using this option, the Edge Cleanup option and Digital Imprinter options are applied to the merged image, not individual pages.

Document Size



Click the drop down menu and select a pre-defined document size from the list. The available document sizes are within the scanner's range of minimum and maximum item size. See the Document Panel Options for additional options.

• Automatic — select this option from the list to let the scanner automatically determine the size of the item being scanned. This option is only available if the scanner supports this feature. This option may occasionally be grayed out as not all scanning applications support this feature.

ADF Scanners — always properly adjust the paper guides to the width of the paper in the input tray so that the pages feed into the scanner as straight as possible. Skewed pages may not crop properly.

<Placeholder new from Scanner guide>Front/Rear Feed Scanners —When scanning small pages such as Business Cards, we recommend using the front feed. Also ensure that Crop to Original and Straighten Image are used.</Placeholder new from Scanner Guide>

• Scanner Maximum — select this option to scan the maximum size without long document. Depending on the scanner model, the maximum scan area is usually 8.5" x 14" (A4 / U.S. Legal) or 11" x 17" (A3 / U.S. Tabloid).

- Long Document select this option to scan a page that is the scanners maximum supported length. If a smaller page is scanned the transferred image will not be automatically cropped.
- **Custom** select this option to enable custom page sizes. See "Custom document sizes" in the Documents tab.

Preset

Scan source	Automatic 🗘	
Document size	Automatic ᅌ	
Presets	Color Document	+ -
Color correction	✓ Receipts Custom	

A preset contains all features in the scanner interface, including color mode, resolution, paper size, and so on. After selecting the desired features, click the 'add' (+) button to create a new preset and enter a unique name.

To delete a preset, select it from the list and click the 'remove' (-) button.

Document Panel

		Image Docum	ent Settings Information	1
Docume	ent size	Automatic	C Inches	O
Car	rier shee	t mode	O Portrait	OLandscape
X Offset	0.00	0	Y Offset 0.00	0
Width	8.53	0	Length 14.00	0
Detect double	feeds			
Additional le	ength de	tection	0.00	
Ultrasonic c	letection	l.		
🔄 Stop scanni	ing after	double feed		
	arm		Sosumi.aiff	Browse
Double feed a				
Double feed a				

Document Size

Standard document sizes

Click the drop down menu and select a pre-defined document size from the list. The available document sizes are within the scanner's range of minimum and maximum item size.

Units

Select the measurement units you want to use from the Units list.

Document size	Automatic	0	~	Inches	
Carrier shee	t mode			Millimeters Pixels) Landscape

Custom document sizes

If the **Document size** list does not include the document size for your scanning batch, select 'custom' from the list. For documents with a width smaller than the scanner maximum, input the X offset and desired document width into the appropriate fields. Enter the scanner length into the correct field and if you wish to begin the scan part way into the page, enter the appropriate Y offset. You can only specify values within the scanner's minimum and maximum supported item size. Please refer to the maintenance section of the scanner user's guide for this information.

Docume	nt size Autom	atic	C Inches		0	
Carr	ier sheet mode		O Portr	ait	OLandscape	
X Offset	0.00	0	Y Offset	0.00	٢	
Width	8.53	0	Length	14.00	٢	

Long Document

Select **Long document from the document size list** to enable support of paper sizes up to the scanner maximum. After you select this option make sure you input the page length for your document in the custom input field, located below the **Document size** selection list.

Note that some of the options in the scanner interface cannot be used when the page length will be greater than 14 or 17 inches (depending on the scanner model). When you select this option, incompatible options will either be automatically disabled or the setting will simply be discarded while scanning.

Carrier Sheet Mode

Select this option to automatically crop to the document size while using a non-standard document (either fragile or irregularly sized) with a carrier sheet. This option is only available when 'Automatic' is selected from the Document size list. The **Carrier sheet mode** option applies color correction specifically tuned for processing images of documents scanned using a carrier sheet.

For more information on scanning with Carrier Sheets, see the "Loading Documents to Scan" section of the scanner guide.

Note: a carrier sheet is not included with all scanner models. Do not use this option in the TWAIN interface if a carrier sheet was not provided with your scanner.

Detect Double Feeds

Detect double feeds Additional length detection	0.00 0	
Ultrasonic detection		
Stop scanning after double feed		
Double feed alarm	Sosumi.aiff	Browse

Detect double feeds is the scanner's ability to detect when two or more pages are fed through the scanner at the same time or if a page longer than expected is scanned.

Additional length detection allows you to specify when to detect a page as being longer than expected. After enabling the option, enter a value in the text box. If the length of a page scanned is longer than the page length plus this value, a double feed will be detected. This option can only be enabled when Automatic or Long Document page size are not selected.

When **Ultrasonic detection** is turned on, ultrasonic waves are aimed at the document to detect multiple pages by the level at which the waves pass through the pages. The accuracy of this sensor depends on paper thickness and whether or not creasing is in the original document.

If you want to stop scanning a batch after a double feed is detected, enable **Stop Scanning After Double Feed**. Otherwise you will be notified at the end of a batch the number of double feeds that were detected.

If you want to change the alarm sound played when a double feed is detected, click the **Browse** button and select from the window that opens. The selected sound can be previewed by pressing the speaker button.

Note: This option is available in the interface only if the connected scanner supports this feature.

Technical Note:

If you are getting false double feed errors, try cleaning the inside of the scanner. Excessive dust on the sensor can cause false double feed errors. Refer to the maintenance section of the scanner's user guide for instructions on cleaning the scanner.

Continuous Feeding

Feeding		
Continuous feeding timeout	0	- 0 🗘 seconds

Select this option to enable a delay from when the last page is scanned and when the scanner stops the scan job. This allows you to scan one page at a time without having to click Scan for each page you put in the scanner.

To scan with continuous feed mode:

- 1. In the **Timeout** field, adjust the slider or input the amount of time you want the scanner to wait from when the last page is scanned and when the scanner stops scanning.
- 2. Place a document in the scanner.
- 3. Click Scan.
- 4. The scanning progress dialogue on-screen will display a countdown indicating how much time you have to place the next document in the scanner.
- 5. When you are done scanning all pages in your document, you can click on **Cancel** to stop the timer or simply let the timer run out.

Tip: the scanner may have a paper thickness switch that will adjust the rollers to allow for scanning items that are thicker than the maximum supported paper weight. If you adjust the scanner to allow for scanning very thick items, you will only be able to scan one item at a time. You can use the **Continuous feed** option to have the scanner automatically continue scanning after the next item is inserted into the scanner.

Settings Panel

	Image	Document	Settings	Information		
Image count		0			0	images
Sleep mode		-0)(15	0	minutes
Power off		-0)(240	0	minutes
Show progress window Show status messages			Tabs	lor dropout		
				tation		
			_ Se	paration		
				hancements		
			Im	printer		

- **Image count** set the number of images to scan before ending the scan job. When it is set to Infinite it will scan all the pages in the input tray. It can be adjusted using the slider or by entering a value in the text box.
- **Sleep mode** sleep mode is the low-power state when the scanner is not in use. You can adjust the amount of time you want the scanner to wait before it goes into low power using the slider or by entering a value in the text box.
- **Power off** input the number of minutes you want the scanner to wait before it turns itself off. It can be adjusted using the slider or by entering a value in the text box.
- **Show progress window** select this option to display the progress window of the document(s) during scanning.
- **Show status messages** select this option to show warning messages on-screen when the scanner rollers or pads have reached the end of their lifespan.
- **Save settings after closing** select this option to have changes made to the scan settings automatically saved when closing the TWAIN interface. When this option is not selected, changes made to the scan settings are discarded when the TWAIN interface closes.
- **Exit from opposite side** select 'Exit from opposite side' if you wish the scanned items to be passed through the scanner and ejected from the opposite side.

Tabs selection

In this section the following optional tabs containing advanced scanner settings can be enabled:

- "Color Dropout Panel"
- "Rotation Panel"
- "Separation Panel"
- "Enhancement Panel"
- "Imprinter Panel"

Information Panel

The Information tab shows the hardware information for your scanner. Some features described herein may not be available for the current scanner. Please disregard any information about features that you do not see in the interface for your scanner.

	Image	Document	Settings	Information	
Scanner model					
Serial number					
Driver version					
LLD version					
Firmware version					
Manufactured date					
First scan on					
Pad scan					
Roller scan					
Total number of pages s	canned				
Double Feeds					
Paper jams					
		Languag		lish	0
	Copyright © 2	2015 Xerox. Al	Rights Res	erved.	

Scanner Details

- Scanner Model this is the current scanner.
- Serial number the scanner's unique identification number.
- Driver Version this is the version of the scanner's TWAIN driver.
- LLD version the scanner's base driver version.
- Firmware version this is the scanner's hardware processor version number.
- Manufactured Date the date that the scanner was manufactured.
- First Scan On the date that the first scan was performed by this scanner.
- **Counters** click the reset button next to the counter you want to set back to 0.
- **Power On Time** the amount of time the scanner has been powered on.

Language

To change the display language for the scanning interface, choose one from the list.

Optional Tabs

The settings tab allows you to enable a number of optional tabs. Select them to access these advanced features.

- "Color Dropout Panel" this panel contains options to remove specific colors from a scanned image.
- "Rotation Panel" this panel contains options to rotate the scanned image.
- "Separation Panel" this panel contains options to automatically separate scanned stacks.
- "Enhancement Panel" this panel contains advanced image enhancement options.
- "Imprinter Panel" this panel contains options to digitally print text on scanned images.

Disabled Options in this Section

Some options in the interface may be grayed out and cannot be selected. Grayed out options are either not appropriate for the current scanner or the feature is dependent on another setting in the scanner's interface.

When you are using a scanner that has multiple sources, such as an ADF with Flatbed combination scanner, some options may be disabled based on the current source displayed in the source list.

If an option is unavailable, check to see which source is selected in the Image tab.

Color Dropout Panel

	Front Automati Front Color Front Gray			Color dropou	tNone	0
	Front Gray					
⊘ 🦲					Advance	d
	Front Black & Wh	ite		Mode	Normal	0
	Back Automati		Toleran	ce	0	- 10
	Back Color		Red -			128
	Back Gray		_			100
	Back Black & Wh	ite	Green -	0		128
			Blue -	0		128
				Color drop	out preview	

Color Dropout

Color dropout tells the scanner and software to remove a specific color from the image. You can select **Red**, **Green**, or **Blue** from the list, define custom colors to be dropped out of an image or drop colors automatically.

Front Automatic	Color dropout	d Nana
Front Color		Red
Front Gray		Green
Front Black & White	Mode	Blue Custom
Back Automatic	Tolerance	Automatic
Back Color	Red	128
Back Gray		128
Back Black & White	Green	128
	Blue	128
	Color dropo	out preview

This option is only available when scanning in grayscale or black and white. The example below shows the original text with a red watermark and the resulting image with the color removed



- **Custom** select to enable the fields for setting custom dropout colors and enabling multicolor dropout. You can set the custom color by either moving the sliders for **Red**, **Green**, and **Blue**, or by selecting the color from a <u>sample scan</u>.
- **Automatic** selecting this option will cause the scanner to attempt to determine the primary background color of the page and remove it. This option is useful when scanning documents printed onto colored paper.
 - Mode select Advanced to enable the Mode option. From the Mode menu, select
 Quality to enable the Tolerance slider.

Front Automatic	Color dropout No	ne 🗘
Front Color		
Front Gray	A	dvanced
Front Black & White	Mode 🗸 M	Normal Quality
Back Automatic	Tolerance	10
Back Color	Red	128
Back Gray Back Black & White	Green	128
	Blue	128
	Color dropout pr	eview 🧷

- Tolerance use the slider to adjust the precision of the color dropout.
 - **More precise** move the slider to the right to remove a range of colors closest to the pure color selected in the custom fields.
 - **More approximate** move the slider to the left to allow a wider range of colors based on the pure color selected in the custom fields.

Color Dropout Preview Window

To set the RGB values using a sample scan, place a document in the scanner, and then click the

Preview Window button and launch a preview scan. Click the \checkmark (dropper button) and click on a color in the image to set it as the dropout color.

Clicking the Color Dropout Preview button will show you a preview of the image with the selected color dropped.

Rotation Panel

	Image	Document	Rotation	Settings	Information
Rotate image		None			0
Split image		None			0
Flip side rotation		🖲 Book		🔿 Calendar	
Mirror image					
			ОК	Cancel	Preview window

Rotate Image

Select an option in this list to have the final image rotated when scanning is complete.

Rotate image Split image Flip side rotation	 None 90 Degrees 180 Degrees 270 Degrees Automatic
Mirror image	

Split Image

Select an option in this list to split the final image horizontally or vertically when scanning is complete.

Rotate image	None	0
Split image	✓ None	1
Flip side rotation	Horizontal Vertical	
Mirror image	·	

Flip Back Side

This option is available only if the current scanner supports duplex scanning and the Duplex option is selected in the scanning interface. Duplex scanning is enabled when both a Front and Back side color stream is selected on the Image tab.

Set this option to Calendar if you are scanning duplex pages that are calendar style orientation. The Calendar option will rotate the back side image 180 degrees from the front side. When scanning in duplex mode without this option selected, the back side image of calendar orientation pages will appear upside down in the final scan. This option does not automatically determine book page orientation versus calendar page orientation. If you have this option selected when scanning book orientation pages, the image for the back side of the page will appear upside down in the final scan. If you are scanning a batch of documents that contain both types of orientation, we recommend that you select Automatic in the Rotate image list.

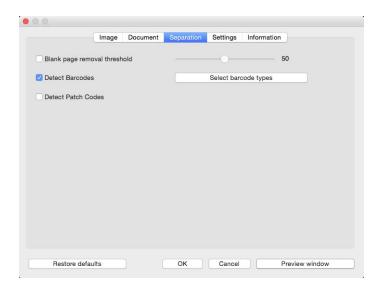
Mirror Image

The Mirror image option flips the image left-to-right.





Separation Panel



Blank Page Removal

Select this option to have the scanner detect if a blank page has been fed through the scanner, and remove it from the final file.

• Blank Page Removal Threshold — you can use the Threshold slider to fine tune the sensitivity of the blank image detection. The results will depend on the scan settings and the types of documents being scanned. In general leave the threshold level at the default setting if you are scanning good-quality documents printed on standard 20lb printer paper. Try lowering the sensitivity level if your documents contain light colored text or drawings so those pages are not detected as blank. Raise the sensitivity level if you are scanning double-sided light-weight paper where images from the opposite side of the page may appear in the image of the blank side.

Detect Barcodes

Select this option to enable the detection of barcodes on scanned pages. Clicking Select Barcode Types will allow you to fine tune which types of barcode can be detected.



Detect Patch Codes

Select this option to enable detection of patch code sheets while scanning. The action that occurs when a patch code is detected is dependent on the scanning application you are using. Patch code detection is an advanced feature and should only be used if you are already familiar with the technology.

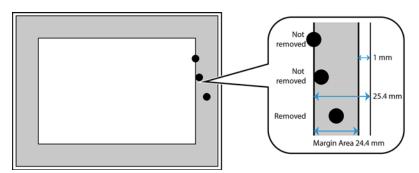
Enhancement Panel

	Image	Document	Enhancements	Settings	Information
Fill margin ho	les				
Background setti	ngs				
Processing			None		
Sensitivity					
Fill Color			White	0	
Perform edge cle	anup				
		Left 0	C) To	p 0 0	
White	0				Millimeters
		Bottom 0	C Rig	nt 0 0	
Despeckle					
N	oise numbe	r 0 0	Noise ra	dius 1	C Pixels

Fill Margin Holes

Select this option if you are scanning pages with punched holes in the margins. This option will fill these holes with the detected background color in the final scan. The scanner will detect and fill the holes under the following conditions:

- When using this option ensure the correct document size has been selected. **Fill margin holes** will not work correctly if the document scanned is a different size than what is expected.
- The size of the hole can be between approximately 5 mm and 7 mm
- The maximum width of the margin is 25.4 mm from the edge of the paper
- The size of the margin is 24.4 mm
- The position of the hole cannot be flush to the edge of the margin area and it cannot overlap the edge of the margin area



Background Settings

Background settings	
Processing	✓ None
Sensitivity	Smooth background
Fill Color	Remove background

Processing: Smooth Background

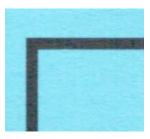
Background settings		
Processing	Smooth background	٥
Sensitivity	0	0
Mode	✓ Automatic Reduce Moiré	1

Sensitivity

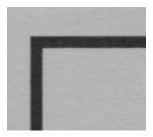
Set the sensitivity level for background smoothing. Move the slider left or right to adjust the sensitivity level.

Mode

• **Automatic** — this option automatically detects the background color of the scanned item, eliminates minor variations, and makes it a solid color in the image. For example, when scanning a blue page the color will be represented in the final scan with varying RGB values representing blue. These varying RGB values occur due to imperfections in the paper being scanned. With Smooth background turned on, the pixels representing the page color are changed to an average value of the colors detected.



Example Color scan



Example Gray scan



Example Color scan with Smooth background



Example Gray scan with Smooth background

• **Reduce Moiré** — select **Reduce Moiré** to use Moiré filtering instead of automatic background smoothing. Moiré patterns are wavy or rippled lines that may appear in the scanned images of newspapers and magazines, and sometimes scanned images of photos, line drawings, and color scans of textured paper.





Example Image with moiré patterns

Example Image with moiré patterns removed

Processing: Remove Background



Automatically detect and remove the background color of the scanned item.





Color scan with Remove background

Color scan

Sensitivity

Set the sensitivity level for background removal. Move the slider left or right to adjust the sensitivity level.

Fill Color

After the background has been detected it can be set to White or Automatic. When Automatic is selected, it will attempt to set the background to the correct color to match the rest of the document.

Perform Edge Cleanup



Select this option to remove any thin lines from around the edges of the final scan. You can specify a fill size between approximately 0 to 108mm for the left and right edges and 178mm for the top and bottom edges. Select White or Black from the drop down list to specify the color used to fill the margins.

Despeckle

Noise number 0 0 Noise radius 1 0 Pixels

This option removes speckles from the background. Speckles are small spots on an image that the scanner interpreted as a valid part of the document. The **Despeckle** option identifies these spots and removes them. This option is only available when scanning in black and white.

Noise Radius — this is the size of the area that is evaluated for stray dots.

Noise Number — this is the maximum number of dots within the radius that should be considered a speckle. If this number of dots are in the circle, the dots will not be considered a speckle and remain in the image. If there are less than this number of dots in the circle, the dots are considered a speckle and removed from the image.

For example, if the radius is 3 and the number is 5, then the document is evaluated in sections of 3x3 pixels and if there are more than 5 stray dots within a 3x3 area, they are not considered a speckle.

Calibration

The scanner needs to be calibrated as part of your monthly maintenance of the scanner. You will need the calibration page provided with the scanner. Full instructions are in the maintenance section of the scanner guide. This option is available in the interface only if the connected scanner supports this feature.

Imprinter Panel

Use the imprinter tab to set the options for digitally printing data on the images as they are created.

	Image	Document	Settings	imp	rinter	Information	
Digital imprinter Content							
🗹 Print all							
Custom							
Counter		00				Date/Time Date & Time	0
Custom font		No	ne		٢		
Advanced							
Font attributes		Normal		٢			
Orientation		Normal		•			
Print position		Middle		٢			
X Offset				0 0	Millir	meters	
Y Offset				0 0	Millir	meters	
ample 062920	15 164430	001					
002320	10 104400	-001				More	

• **Digital Imprinter** — select this option to enable the features in the Imprinter tab for you to configure the text strings you want to have digitally printed on the transferred images.

- **Print All** select this option to have the Custom text appear in all images. When this option is not selected, the Custom text appears in the first image only.
- **Custom** input the text you want to appear in the scanned images.
- **Counter** select the minimum number of digits to be used in the counting number.

Content			
🗹 Print all			
Custom			
Counter	001	Number(1)	e & Time ᅌ 🔽
Custom font	None	Number(12) Number(123)	
		Number(1234)	
		Number(12345) Number(123456)	
		Number(1234567)	
		Number(12345678)	
		Number(123456789)	
		Number(1234567890)	

• **Date/Time** — select whether you want to have the date, time or both printed on the page. Clicking the arrow allows you to set the separator type for each option.

Content					
🗹 Print all					
Custom					
Counter	001		Date/Time ✓ None Date		
Custom font	None	\$	Time		
			Date & 1	ime	
Content					
🗹 Print all					
Custom					
Counter	001		Date/Time Date & Tin	ne 🕥 Date Time	Separator
Custom font	None	\$		Time	✓ None
					/
					-
					Space
Content					
🗹 Print all					
Custom					
Counter	001		Date/Time Date & Tir		•
Custom font	None	•		Time	Separator
					✓ None
					: Space

• **Custom Font** — set a font that has a fixed width for each character.

Content		
🗹 Print all		
Custom		
Counter	001	Date/Time Date & Time ᅌ 🔽
Custom font	✓ None Fixed width	
	TIXOU WIGHT	

• Font Attributes — select whether text should be underlined, double sized or bold.

Advanced				
Font attributes	✓ Normal			
Orientation	Underline Double			
Print position	Bold			
X Offset		0 0	Millimeters	
Y Offset		0 0	Millimeters	

• **Orientation** — select in which direction you want the text to appear in the image.

Advanced		
Font attributes	Normal	
Orientation	✓ Normal	
Print position	Rotated Vertical	
X Offset	Reverse 90 Degrees	Millimeters
Y Offset	270 Degrees	Millimeters

• **Print position** — select a position for the text to appear in the image. Selecting Custom enables the X and Y offset fields.

Advanced		
Font attributes	Normal	0
Orientation	Normal	
Print position	Тор	
X Offset	✓ Middle Bottom	Millimeters
Y Offset	Custom	Millimeters

Clicking the **More** button opens a window with additional options.

	Font attributes					
	Size	<u> </u>				
Digital Content	Density	o				
🔽 Prin	Transparency		0.0.0	0		
Custo						
Count				ок	Cancel	0 .
Custom	font	None		٥		
Advanced						
Font att	ributes	Normal	\$			
Orientat	ion	Normal	٥			
Print po	sition	Middle	٥			
X Offset			0 0	Millimeters		
Y Offset			0 0	Millimeters		
Sample	06292015 164430-	001				
				C	More	
Deste	ore defaults	0	ĸ	Cancel	Preview w	lindow

- Size changes the size of the text as it will appear in the scanned image.
- **Density** changes the density of the text as it will appear in the scanned image.
- **Transparency** changes the transparency of the text as it will appear in the scanned image.

Appendix A: Copy Regulations

United States

Congress, by statute, has forbidden the reproduction of the following subjects under certain circumstances. Penalties of fine or imprisonment may be imposed on those guilty of making such reproductions.

1. Obligations or Securities of the United States Government, such as:

Certificates of Indebtedness	National Bank Currency	Coupons from Bonds
Federal Reserve Bank Notes	Silver Certificates	Gold Certificates
United States Bonds	Treasury Notes	Federal Reserve Notes
Fractional Notes	Certificates of Deposit	Paper Money

Bonds and Obligations of certain agencies of the government, such as FHA, etc.

Bonds. (U.S. Savings Bonds may be photographed only for publicity purposes in connection with the campaign for the sale of such bonds.)

Internal Revenue Stamps. (If it is necessary to reproduce a legal document on which there is a canceled revenue stamp, this may be done provided the reproduction of the document is performed for lawful purposes.)

Postage Stamps, canceled or uncanceled. (For philatelic purposes, Postage Stamps may be photographed, provided the reproduction is in black and white and is less than 75% or more than 150% of the linear dimensions of the original.)

Postal Money Orders.

Bills, Checks, or Drafts of money drawn by or upon authorized officers of the United States.

Stamps and other representatives of value, of whatever denomination, which have been or may be issued under any Act of Congress.

- 2. Adjusted Compensation Certificates for Veterans of the World Wars.
- 3. Obligations or Securities of any Foreign Government, Bank, or Corporation.
- 4. Copyrighted material, unless permission of the copyright owner has been obtained or the reproduction falls within the "fair use" or library reproduction rights provisions of the copyright law. Further information of these provisions may be obtained from the Copyright Office, Library of Congress, Washington, D.C. 20559. Ask for Circular R21.
- 5. Certificates of Citizenship or Naturalization. (Foreign Naturalization Certificates may be photographed.)
- 6. Passports. (Foreign Passports may be photographed.)
- 7. Immigration Papers.

- 8. Draft Registration Cards.
- 9. Selective Service Induction Papers that bear any of the following Registrant's information:

Earnings o	r Income	Dependency Status	Court Record
Previous m	ilitary service	Physical or mental condition	

Exception: U. S. Army and Navy discharge certificates may be photographed.

- 10. Badges, Identification Cards, Passes, or Insignia carried by military personnel, or by members of the various Federal Departments, such as FBI, Treasury, etc. (unless photograph is ordered by the head of such department or bureau.)
- 11. Reproducing the following is also prohibited in certain states: Automobile Licenses Drivers' Licenses Automobile Certificates of Title.

The above list is not all inclusive, and no liability is assumed for its completeness or accuracy. In case of doubt, consult your attorney.

Canada

Parliament, by statute, has forbidden the reproduction of the following subjects under certain circumstances. Penalties of fines or imprisonment may be imposed on those guilty of making such copies.

- 1. Current bank notes or current paper money.
- 2. Obligations or securities of a government or bank.
- 3. Exchequer bill paper or revenue paper.
- 4. The public seal of Canada or of a province, or the seal of a public body or authority in Canada, or of a court of law.
- 5. Proclamations, orders, regulations or appointments, or notices thereof (with intent to falsely cause same to purport to have been printed by the Queen's Printer for Canada, or the equivalent printer for a province).
- 6. Marks, brands, seals, wrappers or designs used by or on behalf of the Government of Canada or of a province, the government of a state other than Canada or a department, board, Commission or agency established by the Government of Canada or of a province or of a government of a state other than Canada.
- 7. Impressed or adhesive stamps used for the purpose of revenue by the Government of Canada or of a province or by the government of a state other than Canada.
- 8. Documents, registers or records kept by public officials charged with the duty of making or issuing certified copies thereof, where the reproduction falsely purports to be a certified copy thereof.
- 9. Copyrighted material or trademarks of any manner or kind without the consent of the copyright or trademark owner.

The above list is provided for your convenience and assistance, but it is not all inclusive, and no liability is assumed for its completeness or accuracy. In case of doubt, consult your solicitor.

Other Countries

Copying certain documents may be illegal in your country. Penalties of fine or imprisonment may be imposed on those found guilty of making such reproductions.

- Currency notes
- Bank notes and cheques
- Bank and government bonds and securities
- Passports and identification cards
- Copyright material or trademarks without the consent of the owner
- Postage stamps and other negotiable instruments

Note: this list is not inclusive and no liability is assumed for either its completeness or accuracy. In case of doubt, contact your legal counsel.

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