Kodak ScanMate i900 Series Scanners



Scanning Setup Guide for TWAIN Applications

Scanning Setup Guide for the TWAIN Datasource

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The *Kodak ScanMate* i900 Series Scanners provide the ability to process scanned images to improve their quality by using image processing features.

Image processing refers to features of the scanner that allow you to automatically adjust each image that may improve the resulting images (i.e., correcting any skew in the fed document, cutting the edges of the image off to remove unneeded borders or cleaning up extraneous "noise" on the image).

The information in this guide provides procedures for using the TWAIN Datasource as well as descriptions of the features. The same features should be available on the user interface of the scanning application you are using.

Scan Validation Tool dialog box

The Scan Validation Tool (SVT) is a diagnostic application provided by Kodak. The SVT user interface allows access to all the features of the scanner and is a good way to verify that the scanner is working properly. The Scan Validation Tool allows you to verify scanner functionality using both the TWAIN Datasource and the ISIS Driver.

🏉 Scan Validation Tool - TWAIM		
🔽 Save Images To Files	Display Every: 1	
Total:	Last File:	

Toolbar buttons

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Setup — displays the user interface for the selected driver.

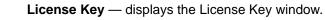
Destination — allows you to select a directory to store scanned images and their file names. This option is only available when Save Images to Files is selected.

Start Scanning — scans the documents in the input tray.

Scan One Page — scans only one page.



Stop Scanning — ends the scan session.





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No Image Display mode — closes the Image Viewer window (no images will be displayed).





One Image Display mode — displays one image at a time.

Two Image Display mode — displays two images at a time.



Four Image Display mode — displays four images at a time.

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Eight Image Display mode — displays eight images at a time.

Save Images to Files — when selected, will save the images to the specified directory.

Display Every — enter the sampling rate of the images you want to display while scanning. For example, to see every image, enter a value of 1. To see every 10th image, enter a value of 10.

Total — displays the total number of images scanned during the current Scan Validation Tool session.

• To access the TWAIN Datasource (or ISIS Driver), double-click the **Setup** icon on the Scan Validation Tool dialog box to access the main Scanner window.

Last File — displays the full path and file name for the last stored image.

Using the TWAIN
DatasourceThe Kodak ScanMate i900 Series Scanners can provide a wide variety
of electronic images. This can be done by using the TWAIN Datasource
Kodak provides in concert with your scanning application. The TWAIN
Datasource is the part of the capture system which links the scanner to
your scanning application.

When using the TWAIN Datasource, the main Scanner window will display a list of Setting Shortcuts. Each Setting Shortcut is a group of specific image and device settings. The supplied Setting Shortcuts represent some common electronic image outputs used for a wide variety of input documents. If none of the Setting Shortcuts meet your scanning needs, you can create a customized Setting Shortcut. For example, you could create a Setting Shortcut called "Invoices" and whenever you want to scan invoices, you simply select that Setting Shortcut.

If you are using the ISIS Driver, see the *Scanning Setup Guide* for the *ISIS Driver* for more information.

How do I begin?

The goal is to make scanning as simple as possible. This is accomplished by selecting a *Setting Shortcut* from the main Scanner window and then selecting **OK/Scan**.

The scanner comes with some Setting Shortcuts already defined. In most cases, you will find that these shortcuts are all you will need. If you find that you need different settings, then you should create your own Setting Shortcut. Your shortcut will be added to the list of Setting Shortcuts and available for all future scanning.

Most of the options you will want are available on these two windows:

- Image Settings: clicking the Settings button on the main Scanner window, displays the Image Settings window. From this window you can set your image processing parameters by using the General, Size, Adjustments and Enhancements tab. You can also access the Device settings by clicking the **Device** button or the Advanced settings by clicking the **Advanced Image Setup** icon.
- **Device** Settings: the Device button is located on the Image Settings window. When you select **Device**, you will have access to the General and Multifeed tabs. From the Device Settings window, you can also access Diagnostics.

The procedures that follow describe how to configure a customized Setting Shortcut. Complete descriptions of the features and options on the main Scanner window and tabs are found in the section entitled, "The main Scanner window".

NOTE: Setting Shortcuts can sometimes be overridden by your scanning application. If this happens, the Shortcut you call will appear in the main Scanner window in italics with the word *<Changed>* next to it. This is normal behavior for an application that does not use Setting Shortcuts and downloads its preferred individual settings to the scanner first and then provides access to the TWAIN Datasource.

When you click **OK** to begin scanning, you will be asked if you want to save the changed settings. When using an application that does not use Setting Shortcut, select **No** to this prompt and continue scanning.

From the main Scanner window:

KODAK 1920 Scanner			-02
1.0. A			60
Setting Shortcuts:	Hilliage 🖶 Save As 🍵	Delete 📼 Rename 🔘 Rese	6 *
Default Default Black and White Perfect Page Document Color Perfect Page Document Color Photograph			*
Input document is: Two Sided	Place documents fac	e up	
Settings >	Preview	0 <u>K</u> (C	Cancel

- 1. Select a predefined Setting Shortcut from the Setting Shortcuts list. Choose a Setting Shortcut that describes as closely as possible the image output you desire.
- 2. Determine if you want to capture an electronic image of the front of your document, back of your document or both sides of your document and make the selection from the *Input document is* drop-down list. Options are:
 - Two Sided captures both sides of the document
 - One Sided-Front captures the front side only
 - One Sided-Back captures the back side only
- 3. Place one or two representative documents in the input tray of the scanner.
- If you want to see what your selected image processing options will look like and make on-screen changes, click **Preview** to review and adjust the image.
 - NOTE: This only needs to be done if you want to make interactive adjustments to your selected image processing options.

If you are making interactive adjustments, it is recommended that you preview the image using the highest preview quality.

- 5. If you are satisfied with your selected image processing options, reload your document if necessary and click **OK/Scan**.
 - If the images are acceptable, the image processing settings are fine and you do not need to click the **Settings** button to alter any values in the General, Size, Adjustments or Enhancements tabs.
 - If the images are not acceptable, you can either select a different predefined Setting Shortcut that more closely describes your desired output or you can continue to work with the Setting Shortcut you have selected by reviewing each setting on the General, Size, Adjustments and Enhancements tabs and make the appropriate changes. When you make any changes, repeat Steps 3 - 5 to until you get the desired results.
- If you made any changes to a predefined default Setting Shortcut, click Save As on the main Scanner window. The Save As dialog box will be displayed.

Save As	×
Shortcut <u>n</u> ame:	
My Black and White Documen	
<u>G</u> raphic	
	Browse
Sa <u>v</u> e	Cancel

 Enter a new Setting Shortcut name that is meaningful to you and click Save. You have now created and saved a custom Setting Shortcut which can be used for your scanning operations.

Selecting Device settings

- 1. Select the Setting Shortcut that you just created.
- 2. Select **Settings** to access the Image Settings window.
- 3. Select **Device**. The Device Settings window will be displayed.

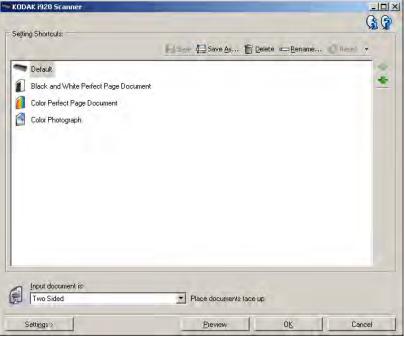
🌤 KODAK i920 Scanner		
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General Multifeed Paper source: Document Feeder Power Saver 1 240 1,	Sheet <u>C</u> ounter Starting value:	0
Document Eeeder Timeout ✓ 0n 0 120	Document <u>M</u> anagement Maximum Length: [14.00 <u></u> in	
		Diagnostics
<hr/>	, 0 <u>K</u>	Cancel

- 4. Before making any adjustments, click through the tabs on the Device Settings window to get familiar with features that are available. See the section entitled, "The Device Settings window" for information about these features.
- 5. Determine which features you want to use when scanning and select the appropriate tab.
- 6. On each tab, select the appropriate options or action you want the scanner to perform.
- 7. When finished:
 - Click Home to return to the main Scanner window and click Save to save your selections to your custom Setting Shortcut, or
 - Click **Image** to return to the Image Settings window if you need to make additional changes.

The main Scanner window

The main Scanner window is the home window of the scanner's user interface. You can scan by simply selecting a Setting Shortcut and then selecting OK/Scan.

KODAK 1920 Scanner



Setting Shortcuts — provides a listing of the Setting Shortcuts currently set up. The supplied shortcuts are:

- Default the scanner's default settings
- Black and White Perfect Page Document
- Color Perfect Page Document
- Color Photograph

NOTES:

- The provided Setting Shortcuts can be deleted. It is highly recommended that you not delete the default profiles.
- If you have made changes to a Setting Shortcut and have not saved your changes, the Setting Shortcut will be appended with the text <changed>, and the name will be displayed in italics (e.g., *Default<changed>).

Input document is — allows you to select which sides of the document has information that you want an electronic image of.

- Two Sided: scans the front and back of the document.
- One Sided Front: scans only the front side of the document.
- One Sided Back: scans only the back side of the document.

NOTE: Be sure to place your documents face down in the input tray.

Save — saves any changes made to the current Setting Shortcut. This is only available for shortcuts you have created.

Save As — displays the Save As window allowing you to save your current settings as a new Setting Shortcut.

Delete — deletes the selected Setting Shortcut; you will be prompted for confirmation. This is only available for shortcuts you have created.

Rename — displays the Rename window allowing you to rename a Setting Shortcut. This is only available for shortcuts you have created.

Reset — allows you to undo any changes that have been made to the selected Setting Shortcut. This is only available for shortcuts you have modified (e.g., are in italics and appended with *<changed>*).

Move Up arrow — moves the selected Setting Shortcut up one position in the Setting Shortcut list. When you move a Setting Shortcut, it will stay in that position until you move it again.

Move Down arrow — moves the selected Setting Shortcut down one position in the Setting Shortcut list. When you move a Setting Shortcut, it will stay in that position until you move it again.

Settings — displays the Image Settings window which allows you to make changes to the selected Setting Shortcut. From this window you can also access the Device settings and Diagnostics windows.

Preview — initiates a scan and then displays the Image Settings window with the scanned image placed in the preview area. The image displayed is a sample based on your current shortcut settings.

OK/Scan — when selected, you will be prompted to save any unsaved changes.

NOTE: If this button is **OK**, any unsaved changes will remain in effect for the current scan session.

Cancel — closes the main Scanner window without saving any changes.

Information Icons



About: displays the scanners' version and copyright information.



Help: displays help information for the window currently being displayed.

The Image Settings window

From this window you can define image processing options by using the available tabs. The values used in Image Settings are saved in the selected Setting Shortcut. The Image Settings window includes the following tabs: General, Size, Adjustments and Enhancements.

KODAK	(i920 Scanner		_ 🗆 ×
Sid <u>e</u> : General			
	Scan as: Color (24-bit) Document type: Text with Graphics		
	Media type: Plain Paper		
Comp	Resolution: 200 <u> </u> dpi pression Type:		
IPG IPG	JPEG Quality: Good		
		1	
<	Home Device >	Preview OK	Cancel

Side — allows you to select which side and image to configure (e.g., Front, Back, Both: Color (24-bit), etc.). All image settings will be applied to the selected image.

NOTE: The *Side* option is only available when advanced settings have been selected on the Advanced tab.



Advanced Image Setup: displays the Advanced tab.

Toolbar buttons

Ð	Zoom In : enlarges the image that is currently being displayed in the preview area.
Q	Zoom Out : reduces the image that is currently being displayed in the preview area.
•	Rotate Outline: rotates the outline 90 degrees. NOTE: This is only available if the rotated outline fits in the scanner's maximum width.
	Center Outline : adjusts the X origin of the outline such that the outline is centered within the scanner's maximum width.
* -	 Preview Quality: selects the quality of the scanned image. Normal: displays acceptable image quality at a lower resolution. High: displays the most accurate representation of the actual image. The image that is displayed in the preview area is a good representation of what the final image will look like.
•	 Automatic Preview Updates: allows you to select how the displayed image is updated. On: the displayed image will automatically show the effects of your settings changes, in most cases, without having to rescan the document. If rescan is necessary, you will be prompted to reinsert the document. Off: the displayed image will not update until another Preview scan is performed.
-	Units : selects the unit of measurement for the scanner; this includes the preview area and any size-related options. The Units options are: Inches, Centimeters and Pixels .

Preview area

The preview area displays a sample image that is based on your current shortcut settings. An image will be displayed in this area after a preview scan has been performed.

- Outline: If you choose Document: Manually Select or Image: Part of Document on the Size tab, the preview area will also show the current outline selections. If the outline does not align with your preview image, you may use the mouse to adjust the size and location of the outline. As the mouse cursor moves around the outline, the cursor will change indicating that you can adjust the outline by pressing and holding the left mouse button.
 - **Move**: place the mouse cursor within the outline to adjust the location of the outline.
 - **Corner**: place the mouse cursor over one of the corner graphics to adjust two sides at the same time.
 - **Side**: place the mouse cursor over one of the side graphics to adjust that side.
 - **Rotate**: place the mouse cursor over the rotate graphic to adjust the angle of the outline.

Home — returns you to the main Scanner window.

Device — displays the Device Settings window.

Preview — initiates a scan and places the image in the preview area. The image displayed is a sample based on your current shortcut settings.

OK/Scan — when selected, you will be prompted to save any unsaved changes.

NOTE: If this button is **OK**, any unsaved changes will remain in effect for the current scan session.

Cancel — closes the main Scanner window without saving any changes.

The General tab contains the commonly used image options. In most cases, you will not have to change options on other tabs.

KODAK	i920 Scanner		
Sid <u>e</u> :	Balli	<u> </u>	9
General	Size Adjustments Enhancements		Ĵ.,
0	Scan as:		-
	Color (24-bit)		
	Document type:		
5	Text with Graphics		
	Media type:		
L	Plain Paper		
13	Resolution:		
	200 💌 dpi		
Comp	ression		
Ro	Type:	<u> </u>	
6) JPEG		
Del	Quality:	- 5-	
5			
		<u>a</u>	
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-			
<}	Home Device >	Breview 0K Cancel	

Scan as — allows you to select the electronic image format.

- Color (24-bit): produces a color version of your document.
- Grayscale (8-bit): produces a grayscale version of your document.
- Black and white (1-bit): produces a black and white version of your document.

NOTE: The *Scan as* option is only available when **Images per Side: One** is selected on the Advanced tab.

Document type — allows you to select the type of content on your documents.

- **Text with Graphics**: the documents contain a mix of text, business graphics (bar graphs, pie charts, etc.) and line art.
- Text: the documents contain mostly text.
- Photographs: the documents contain mostly photographs.

Media type — allows you to select the type of paper you are scanning based on the texture/weight. The options are: **Plain Paper, Thin Paper, Glossy Paper, Card Stock** and **Magazine**.

Resolution or dots per inch (dpi) — allows you to select the desired resolution, which is a determinant of a better quality image. Higher resolutions may also increase scanning time and image size. The resolutions are: 100, 150, 200, 240, 250, 300, 400, 600 and 1200 dpi.

Compression — allows you to reduce your electronic image size.

- **Type**: the scanner will produce a color version of your document.
 - (none): no compression, which may produce a large image size.
 - **Group-4**: uses a CCITT standard to compress a black and white image, often used in conjunction with TIFF files.
 - **JPEG**: uses JPEG techniques to compress a color/grayscale image.

NOTE: The Group-4 and JPEG options are only available for *Scan as*: **Black and White (1-bit)**.

- Quality if you choose JPEG compression, select one of the quality options:
 - **Draft**: maximum compression which produces the smallest image size.
 - **Good**: a fair amount of compression but still produces acceptable image quality.
 - Better: some compression which produces decent image quality.
 - **Best**: minimal compression which produces very good image quality.
 - **Superior**: the least amount of compression which produces the largest image size.

The Size tab allows you to define values relating to the image output (i.e., cropping values, paper size, etc.).

NODAK i920 Scanner	
Sid <u>e</u> : Both	🔍 🔍 🖹 🗉 🌲 • 🖬 • 📘 • 🔒 🧏 🚱
General Size Adjustments Enhancements	
Document:	A
Automatically Detect and Straighten	
Image:	
Entire Document	
Origin (x , y): 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 -	
Size (W x H): 8.50 x 11.00 x in	
Angle: 0.0000 😴 degrees	
Predefined sizes:	
US Letter - 8.5 x 11 inches	
<u>B</u> order:	
(none)	
Post scan rotation:	
Automatic	
< Home Device > Prev	view O <u>K</u> Cancel

Document — allows you to select how the scanner will detect your document as it is being fed through the scanner.

- Automatically Detect and Straighten: the scanner will automatically find each document (regardless of size) and will straighten any document that may have been fed crooked.
- Automatically Detect: the scanner will automatically find each document (regardless of size). If a document is fed crooked, it will not be straightened.
- **Manually Select:** the scanner will return an image based on the area you specify with the Outline options. It is suggested that you only use this option for scan jobs that contain same-size documents.

Image — allows you to select which part of the document you want to use for creating your electronic image.

- Entire Document: if you select Document: Automatically Detect and Straighten, Document: Automatically Detect or Document: Manually Select, the entire document will be returned.
- Part of Document: if you select Document: Automatically Detect and Straighten, returns the portion of the document which you specify with the *Outline* options.

Outline — allows you to select the location and size to use for creating your electronic image. The preview area will show the outline.

- Origin (x, y):
 - if you select Document: Automatically Detect and Straighten,
 (x) is the distance from the left edge of the document and (y) is the distance from the top edge of the document.
 - if you select **Document: Manually Select**, (x) is the distance from the left edge of the scanner's paper path and (y) is the distance from the first portion of the document detected by the scanner.
- Size (w, h): if you select Document: Automatically Detect and Straighten or Document: Manually Select, this is the width and height of the electronic image.

NOTE: The electronic image may be shorter than you specified if the outline goes beyond the end of the scanned document.

- Angle: allows you to select the angle of the outline.
- **Predefined sizes**: provides a list of commonly used paper sizes. Selecting an item in this list will automatically set the size of the outline to that paper's size. **Custom** will be displayed when the outline size does not match any sizes in the list.

NOTE: You can also adjust the outline displayed in the preview area using your mouse.

Border — allows you to select what action to perform on the edges of your electronic image.

- (none)
- Add: includes up to approximately 0.1 inches of border around all of the image edges.
 - NOTE: This option is not available when both **Document:** Automatically Detect and Straighten and Image: Part of Document are selected.
- **Remove**: produces an image that contains just the document by eliminating any residual border. Residual border can be used by variations in a document edge; for example, when a document is not a perfect rectangle and/or was fed crooked.

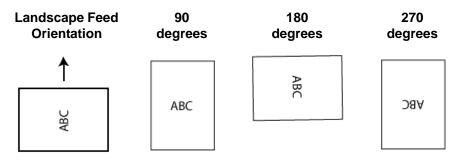
NOTES:

- While this option will not remove large amounts of residual border, there is a possibility that a small amount of the document will be lost.
- This option is only available when both **Document:** Automatically Detect and Straighten and Image: Entire Document are selected.

Post-scan rotation options — allows you to select any rotation to be applied to the electronic image after it has been scanned.

- (none)
- Automatic the scanner will analyze each document to determine how it was fed and will rotate the image to the proper orientation.
- 90, 180, 270 degrees the amount of rotation that will be performed.

The following example shows how these settings effect a document that was fed landscape:



Adjustments tab: black and white

The options available on the Adjustments tab depend on the *Scan* as selection on the General tab. The following options are based on a *Scan* as selection of **Black and White (1-bit)**.

KODAK i920 Scant	ner	-		_	
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General Size Ad	djustments Enhancements			113 14 15	
Conversion quality:			1		
Best (iThresholding)	<u> </u>		2		
<u>C</u> ontrast:	-50	50 	1 3 1 1		
Trasbald	1				
Eilters			3		
Noise:			<u></u>		
Lone Pixel	-		6		
İmage:					
(none)	-				
Invert Colors		A	12 13		
< <u>H</u> ome	Device >	Pre	eview	0 <u>K</u>	Cancel

Conversion quality — these settings effect how the scanner analyzes a grayscale version of the document which is used to produce the black and white electronic image.

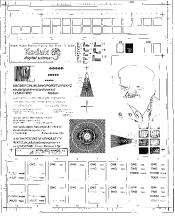
- Best (iThresholding): the scanner analyzes each document to produce the highest quality image. This option allows scanning of mixed documents with varying quality (i.e., faint text, shaded backgrounds, color backgrounds) and when scanning with consistent document sets.
- Normal (ATP): allows you to determine the optimal settings to produce the desired image quality. This option works best when scanning with consistent document sets. You may also want to use this option if you have difficult documents such that you cannot find a Contrast setting for *Best* that produces the desired quality.
- **Draft (Fixed)**: allows you to select the grayscale threshold used to determine if a pixel is black or white. This option works best for high contrast documents.

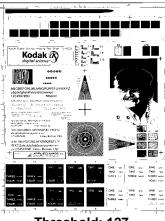
Contrast — allows you to make an image sharper or softer. Decreasing this setting will make the image softer and reduce noise in the image. Increasing this setting will make the image clearer and make light information more visible. The options range from **-50** to **50**. The default is 0.

NOTE: This is not available for *Conversion quality: Best* and *Conversion quality: Normal.*

Threshold — aids in controlling the level at which a pixel is considered black or white. Decreasing this setting will make the image appear lighter, and can be used to subdue background noise. Increasing this setting will make the image appear darker, and can be used to help pick up light information. The options range from 0 to 255. The default is 90.

NOTE: This is not available for *Conversion quality: Best* and *Conversion quality: Normal.*





Threshold: 50

Threshold: 127

Filters

- Noise
 - (none)
 - **Lone Pixel:** reduces random noise by converting a single black pixel to white when it is completely surrounded by white pixels or by converting a single white pixel to black when it is completely surrounded by black pixels.
 - **Majority Rule**: sets each pixel based on its surrounding pixels. The pixel will become white if the majority of the surrounding pixels are white and visa versa.
- Image
 - (none)
 - Halftone Removal: enhances dot matrix text and images with halftone screens (e.g., newspaper photographs).

Invert Colors — allows you to select how the black pixels will be stored in the image. By default the black pixels are stored as black and the white pixels are stored as white. Turn this option on if you want the black pixels stored as white and the white pixels stored as black.

Adjustments tab: color or grayscale

The options available on the Adjustments tab depend on the *Scan as* selection on the General tab. The following options are based on a *Scan as* selection of **Color** or **Grayscale**.

🛰 KODAK i920 Scanner			
Sid <u>e</u> : Both	👻 😵 🔍	२ 📑 🗄 🗮	- 🛛 - 🖓 🚱
General Size Adjustments Enhancements			
Brightness and Contrast			<u>_</u>
Manual			
-50 50			
Brightness:			
<u>C</u> ontrast:			
Colo <u>r</u> Balance			
Automatic - advanced			
Aggressiveness:			
Sharpe <u>n</u>			
High			
			 ►
<hr/> Home Device >			Cancel

Brightness and Contrast

- (none)
- **Manual**: allows you to set specific values that will be used for all images.
 - **Brightness** changes the amount of white in the color or grayscale image. The values range from **-50** to **50**. The default is 0.
 - **Contrast** makes the image sharper or softer. The values range from **-50** to **50**. The default is 0.

Color Balance (not available for grayscale images).

- (none)
- Automatic: adjusts the white background of each document to pure white. This option compensates for the variations that occur between different weights and brands of paper. This is not recommended for use with photographs.
- Automatic advanced: for advanced users that want to further adjust the Automatic option.
 - **Aggressiveness** allows you to adjust the extent of the variation. Increasing this value can help with documents that have yellowed due to age. The values range from -2 to 2.
- **Manual**: allows you to set specific values that will be used for all images.
 - **Red** changes the amount of red in the color image. The values range from **-50** to **50**. The default is 0.
 - **Green** changes the amount of green in the color image. The values range from **-50** to **50**. The default is 0.
 - **Blue** changes the amount of blue in the color image. The values range from **-50** to **50**. The default is 0.

Sharpen — increases the contrast of edges within the image. Options are: **Normal, High** and **Exaggerated**.

Enhancements tab

The options on the Enhancements tab depend on the *Scan as* selection on the General tab.

NOTE: Most options have additional settings. Those settings will only be visible when the option is turned on. If all settings do not fit on the screen, a scroll bar will appear giving you access to all settings.

🛰 KODAK i920 Scanner		
Sid <u>e</u> : Both	🔍 🔍 🕞 🔝 🎽 🖬	0.0
General Size Adjustments Enhancements		
Blank Image Detection		<u> </u>
Based on Document Content		
Content amount: 0 📑 %		
_Image Edge Fill		
Color: White		
✓ All sides match		
Color Dropout		
Color: Blue		
	<u>a-</u>	
	<u>∓</u>	_
		<u> </u>
< Home Device > Pre	view O <u>K</u>	Cancel

Blank Image Detection — allows you to configure the scanner to not give blank images to the scanning application.

- (none): all images are given to the scanning application.
- **Based on Document Content**: images will be considered blank based on the document content within the image.
 - **Content amount**: allows you to select the maximum amount of content that the scanner will consider to be blank. Any image that has more content than this value will be considered non-blank and will be given to the scanning application. The values range from 0 to 100 percent.
 - Content amount will be filled in with the amount of content in the preview image. If you have a representative blank document (e.g. blank sheet with letter head), this can be used to assist with determining the setting for Content amount (i.e. perform a preview scan, click this button, and adjust Content amount as appropriate).

NOTE: This option is only available when there is a preview image.

- **Based on Size**: images will be considered blank based on the size of the image that would be given to the scanning application (i.e., after all other settings have been applied).
 - Final image size: allows you to select the minimum image size that the scanner will consider to be non-blank. Any image that is less than this value will be considered blank and will not be given to the scanning application. The values range from 1 to 1000 KB (1 KB equals 1024 bytes).

Image Edge Fill — fills the edges of the final electronic image by covering the area with the specified color.

- Color: allows you to select the color to fill the edges with.
 - (none)
 - White
 - Black
- All side match: when turned on, an equal amount will be filled in on all sides.
- Top: determines how much of the top edge will be filled in.
- Left/Right: the option on the left will determine how much of the left edge will be filled in and the option on the right will determine how much of the right edge will be filled in.
- Bottom: determines how much of the bottom edge will be filled in.

NOTES:

- The Top, Left/Right and Bottom options are not available when All sides match is turned on.
- When using **Image Edge Fill**, be careful not to enter a value too large as it could fill in image data that you want to keep.
- This option is not applied to the preview image.

Color Dropout — used to eliminate a form's background so that only the entered data is included in the electronic image (i.e., remove the form's lines and boxes). For black and white images, these settings effect the grayscale version of the document which the scanner analyzes to produce that electronic image.

- Color: select the desired dropout color.
 - (none)
 - Red
 - Green
 - Blue

The Color Dropout options are only available when the *Scan* as selection is **Black and White** or **Grayscale**.

Advanced Image Setup

Advanced tab

The Advanced Image Setup icon is located at the top of the Image Settings window next to the *Side* drop-down box.

🛰 KODAK i920 Scanner				
Sid <u>e</u> :	Both			- 😵
General Size	Adjustments	Enhancements		

When you select the Advanced Image Setup icon, the Advanced tab will be displayed.

KODA	K i920 Scanner		
Advand	ced		GP
a	Input document is: Two Sided	Place documents face up	
124	Different settings per side		
	Combine front and back images: (none)	<u>.</u>	
Imag	ges per Sid <u>e</u>		
One	(-	
		<u>p</u>	one

Input document is — select Two Sided, One sided - Front or One sided - Back depending on what side(s) you want to configure.

Different settings per side — by default, the settings you select apply to both sides of the image. Turn this option on if you want to select different image processing settings for each side of the document you are scanning. For example, if you want the front side to be color and the rear side to be black and white, first make sure that you have selected the **Two Sided** option from the *Input Document is* drop-down list, then select the *Different Settings per side* checkbox.

Once you have done this, the *Side* drop-down list on the Image Settings window will no longer be grayed out and you can select different settings for each side. Now that you have enabled **Different settings per side**, your initial selections will apply only to the front side of the document you are scanning. After you have made your selections for the front side, use the Side drop-down list to select the back side and then make the settings you want to apply to the back.

anced Input document is: Two Sided Place documents face up Different settings per side Logbine front and back images (none) ages per Side utiple mages to Configure Different (1-bit) Color (24-bit) DTE: Scanner creates the images in the order listed above	-1
Input document is: Two Sided Place documents face up Different settings per side Dugblime front and breck images Inone ages per Side Utiple Total Color (24-bit) Color (24-bit)	G
Different settings per side Dombine tront and back images inone utiple mages to Configure Definition Black and White (1-bit) Color (24-bit)	
Lugbine tront and back images inone) ages per Side utiple T Black and White (1-bit) Color (24-bit)	
I (none)	
ages per Side uitiple mages to Configure Black and White (1-bit) Color (24-bit)	
ultiple mages to Configure Black and White (1-bit) Color (24-bit)	
mages to Configure	
ITE: Scanner creates the images in the order listed above	
	Done

Combine front and back images - typically, for a document, one image is created for the front side and another image is created for the back side. Turn this option on if you want one image that contains both the front side and back side of the document. The selections are:



back side within the image. the front side within the image.



Front on Left: front side will be to the left Front on Right: back side will be to the of the back side within the image.

left the front side within the image.

NOTE: This option is only available when *Input document is* is set to Two Sided, Different settings per side is turned off and Images per side is set to **One**; and the document is scanned from the document feeder.

Images per side — indicates how many images the scanner will create for a side, based on your imaging selections.

- **One**: indicates you want the scanner to create one image.
- **Multiple**: indicates you want the scanner to create more than one image.

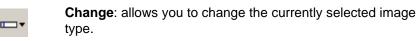
Images to Configure — indicates which electronic images you need to configure.

- NOTE: This is only available if you select anything other than **One** from the *Images per side* option. For procedures on how to configure advanced options, see these sections:
 - Creating multiple images for each side of a document, Example 1.
 - Creating different settings for each side of a document, Example 2.

When available, use the up and down arrows to select the order the images will be delivered by the scanner to the scanning application.

Toolbar buttons

Add: adds an image type to the bottom of the configuration list.



Delete: removes the selected image type.

Done — returns you to the Image Settings window.

Creating multiple images for each side of a document, Example 1

In this example, let's assume you want to configure a scan session that has documents with information on both sides and you want the scanner to produce both a color and a black and white image for each side of each document.

- 1. Select a **Setting Shortcut** from the main Scanner window that closely describes your desired output.
- 2. Select **Settings** to display the Image Settings window.
- 3. Select the **Advanced Image Setup** icon on the Image Settings window to display the Advanced tab.
- 4. Select Input document is: Two Sided.
- 5. Select Images per side: Multiple.
 - NOTE: The *Images to Configure* area will now be displayed on the Advanced tab and will contain a color image item and a black and white image item.

Input document is:		
Two Sided	Place documents face up	
Different settings per side		
Euglime front and back images		
(none)	1	
ges per Sid <u>e</u> Itiple		
hages to <u>C</u> onfigure		
Black and White (1-bit)		
Color (24-bit)	\$	
FE: Scanner creates the images in the or	der listed above	

- 6. If you want a grayscale image instead of a color image, when enough color is detected in the document:
 - make sure Color (24-bit) is selected
 - select Change to display a list of options
 - select Grayscale

- 7. By default the scanner will produce the first image listed (black and white in this example) and deliver it to the scanning application, then it will produce and deliver the second image listed (color/grayscale in this example). If you want the color/grayscale image to be produced and delivered first:
 - make sure Color (24-bit) is selected
 - select **Move up** to place the color/grayscale image first in the list.



8. Select Done to return to the Image Settings window.

NOTE: You will notice that the *Side* option now has two entries: **Both: Color (24-bit)** and **Both: Black and White (1-bit)**.

Sid <u>e</u> :	Both: Color (24-bit)	8
General Size	Both: Color (24-bit) Both: Black and White (1-bit)	

9. Select Sides: Both: Color (24-bit).

NOTE: Make any other adjustments to the color image settings on the rest of the tabs on the Image Settings window.

- 10. Select Sides: Both: Black and White (1-bit).
 - NOTE: Make any other adjustments to the black and white image settings on the rest of the tabs on the Image Settings window.
- 11. When finished, select **Home** to return to the main Scanner window and then select **Save** to save your selections to the shortcut.

Creating different settings for each side of a document, Example 2

In this example, let's assume you want to configure a two-sided document stream of business documents that have color on the front of the document but the rear side is fine in black and white.

- 1. If you are not already on the Advanced tab:
 - Select a **Setting Shortcut** from the main Scanner window that closely describes your desired output.
 - Select Settings to display the Image Settings window.
 - Select the **Advanced Image Setup** icon on the Image Settings window to display the Advanced tab.
- 2. Select Input document is: Two Sided.
- 3. Turn on the Different settings per side option.
- 4. Select Images per side: One.

anc	ed	
7	Input document is:	
	Two Sided	Place documents face up
	Different settings per side	
	Combine front and back images:	
	(Dona)	*

5. Select **Done** to return to the Image Settings window.

NOTE: You will notice that the *Side* option now has two entries: **Front** and **Back**.

Sid <u>e</u> :	Front	8
	Front	
General Size	Back	

- 6. Select Sides: Front.
- 7. Select Color (24-bit) for the Scan as option on the General tab.

NOTE: Make any other adjustments to the front side settings on the rest of the tabs on the Image Settings window.

- 8. Select Sides: Back.
- 9. Select **Black and White (1-bit)** for the *Scan as* option on the General tab.

NOTE: Make any other adjustments to the back side settings on the rest of the tabs on the Image Settings window.

10. When finished, select **Home** to return to the main Scanner window and then select **Save** to save your selections to the shortcut.

Creating a new Setting Shortcut

1. From the main Scanner window, select a Setting Shortcut from the list. It is recommended that you select a shortcut that most closely describes the desired image output.

KODAK 1920 Scanner		
Setting Shortcuts:		G (?
Jejung Shohous.	El Save 🚍 Save As 👘 Delete 🚥 Rename 🕥 Reset	÷
Default Black and White Perfect Page Document Color Perfect Page Document Color Photograph		*
n Input document is:		
Two Sided	Place documents face up	
Settings >	Preview DK Car	

- 2. Determine if you want to capture an electronic image of the front of your document, back of your document or both sides of your document and make the selection from the *Input document is* field.
- 3. Select **Settings** on the main Scanner window. The General tab of the Image Settings window will be displayed.

KODAK	i920 Scanner				
Sid <u>e</u> :	Bolh	- 8	9.9	E	- 66
General	Size Adjustments Enhancements	1	[11]11 ²]1	13 14 15 16	171181
n	Scan <u>a</u> s:				-
	Color (24-bit)	-			
	Document type:				
0	Text with Graphics	-	μ- -		
	Media type:	_	-		
L	Plain Paper	1	in-		
	Resolution:				
	200 • dpi				
Lomp	ression Type:				
bar	JPEG	•			
-	Quality:		<u></u>		
Bar	Good	-	<u>ā-</u>		
			-		
			112		
			- 5-		
			1 1		and a
			1		<u>.</u>
(×)	Home Device >	Pre	view	0 <u>K</u>	Cancel

- 4. Select the appropriate options on the General tab.
 - NOTE: If necessary, review each setting on the other tabs and make any changes.
- 5. Place one representative document in the input tray of the scanner.
- 6. Select **Preview** to review the resulting image.

NOTES:

- If the images are not acceptable, you can either select a different predefined Setting Shortcut or make additional changes on the rest of the tabs on the Image Settings window.
- If you are making interactive adjustments, it is recommended that you preview the image using the highest preview quality.
- 7. Define the desired Device settings by selecting **Device** on the Image Settings window to display the Device Settings window.
- 8. Review each tab and select the appropriate options or actions you want the scanner to perform.
- 9. Select Home to return to the main Scanner window.
- 10. Select **Save As** to display the Save As window.
- 11. Enter a new shortcut name that is meaningful to you and select **Save**.

Changing Image settings

- 1. Select a Setting Shortcut from the main Scanner window that closely describes your desired output.
- 2. Select an Input document is option from the main Scanner window.
- 3. Select Settings to display the Image Settings window.

KODAK i920 Scanner	and the second se		
Side: Balli			66
General Size Adjustments Enhancements		11314151611	7.19.
Scan as:			-
Color (24-bit)	12		
Document type:	ю- 		
Text with Graphics	<u>μ</u> -		
Media type:			
Plain Paper			
Besolution:			
Type: JPEG			
- Quality:			
Good			
	1000 1000 1000 1000 1000 1000 1000 100		
< <u>H</u> ome De <u>v</u> ice>	Preview	O <u>K</u> C	Cancel

- 4. Before making any adjustments, browse through the tabs on the Image Settings window to get familiar with options that are available.
- 5. For each option you want to use, make the appropriate selections you want the scanner to perform when scanning.
- 6. If you want to see the result of your options:
 - Place a representative document in the input tray of the scanner.
 - Select **Preview** to perform a preview scan.

NOTES:

- If the images are not acceptable, you can either select a different Setting Shortcut or continue working with the current Setting Shortcut by reviewing each tab within the Image Settings window again. Repeat this step as needed.
- If you are making interactive adjustments, it is recommended that you preview the image using the highest preview quality.
- 7. When finished, select **Home** to return to the main Scanner window and then select **Save** to save your selections to the shortcut.

The Device Settings window

From this window you can set all scanner-specific options, as well as diagnostics, by using the available tabs. The values used in Device Settings are saved in the selected *Setting Shortcut*. The Device Setting window includes the General and Multifeed tabs.

🛰 KODAK i920 Scanner	
General Multifeed	G G
Paper source: Document Feeder Power Saver 1 240	Sheet <u>C</u> ounter Starting value:
Only save to this Setting Shortcut Document Evender Timeout On 0 120 ····· 0 seconds Action when timeout occurs: Stop Scanning Stop Scanning	Document Management Maximum Length: 14.00
Only save to this Setting Shortcut	Diagnostics
< Home Image > Preview	0 O <u>K</u> Cancel

Home — returns you to the main Scanner window.

Image — displays the Image Settings window.

Preview — initiates a scan and then displays the Image Settings window with the scanned image placed in the preview area. The image displayed is a sample based on your current shortcut settings.

OK/Scan — when selected, you will be prompted to save any unsaved changes.

NOTE: If this button is **OK**, any unsaved changes will remain in effect for the current scan session.

Cancel — closes the main Scanner window without saving any changes.

Information Icons

About: displays the scanners' version and copyright information.



Help: displays help information for the window currently being displayed.

The General tab allows you to set scanner-specific options and provides access to scanner diagnostics.

🌤 KODAK i920 Scanner		
General Multifeed		G
Paper source: Document Feeder Power Saver 1 240	Sheet <u>C</u> ounter Starting value:	0
Document Eeeder Timeout On 0 120 Con Action when timeout occurs: Stop Scanning Only save to this Setting Shortcut	Document <u>M</u> anagement Maximum Length: 14.00	
		Diagnostics
<hr/>	v <u>ok</u>	Cancel

Paper Source

• **Document Feeder**: the scanner will only scan documents from the input tray.

Power Saver — allows you to set the amount of time, in minutes, the scanner has to be inactive before going into power saver mode.

NOTE: The Power Saver setting is shared with all Setting Shortcuts. Any changes will affect other shortcuts unless you check the **Only save to this Setting Shortcut** option.

Document Feeder

• **Timeout**: allows you to select the amount of time, in seconds, the scanner will wait once the last document enters the feeder before the timeout occurs.

Action when timeout occurs: indicates the action that will be taken when the document feeder timeout has been reached.

- **Stop Scanning:** scanning will stop and control will return to the scanning application (i.e. ends the job).
- NOTE: The *Document Feeder* settings are shared with all Setting Shortcuts. Any changes will affect other shortcuts unless you check the **Only save to this Setting Shortcut** option.

Sheet Counter — enter the number to be assigned to the next physical sheet of paper entering the scanner. This is incremented sequentially by the scanner and is returned in the image header.

Document Management

Maximum Length — select a value that indicates the length of the longest document in your document set.

NOTES:

- Changing this value will affect the maximums for the following settings: *Image Size Outline; Multifeed Length Detection*.
- Not all combinations of settings for *Scan as* and *Resolution* are supported at the larger lengths. To allow for greater flexibility with applications, the scanner will not generate an error until it sees a document whose length is not supported.
- The scanner's throughput may be reduced for large lengths.

Diagnostics — displays the Diagnostics tab.

Multifeed detection aids in document processing by detecting documents that may go through the feeder overlapped. Multifeeds can happen due to stapled documents, adhesives on documents, or electrostatically charged documents.

🏎 KODAK i920 Scanner			
l			G 😨
General Multifeed			
Length Detection			
☑ On			
2.05 📑 in			
Action When Detected			
Stop Scanning	•		
Play sound on PC			
ding.wav			
	Browse		
		1	
< Home Image >	Preview	0 <u>K</u>	Cancel

Length Detection — allows you to select the maximum length of the documents in your job set. If the scanner detects a document longer than this value, it will determine that a multifeed has occurred. You can turn this option **off** or set a length.

Action When Detected — select what action you want the scanner to take when a multifeed is detected.

- **Stop Scanning**: scanning will stop and control will return to the scanning application (i.e., ends the job). Verify that the paper path has been cleared and restart the scan session from the scanning application.
- Stop Scanning generate image(s): scanning will stop and control will return to the scanning application (i.e., ends the job). Image(s) of the multifed document will be generated. Verify that the paper path has been cleared and restart the scan session from the scanning application.

- Stop Scanning leave paper in path: scanning will stop immediately (i.e., making no attempt to clear the paper path) and control will return to the scanning application (i.e., ends the job). Clear any documents from the paper path prior to restarting the scan session from the scanning application.
- Continue Scanning: the scanner will continue to scan.

Play sound on PC — turn this option on if you want the PC to make a sound when a multifeed is detected. You can click the **Browse** button to select the desired .wav file.

NOTE: The sound on the PC may not occur at the exact time the multifeed is detected by the scanner.

Changing Device settings

- 1. Select a Setting Shortcut from the main Scanner window that closely describes your desired output.
- 2. Select Settings to display the Image Settings window.
- 3. Select **Device** to display the Device Settings window.

🀜 KODAK i920 Scanner	
	G 😭
General Multifeed	
Paper source: Document Feeder Power Saver 1 240	Sheet <u>C</u> ounter Starting value: 0
Only save to this Setting Shortcut	
Document <u>F</u> eeder	Document Management
Timeout	Maximum Length:
🔽 On	14.00 🚎 in
0 120	
Action when timeout occurs: Stop Scanning	
Only save to this Setting Shortcut	
	Diagnostics
< Home Image > Preview	0 Cancel

- 4. Before making any adjustments, browse through the tabs on the Device Settings window to get familiar with options that are available.
- 5. For each option you want to use, make the appropriate selections you want the scanner to perform when scanning.
- 6. When finished, select **Home** to return to the main Scanner window and then select **Save** to save your selections to the shortcut.

The Diagnostics window

From this window you can access the diagnostic functions of the scanner. The Diagnostics window includes the following tabs: General, Debug and Logs. The Diagnostics window can be accessed via the Diagnostics button which is located on the General tab of the Device Settings window.

Diagnostics - General tab

The General tab allows you to perform a scanner test and displays the scanner time.

ODAK i920 Scanner	
	GG
neral Debug Logs	
Iests	
Scanner	
✓ Count only	
Scanner Time	
Actual (GMT):	
1/20/2011 7/03/42 PM	
Corresponding local time:	
1/20/2011 2:03:42 PM	
	Done

Tests

- Scanner similar to, but more extensive than, a power-on self test. Clicking this button will put the device through a series of checks to determine that all the scanner hardware is working.
- **Count only** counts the number of documents entering the scanner without sending the images to a scanning application. This test is performed during any scan session in which this option is turned on.

NOTE: This test is automatically turned off when the scanning application disconnects from the scanner.

Scanner Time

- Actual (GMT): displays the Greenwich Mean Time.
- **Corresponding local time**: displays the scanner's Greenwich Mean Time in the PC's local time zone.
- Refresh icon ²: redisplays the current scanner time.

Diagnostics - Debug tab

The Debug tab allows you to turn on options that allow support personnel to diagnose any issues you may encounter with using your scanner. It is suggested that you only make changes on this tab when instructed by Kodak support personnel.

NOTES:

- All of the options on this tab apply to all Setting Shortcuts, not just the currently selected Setting Shortcut.
- In order for any changes on this tab to take effect, you must restart your application.

The KODAK i920 Scanner	
	G 🖗
General Debug Logs	
Any changes to these settings requires the driver to be restarted. It is Logging Off	ecommend that you do this by restarting your application.
Flag: 0	
Images ✓ Received from scanner ✓ Sent to application	
Model: Flags:	
	Done

Logging — saves the communications between the scanner and a scanning application. The options are: **Off**, **On** or **Custom**.

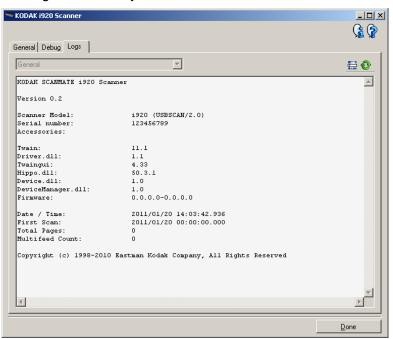
Images

- Received From Scanner saves the images received at the PC from the scanner.
- Sent To Application saves the images received at the scanning application from the scanner.

Simulation — allows you to use the TWAIN Driver/Datasource without using the actual scanner.

- Model: allows you to select the specific model to simulate.
- **Flags**: if supported by your TWAIN Driver/Datasource, this will contain a list of accessories your simulate scanner has installed.

The Logs tab allows you to view scanner information.



Logs: General — displays the scanners's version information, serial number, attached/installed accessories, meters, etc.

Toolbar buttons



Save As — saves all the logs for viewing by Kodak support personnel. When selected, the Save As window will be displayed:

- **Description**: enter a brief description of problem/reason for saving the logs.
- Folder: the location to save the logs.
- **Browse**: displays the operating system's File Open window so you can find the folder that you want to use.
- **Include debug images**: includes any generated debug images with the logs. This is turned on by default and should only be turned off when recommended by your support personnel.
- Save: saves the logs into a file with the extension .eklog.



Refresh: refreshes the currently displayed log.

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