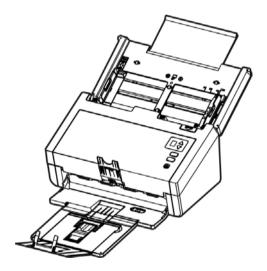


Sheet-fed Scanner

User's Manual



Regulatory model: FL-1313B/FL-1406B

manual-en-250-0877-E-AD240-v300

Avision Inc.

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Federal Communications Commission (FCC) compliance information statement Part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE

European Union Regulatory Notice

Products bearing the CE marking comply with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC
- Restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU

CE compliance of this product is valid if powered with the correct CE-marked AC adapter provide by Avision.

This product satisfies the Class B limits of EN55022, EN55024, safety requirements of EN 60950 and ROHS requirements of EN50581.

*This machine is certified as Class 1 LED product.

Disposal of Waste Equipment by Users in Private Union



This symbol on the product or on its packaging indicates that the product can not be disposed of with your other household waste. Instead it should be sent to appropriate facilities for recovery and recycling in an effort to protect human health and the environment. Fore more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



As an ENERGY STAR[®] Partner, Avision Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

System Requirements

CPU:	Intel [®] Core™ 2 Duo or higher
Memory:	32 bit: 2 GB 64 bit: 4 GB
Optical Drive:	DVD-ROM Drive
USB Port:	USB port 2.0 (compatible with USB 1.1)
Operating	Microsoft Windows XP(SP3), Windows Vista, Windows 7, Windows 8 (32 bits/64 bits), Windows 10 (32 bits/64 bits)

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Product Safety Guide

Please clearly read all these instructions, and follow all instructions and warnings before installing and using the device.

The following indications are used in this document to obviate any chance of accident or damage to you and/or the device.

A WARNING	Indicates potentially hazardous situations, which if instructions are not followed, could result in death or serious injury.
riangle caution	Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

- Use only the AC power adapter that came with your device. Using any other AC power adapter could cause fire, electrical shock, or injury.
- Use only the AC power cord and USB cable that came with your device and avoid abrasions, cuts, fraying, crimping, and kinking. Using any other AC power cord and USB cable could cause fire, electrical shock, or injury.
- Do not place objects on top of the AC power cord, and do not allow the AC power adapter or the AC power cord to be stepped on or run over.
- Place the device and its AC power adapter near an electrical outlet where the AC power adapter can easily be unplugged.
- If you use an extension cord with the device, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating.
- Place the device close enough to the computer so that the interface cable can easily reach between the device and the computer.

- Do not place or store the device or its AC power adapter:
 - Outdoors
 - Near excessive dirt or dust, water, or heat sources
 - In locations subject to shocks, vibrations, high temperature or humidity, direct sunlight, strong light sources, or rapid changes in temperature or humidity
- Do not use the device with wet hands.
- Never disassemble, modify, or attempt to repair the AC power adapter, device, or device option by yourself, except as specifically explained in the device's documentation. This could cause fire, electrical shock, or injury.
- Do not insert objects into any opening, as they may touch dangerous voltage points or short-out components. Beware of electrical shock hazards.
- Unplug the device and the AC power adapter, and refer servicing to qualified service personnel under the following conditions:
 - The AC power adapter or plug is damaged.
 - Liquid has entered the device or the AC power adapter.
 - Object has entered the device or the AC power adapter.
 - The device or the AC power adapter has been dropped, or the case has been damaged.
 - The device or the AC power adapter does not operate normally (i.e. appearance of smoke, strange smell, odd noise, etc.), or exhibits a distinct change in performance
- Unplug the device and the AC power adapter before cleaning.

A CAUTION:

- Do not locate the device on rackety or aslope tables. Do not locate the device on unstable surface. The device may fall down and this may result in injury.
- Do not place heavy objects on the unit. It may cause unbalance and the device may fall down. This may result in injury.
- Store the AC Power cord/USB cable bundled out of the reach of children to avoid the risk of injury.
- Keep plastic bags bundled out of the reach of children or throw them away to avoid the danger of suffocation.
- If you are not going to use the device for a long period, unplug the AC power adapter from the electrical outlet.

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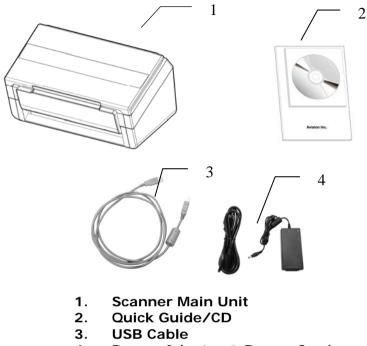
1. Introduction

Congratulations on your purchase of the color sheet-fed image scanner. With this scanner, you can scan documents from the auto document feeder increase your productivity.

Before you install and operate the new scanner, please take a few minutes to read through this manual. It provides proper instructions for you to unpack, install, operate and maintain the scanner.

1.1 Package Items

The following figure indicates the package contents. Please check all the items against your checklist. If you do not receive all the items, please contact your authorized local dealer immediately.

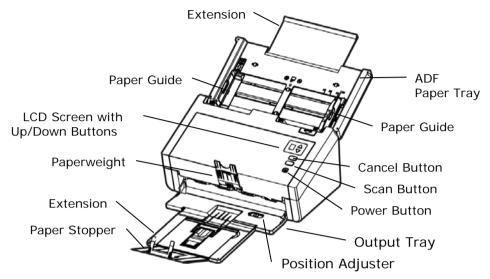


4. Power Adapter & Power Cord

Note:

- 1. Only use the AC adapter DA-48M24 by APD included in the machine. Using other AC adapters may damage the machine and void the warranty.
- 2. Please unpack the packing carefully, and check the contents against the checklist. If any items are missing or damaged, please contact your dealer immediately.
- 3. To access more service supports, visit www.avision.com to register your Avision's product.

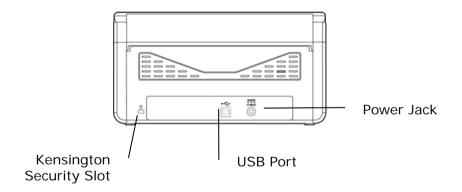
1.2 Front View



Part Name	Function
Extension	Can be pulled out and adjusted to the size of the document being scanned.
ADF Paper Tray	Load the document onto this part when scanning document.
Paper Guides	Adjusts to the width of the documents to prevent skewing of the scanned pages.
Operation Panel	LCD screen: Shows a number indicating a scan-to destination via the Up/Down buttons. The Power Button: Press to turn on the power. The Scan Button: Press to start a scan. The Cancel Button: Press to cancel a scanning job during operation.

Output Tray	Open to collect the document after scanned.
Position Adjuster	Slide the adjuster inward to make the Output Tray in a flat position.
Extension	Pull it out. Documents are ejected from the ADF to the tray.
Paperweight	Used to hold down a stack of output paper.
Paper Stopper	Adjust to the length of the documents to prevent them from falling apart.

1.3 Rear View



Part Name	Function
USB Port	Connect to your computer.
Power Jack	Connect the AC adapter to the scanner.
Kensington Security Slot	Attach to a lock to secure the scanner.

2. Scanner Installation

2.1 Precautions

- Keep the scanner out of direct sunlight. Direct exposure to the sun or excessive heat may cause damage to the unit.
- Do not install the scanner in a humid or dusty place.
- Be sure to use the proper AC power source.
- Place the scanner securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical or paper-feeding problems.
- Retain the scanner box and packing materials for shipping purposes.

2.2 Installing the Scanner Driver and Connecting the Cables

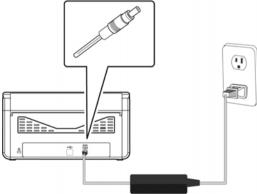
NOTE:

- **1).** To ensure your computer can identify the USB scanner, please install scanner driver first before connecting the scanner to your computer.
- 2). The scanner driver contains TWAIN, ISIS and WIA driver. After the installation of scanner driver is completed, this scanner allows you to scan via a TWAIN, ISIS, or a WIA interface. Start your TWAIN-compliant image editing software application to select a TWAIN or WIA user interface or your ISIS software to select an ISIS user interface. You may also launch Microsoft's Scanner and Camera Wizard to scan via a WIA user interface.

2.2.1 Connecting to Power

Before connecting, make sure the power switch is off.

Plug the small end of the power adaptor into the power jack of your scanner. Insert the other end to an appropriate power outlet.



2.2.2 Turning on the Power

Press the **Power** Switch button on the front panel, the Power LED will flash. When it is finished and ready to scan, the LED indicator will stop flashing and become steadily on. To turn off the scanner, press the Power Switch button for about 3 seconds, the Power LED will be off.

2.2.3 Installing the Scanner Driver

- **1.** Place the supplied CD-ROM onto your CD-ROM drive.
- The software installation graphic appears. If not, run "setup.exe".

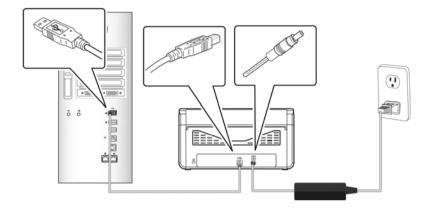
Avision of your office To ensure Button Manager V2 work property, pla	www.avision.com
Install Scanner Driver	
Install Button Manager	
Install Adobe Reader	
Install AVScan X	
View Manuals	

Contents on the installation graphic:

- **Install Scanner Driver:** To communicate with your scanner, you need to install the scanner driver.
- Install Button Manager V2: To use the buttons on the scanner, you need to install Button Manager V2. To ensure Button Manager V2 works properly, please FIRST install scanner driver before installing Button Manager V2.
- Install Adobe Reader: To view the user's manuals for the scanner and Button Manager V2, you need to use Adobe Reader to open and view the manuals in pdf file format. If you already have Adobe Reader installed on your computer, you may disregard this item.
- **Install AVScan X:** To scan and organize your multipage document(s), you can install the software application to manage them easily and effectively.
- View Manual: Click "View Manual" to view or print the detailed user manual for the scanner and Button Manager V2 respectively.
- 3. Click Install Scanner Driver to install the scanner driver and then click Install Button Manager V2 to install the Button Manager V2 unto your computer.

2.2.4 Connecting to Computer

1. Connect the **square end** of the USB cable to the USB port of your scanner. Connect the **rectangle end** to the USB port at the rear side of your computer.



- The computer should detect a new USB device and prompt a "New Hardware Found" message.
- **3.** By following the on-screen instructions, click the **Next** button to continue. When the certification screen appears, click **Continue Anyway** to complete the installation.
- 4. When the Finish dialog is prompted, click the Finish button.

3. Completing Your First Scan

3.1 Loading Your Paper

3.1.1 Notice on Using the ADF

Before using the ADF, please make sure that your paper meets the following specifications:

- Document(s) can range in size from 50 x 50 mm (2 x 2 in.) to 216 x 356 mm (8.5 x 14 in.).
- Document(s) can range in weight from 27~413 g/m² (7~ 110 lb.)
- ID cards up to 1.25 mm (0.05 in.) thick
- Document(s) should be square or rectangular and in good condition (not fragile or torn).
- Document(s) should be free of curl, wrinkle, wet ink, or punch holes.
- Document(s) should be free of staples, paper clips, paper sticky notes.

3.1.2 Loading Your Document in the ADF Paper Tray

Fanning Your Document

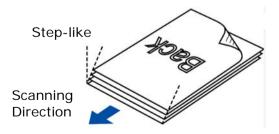
Note:

To avoid occasional multi-feeds or paper jams, please fan your documents and align the top edges before feeding them into the scanner.

1. Hold both ends of the documents and fan them a few times.

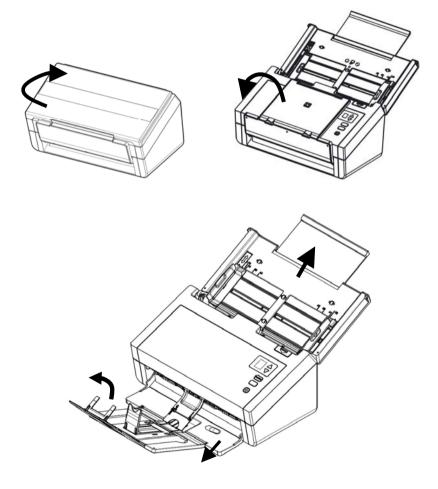


- 2. Rotate the documents by 90 degrees and fan them in the same manner.
- 3. Align the edges of the documents in a step-like pattern (see picture below).

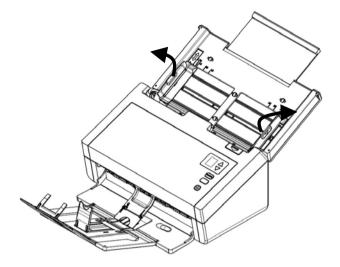


Document Feeding

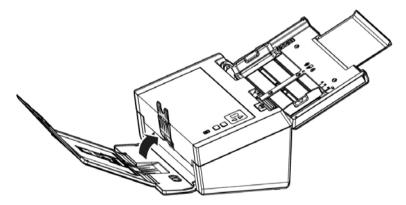
- 1. Unfold the document feeder and its extension.
- 2. Unfold the output tray and raise the paper stopper.



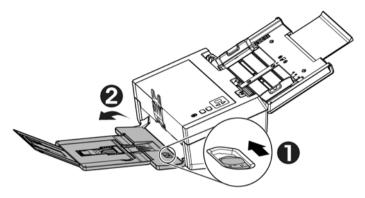
3. Raise the paper guide to hold your multi-page document.



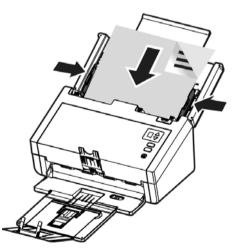
4. Raise the paperweight.



5. Slide the position adjustor inward **1** to make the output tray in a flat position **2**.



6. Load a stack of document face down with the top of the pages pointing into the feeder.



7. Verify that the paper guides are aligned with the edges of the stack.

Note: The [Paper Width] switch:

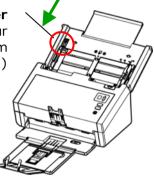
If your document width is 216 mm (8.5 in.):

If your document width is 216 mm (8.5 in.), slide the [**Paper Width**] switch **DOWN** to fix your paper guide to conveniently load the letter-size document.

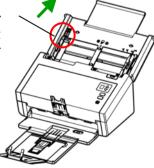
If your document width is larger than 216 mm (8.5 in.):

If your document width is larger than 216 mm (8.5 in.) such as invoices with punch holes, slide the [**Paper Width**] switch **UP** and move the paper guide to the right end to load your documents.

Slide **DOWN** the [**Paper Width**] switch to set your paper width to 216 mm (8.5 in.)



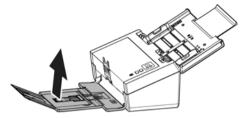
Slide **UP** the [**Paper Width**] switch to set your paper width larger than 216 mm (8.5 in.)



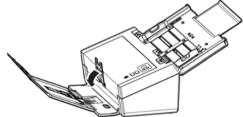
3.1.3 Scanning Cards

To scan cards, it is recommended to press down the paper weight and then raise the output tray to keep the cards from falling apart.

1. Lift the output tray up to make the output tray in an angled position.



2. Press down the paper weight.



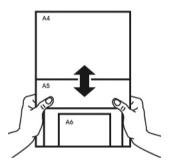
 Load your cards horizontally into the paper tray. Align the paper guides and make sure the edges of cards slightly touch the paper guides on both side as illustrated.



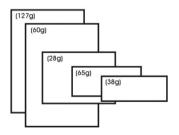
3.1.4 Scanning a Stack of Document with Various sizes and Weights

When scanning a batch of documents with different sizes and weights, be sure to follow these guidelines to avoid a skewed image or a paper jam:

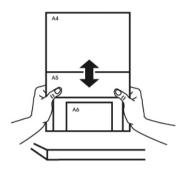
1. Align the documents **TOP EDGE** first in the sequence of paper size from large to small.



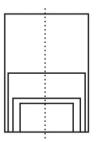
2. If two pages are of the same size yet with different weight, arrange these pages in the sequence of paper weight from heavyweight to lightweight.



3. Align the edges of the documents by tapping the bottom of the stack against the table top.



4. Center these pages in the document feeder and make sure that the edges of page of the largest size slightly touch the Paper Guide.



3.2 Verifying Your Scanner Installation

To verify if your scanner installation is correct, Avision provides you a useful test program called Avision Capture Tool. With this tool, you can perform simple scans and view the captured images. In addition, it helps you complete your scan at a rated speed.

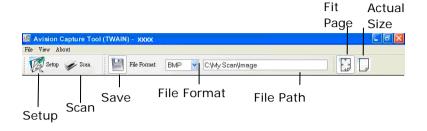
The following procedure describes how to verify your scanner installation. If the installation is not correct, please review the preceding section to check if the cable connection and scanner driver have been successfully installed.

Before you begin, be sure the scanner is on.

1. Select Start>Programs>Avision xxx Scanner>Avision Capture Tool. The Select Scanner Model dialog box will be displayed.

Select Scanner Mode	1 🛛 🔀
Driver Type: TWAIN	
Scanner Model:	
Avision xxxx	
	OK Cancel

 Select your driver type and scanner model and click OK. The following Avision Capture Tool dialog box will be displayed.



- Choose your desired file format from the File Format drop down list box. (Default is JPEG, other choice includes TIFF, MTIFF, PDF, MPDF, GIF, and BMP.) The supported file formats vary depending on your scanner model.
- Type your desired folder name and file name in the File Path box. (Default is C:\Documents and Settings\User Name\My Documents\My Scan\Image.)

Note: If you do not wish to save the scanned image, deselect the Save button since default is Save Enable. In this case, the thumbnail view will be disabled. And therefore, after viewing all the scanned images, only the last one will remain on the screen.

5. Click the Setup button (^{Setup}) or choose Setup from the File menu to prompt the Scanner Properties dialog box.

	Scanner Properties	1		
Image Selection Box	Front Auto Color Detection Front Color Front Color Front BLW Front BLW	Binarization: Sensitivity: Binghames: Contrast: Resolution (doi): Invent:	Uynamic Threshold 20 0 0 200 200 Black on White	
	Scan Source Polites Color Matching	Custom		X Cancel

- 6. From the Image Selection Box, choose your desired image type for your scanned image. (Default is Front B&W) If you have a duplex scanner, choose Front and Rear to scan both sides of your document.
- 7. Click OK to quit the Scanner Properties dialog box. (To learn more details about the Scanner Properties dialog box, please see the subsequent chapter, *Using the Scanner Properties Dialog Box*.)
- 8. Place your document face down on the document glass or face up in the auto document feeder.
- In the Scan Validation dialog box, click the Scan button
 or choose Scan from the File menu.
- 10. The document will be scanned and displayed in the Scan Validation screen. After the scanned images have been displayed, your scanner installation verification is completed.

Capture Tool (TWAIN) - X	000	
File Very About	File Formet JPEG V CVMv Scarlinge	
	PER Finance Perce as a particle of chimmery structure. In four days our work is done. Thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and sub-thirty-once cakes, chargened with whikey, bask on windowslis and the sub-thirty of th	
		Display View
^I Thumb	onail View	

- 11. You can view the scanned image in Fit Page (E) or Actual Size (100%) button () from the Viewing toolbars at the right side.
- 12. Click the Close box or Quit from the File menu to exit the Scan Validation Tool.

3.3 A Glance of the Scanner Properties Dialog Box

1	Scanner Properties	1			
2		Binalization: Sensitivity: Bisphiness: Contrast: Resolution (doi): Invent:	Dename: Threshold 20 0 20 0 20 0 20 0 20 20 20 20 200 Black on White		3 4 5 6
8	Scan Source Protes Color Matching Defaults	Auto Document Feeder Custom Document	× ×	DK Cancel	7

1. Tab Options	Choice: Image, Compression, Color Dropout, Paper, Multi-Feed Detection, Preview, Options, Settings, Information.
2. Image Selection Box	Choose your image type and the side of document you wish to scan. Options vary based on type of scanner.
3. Brightness	Adjust the brightness level from -100 to +100.
4. Contrast	Adjust the contrast level from -100 to +100.
5. Resolution	Determine the quality of the scanned image. The industry standard is 200 dpi.
6. Invert	Reverse the color of your scanned image.
7. Scan Source	Choice: Auto Document Feeder, Flatbed, Flatbed (Book), Automatic (varies due to different scanner model)
8. Defaults	Reset all values on the tabs to the factory default settings.

4. Using the Scanner Properties Dialog Box

The Scanner Properties dialog box allows you to configure the scanner's settings. It consists of several tabbed windows each of which will be described in this chapter.

Note: In this chapter, all options are available based on a duplex (double-side) scanner. If you have purchased a simplex (single-side) scanner, all options are available for single sided only.

Scanner Properties				
Front Auto Color Detection Front Color Front Gray Front B&W Front B&W	Binarization: Sensitivity: Brightness: Contrast:	Dynamic Threshold	1	
Rear Auto Color Detection Rear Color Rear Gray Rear B&W	Resolution (dpi): Invert:	200 Black on White	v	
Scan Source Profiles Color Matching	Custom	>		
Defaults			OK Can	cel

The Scanner Properties dialog box

Front Auto Color Detection	Binarization:	Dynamic Threshold	~
Front Color	Sensitivity:	20 <	
Front Gray Front B&W	Brightness: Contrast:	0 <	>
Rear Auto Color Detection	Resolution (dpi):	200	v
Rear Color Rear Gray	Invert	Black on White	~
Rear B&W			
Scan Source:	Auto Document Feeder	~	
Profiles	Custom	~	
Color Matching:	Document	~	

4.1 Buttons on the Scanner Properties Dialog Box

The buttons on the Scanner Properties dialog box

Buttons	Description
Defaults	Click the Defaults button, the factory default settings will be shown on each tab.
Cancel	Click the Cancel button to leave the Scanner Properties dialog box.

The following table shows the default settings :

Tab name	Default settings
Image	Image : Front B&W
	Binarization : Dynamic Threshold
	Resolution : 200 dpi
	Invert : Blank on White
	Scan Source : Auto Document Feeder
	Threshold : None
	Brightness : None
	Contrast: None
Compression	None
Color Dropout	None
Paper	Cropping : Automatic
	Deskew : Yes
	Orientation : Portrait
	OverScan: 0.00
	Note: The availability of this option varies due to scanner model.
	Unit : Inch
Multi-Feed Detection	None
Preview	None
Options	Rotation Degrees : None
	Blank Page Removal : None
	Edge Fill: White, 0 mm
	Image Control Option : None
Setting	Enable Energy Saver : Enable, 15 minutes after last scan action
	Show Scanning Progress : Yes
	Show Warning Message : Yes
	Save Settings after Closing : Yes
Imprinter	Digital Imprinter

4.2 Showing or Hiding Tabs

The [**Scanner Properties**] dialog box is displayed in default with three basic tabs - Image, Paper, and Information. To show more tabs, click the [**Scanner Properties**] icon to access more scan settings.

To show more tabs,

- Click the [Scanner Properties] icon () on the upper left corner, and choose [Tab] to show available tab names. The available tabs include Compression, Color Drop out, Preview, Rotation, Separation, Multi-Feed, Options, Settings, and Imprinter. (Note: the options vary based on scanner model.)
- 2. Choose the tab you want to display. The selected tab will be shown with a check mark and then displayed in the [Scanner Properties] dialog box.
- 3. To access the settings, click the selected tab on the top of the [Scanner Properties] dialog box. The page of the selected tab will be displayed.

To hide a tab window,

- 1. Click the [Scanner Properties] icon () on the upper left corner, and choose [Tabs] to show available tab names.
- 2. Choose the tab you want to hide. Then, the selected tab will be hided in the [Scanner Properties] dialog box.

Note: The [Image], [Paper], and [Information] tab can not be hided since they preprogrammed to be displayed by default.

💩 Scanner Properties				X
T-1- Comp	n L' tion s	Dynamic Threshold 0 0 0 0 200 Black on White		>
Scan Source Profiles Color Matching	Custom	× ×		
Defaults			ок	Cancel

4.3 The Image Tab

The Image tab allows you to choose the front side and (or) the rear side of your document, the type of image, and to set several basic scan settings. Note that except for the resolution, you can set individual scan settings for the front side and the rear side. For example, all settings in the Image tab, Compression tab, Color Dropout tab can be set individually for the front and the rear side. However, the settings in the Paper tab, the Option tab, and the Setting tab have to be set the same for the front and rear side.

Scanner Properties				X
Image Paper Setting Information	1			_
Front Auto Color Detection	Binarization:	Dynamic Threshold	*	
Front Color	Sensitivity:	20 <		>
Front Gray Front B&W	Brightness: Contrast:	0 <		>
Rear Auto Color Detection	Resolution (dpi):	200	~	
Rear Color	Invert	Black on White	~	
Rear Gray				
Rear B&W				
Scan Source:	Auto Document Feeder	~		
Profiles	Custom	~		
Color Matching	Document	~		
Defaults			ОК	Cancel

The Image tab dialog box

4.3.1 The Image Selection Box

	Front Auto Color Detection
✓	Front Color
	Front Gray
	Front B&W
	Rear Auto Color Detection
	Rear Auto Color Detection Rear Color
•	

The Image Selection box includes the image type and document side option. If you wish to scan both the front side and the rear side of your color document, you can check both Front Color and Rear Color at the same time. Note the options vary based on type of scanner.

Example 1 : Scanning a two-sided color document, both sides in color

Front Auto Color Detection	P(1) In law loan	Long Fragment West Tex PC Transfor Longer at 1 State + 4848 FEB J
Front Color	 Same if the adaptivation for your basing the front top assesses optimals, which means recentlings amount adaptivat to your 4%. Cost Same Share, Shari Lik. 	Child the Dividious Sing Sin Child Sing Child Sing Child Sing Child Sing Child Child Sing Child Chil
Front Gray	Becoming Backford - Step Datas Bearing out on mit or introduce sources in the interact process is the true theory as writes a constant of hostics part hands the tange the two sources, stress the tange and the interaction of the interaction of the order of the animal theory of the process of all of other datases or otherward which extransis theorems. We proceed on the other datases	And And And And And And And And And
Front B&W	If the strategy of the stra	Ruding up and interfail and a particular data and a particular dat
Rear Auto Color Detection	COMPRESSING YOUR MARD DISK WITH SKIPLEPACE shop by usep	A the Second Balance of Second S
Rear Color	Control of the structure fragment for a characteristic for a structure fo	
Rear Gray	Example of an example of a second secon	
Rear B&W		RELATION NEWSFILM
Side/Image	Front	Deer
Selection		Rear

Example 2 : Scanning a two-sided color document, one in B&W, the other in color

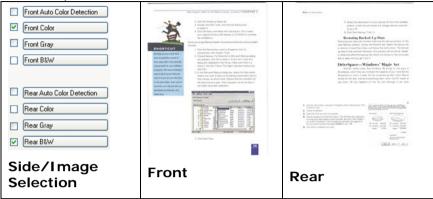


Image Type	Description
Color	Choose Color if you wish to scan a color image for your original in color.
Gray	Choose Gray image if your original contains actual shades of gray.
B&W	Choose B&W if your original contains only text, pencil or ink sketch.

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B&W





Gray

Color

Front/Rear Auto Color Detection:

Click to automatically detect and scan the front or the rear page of your color document in color image mode. If your document is in colors, the scanner will automatically scan the document into a color image. If your document is non-color, you can choose the output to be either B&W or Gray from the Non-Color Selection option. This option is useful when you have a mixture of color and non-color document.

Note: If you choose Front Rear Auto Color Detection, you can not specify the image mode of your rear page and vice versas.

Sensitivity of Auto Color Detection

If your documents contain primarily B&W text and small amount of light or pale colors and you do not wish them to be recognized as color image to save the file size, you can increase the sensitivity value by moving the bar to the right to let these images to be detected as B&W. The value ranges from 1 to 100. The default is 37.

Standard	IEEE 802.11 b/g/n standards compliant					
Wireless LAN	1TIR Mode					
Frequency Range	2.400 ~ 2.4835GHz (subject to local regulations)					
	802.11	n: 20MHz	/40MHz			
Number of Selectable Channels	802.1 1b/g:	USA, Canada (FCC):11 channels (2.412GHz~2.462GHz) Europe (CE): 13 channels (2.412GHz~2.472GHz)				
			(TELEC): Hz~2.4835GH	z)	channels	
Data Rate		n: up to : b: 1, 2, 5	.50Mbps			
\bigcirc	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps					
	11n HT	40 MCS7	: +13 dBm			
Transmit Power(EIRP)	11g OFDM: +15 dBm					
	11b CC	К: +18 d	Bm			
Security	WEP 64	I/128, TK	IP, WPA, WPA2	mixed,802.1x	and 802.11	

Original

Standard	IEEE 802.11 b/g/n standards compliant	Standard	IEEE 802.11 b/g/n standards compliant		
Wireless LAN	1TIR Mode	Wireless LAN	1T1R Mode		
Frequency Range	2.400 ~ 2.4835GHz (subject to local regulations)	Frequency Range	2.400 ~ 2.4835GHz (subject to local regulations)		
	802.11n: 20MHz/40MHz		802.11n: 20MHz/40MHz		
Number of Selectable Channels	USA, Canada (FCC):11 channels (2.4126Hz~2.4620Hz) S02.1 [Supper (CE): 13 channels (2.412GHz~2.472GHz) 1b/g: Europe (CE): 13 channels (2.412GHz~2.472GHz) Japan (TELEC): 14 channels (2.412GHz~2.472GHz)	Number of Selectable Channels	USA, Canada (FCC):11 channels (2.412GHz~2.462GHz) (2.412GHz~2.462GHz) (2.412GHz~2.462GHz) (2.412GHz~2.462GHz) (2.412GHz~2.472GHz) (2.412GHz~2.482SGHz) (2.412GHz~2.482SGHz)		
	802.11n: up to 150Mbps	\square	802.11n: up to 150Mbps		
Data Rate	802.11b: 1, 2, 5,5, 11Mbps	Data Rate	802.11b: 1, 2, 5,5, 11Mbps		
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps		802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps		
Transmit	11n HT40 MCS7 : +13 dBm	Transmit	11n HT40 MCS7 : +13 dBm		
Power(EIRP)	11g OFDM: +15 dBm	Power(EIRP)	11g OFDM: +15 dBm		
	11b CCK: +18 dBm		11b CCK: +18 dBm		
Security	WEP 64/128, TKIP, WPA, WPA2 mixed,802.1x and 802.11	Security	WEP 64/128, TKIP, WPA, WPA2 mixed,802.1x and 802.11i		
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4.3.2 Other Image Options

Binarization This is the process of converting a grayscale or color image to a bi-tonal image. There are several different methods of performing this conversion. Options: Dynamic Threshold, Fixed Processing, Halftone 1~5, Error Diffusion.

Dynamic Threshold: Selecting **Dynamic Threshold** allows the scanner to dynamically evaluate each document to determine the optimal threshold value to produce the highest quality image. This is used to scan mixed document containing faint text, shaded background, or color background with a single setting. If Dynamic Threshold is selected, Threshold, Brightness, and Contrast are not available.

Sensitivity of Dynamic Threshold

Occasionally your scanned image may contain small dots or speckles. To remove these spots, increase the sensitivity value by moving the bar to the right. The value ranges from 1 to 30. The default is 20. **Fixed Processing:** Used for black-andwhite and other high contrast documents. A single level is set to determine the blackand-white transition. The threshold is programmable over the entire density range. **Fixed Processing** sets Contrast to 0. If **Fixed Processing** is selected, Contrast is not available.

Halftone: In addition to the black and white display, Halftone can present a somehow gray shade of image by using different size of dots. Halftone image looks like the picture we have seen in the newspaper. Options include Halftone 1, Halftone 2, Halftone 3, Halftone 4, Halftone 5.

Error Diffusion: Error Diffusion is a type of Halftone. Error Diffusion gives good image texture and makes text in images more readable than Halftone.



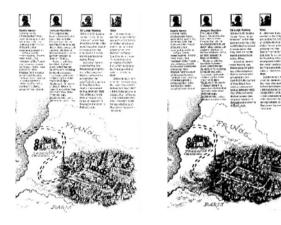
Halftone Image



Error Diffusion Image

Threshold Used to convert a grayscale image to a bi-tonal image. The value ranges from 0 to 255. A low threshold value produces a lighter image, and can be used to subdue backgrounds and subtle, unneeded information. A high threshold value produces a darker image, and can be used to help pick up faint images.

Adjust the threshold setting by dragging the Threshold sliding bar to the left or right to achieve the desired threshold setting.



200 dpi, Threshold:50, Brightness: 0

200 dpi, Threshold:100, Brightness: 0

Gray

Document Type: Choice: Normal, Photo, Document Three options of document type are provided when you choose Gray as the image type for your scanned document. Choice: Normal, Photo, Document.

- **Document:** Choose Document if your original contains pure text or a mixture of text and graphic since it is an optimal setting for regular business document. When using Document, only Threshold can be adjusted.
- **Photo:** Choose Photo if your original contains photo to reproduce your photo in vivid grayscale image. When using Photo, no Threshold and Contrast can be adjusted.
- **Normal:** When using **Normal**, Threshold, Brightness, and Contrast can be adjusted.

Threshold: The value ranges from 0 to 255. The default is 230. A low threshold value produces a lighter image, and can be used to subdue backgrounds and subtle, unneeded information. A high threshold value produces a darker image, and can be used to help pick up faint images. Adjust the threshold setting by dragging the **Threshold** sliding bar to the left or right to achieve the desired threshold setting.

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Document (Threshold: 230)



Normal

Normal



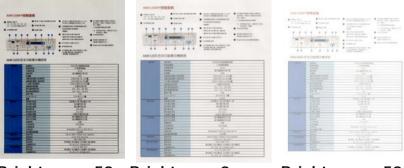
Photo

Photo

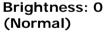


Document (Threshold: 230)

Brightness Adjusts the lightness or darkness of an image. The higher the value, the brighter the image. Drag the slider to the right or left to increase or decrease the brightness. The range is from -100 to +100.
 Contrast Adjusts the range between the darkest and the lightest shades in the image. The higher the contrast, the bigger the different grayscale. Drag the slider to the right or left to increase or decrease the contrast. The range is from -100 to +100.



Brightness: -50

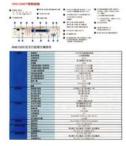


Brightness: +50



Contrast: -50

Contrast: 0 (Normal)



Contrast: +50

Resolution A good control of the resolution results a good detail of an image that scans. The resolution is measured by dots per inch (dpi). Normally, the greater the dpi number, the higher the resolution and the image file size. Be aware that greater resolution takes more time to scan, and more disk space for the scanning image. For your information, an A4 size color image scanned at 300 dpi at True Color mode consumes approximately 25 MB of disk space. A higher resolution (usually means over 600 dpi) is only recommended when you need to scan a small area at True Color mode.

Choose a resolution value from the drop down list. The default value is 200 dpi. Available resolutions are 75, 100, 150, 200,300, 400 and 600. Or you may choose your desired value by clicking the box in the right side of the drop down list and press the arrow key to select your desired value and then click the Add button to include it in the drop down list. **Note:** The resolution is up to 300 dpi if an imprinter or a MICR reader is installed or connected to the scanner.



Resolution: 75 dpi



Resolution: 150 dpi

Invert Reverses the brightness and the colors in the image. The default setting is Black on a White background. Reverse mode is White on a Black background. For color images, each pixel will be changed into its complementary color at the command of Invert.

'I am not worthy to have you enter my

that is God, I beg all my brothers – those w e who work manually, clerics and lay brothers ards being humble in all things; not to glorify r to become interlorly proud because of good w sometimes says or does in them or through tl ard: "Do not rejoice... in the fact that the de : 10:20) Let us be firmly convinced of the fact

Black on White

"I am not worthy to have you enter m

that is God, I beg all my brothers – those v e who work manually, clerics and lay brother rds being humble in all things; not to glorify to become interiorly proud because of good w sometimes says or does in them or through t rd: "Do not rejoice… in the fact that the de 10:20) Let us be firmly convinced of the fact

White on Black

Scan Choice:

- Source Auto Document Feeder: Used to scan multiple pages.
 - **Flatbed:** Used to scan a single page. For example, pages from newspaper clipping, paper with wrinkles or curls.
 - Flatbed (book): Used to scan several inside pages from book.
 - Automatic: Allow the scanner automatically set its scan source. If Automatic is selected and there is document in both the auto document feeder (ADF) and the flatbed, then the scan source will be automatically set to ADF. If Automatic is selected and there is document only in flatbed, then the scan source will be set to flatbed.
 - Merge Two Sides into One Image: If you have a sheet-fed duplex scanner with front input tray, you can scan an A3 size document with an innovative method. Thus, fold your A3 size document into A4, and then load the paper in the front tray. Choose Merge Two Sides from the Scan Source option and then the scanner is able to scan both sides of your document and merge two A4 images into one A3 image.

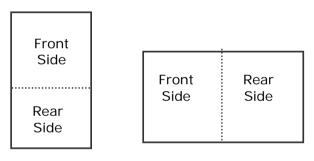
When you select Merge Two Sides into One Image, the Cropping or Multi-feed function will be disabled.

Note: This feature must be used with a carrier sheet. Regarding how to load a document with a Carrier Sheet, refer to Section 4.6.2, Other Paper Selection.

Note the options vary based on type of scanner.

Note: If you have purchased a duplex sheetfed scanner, choose [Merge Two Sides] on the [Scan Source], then the scanner is able to scan both sides of your document and merge them into a single image.

Select the "Merge Vertically" option to merge the front side and the rear side of a page into one image vertically. If the "Merge Vertically" option has not been selected, the front side and the rear side of a page will be merged into one page horizontally.



Merge Vertically

Merge Horizontally

Note the options vary based on type of scanner.

Color The purpose of Color Matching is getting the accurate color. This option uses the default parameters (ICC profile) to adjust the colors of the image.

Choice: None, Document, Photo

- None: Choose "None" to disable this option.
- **Document:** Choose "Document" if your original contains pure text or a mixture of text and graphic since it is an optimal setting for regular business document.
- **Photo:** Choose "Photo" if your original contains photo to reproduce your photo in vivid color image.



Normal



After Color Matching

4.3.3 Scanning color images

The following options are available for scanning color images.

- Brightness
- Contrast
- Resolution
- Invert

4.3.4 Scanning grayscale images

The following options are available for scanning gray images.

- Brightness
- Contrast
- Resolution
- Invert

4.3.5 Scanning B&W images

The following options are available for scanning B&W images.

- Binarization (Dynamic Threshold)
- Resolution
- Invert

Or

- Binarization (Fix Processing)
- Threshold
- Brightness
- Resolution
- Invert

4.3.6 Editing Profiles

The Scanner Properties dialog box allows you to change and save your frequently used scan settings into a profile. You can edit these profiles by renaming or deleting them.

To add a new profile,

- 1. Customize your settings. (For example, change your resolution, image type, cropping method, scan size, or other scan settings.)
- 2. Click the Image tab and then choose "Profiles" to prompt the "Edit Your Profile" dialog box.

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Rear Auto Color Detection Rear Color Rear Color Rear Color Rear Blow	Resolution (dpi) Invest	200 Black on White	Profile:	Duplex, 855W, 200 dpi	. (Add	Delete Reset
Scar Loan	er Ado Document Feeder	*					Exit

3. Click "Add" to enter the name of the profile and then choose "Save".



4. The new profile will be saved and shown in the "Profiles" dropdown list box.

To load a profile,

1. From the Image tab dialog box, choose your favorable profile from the "Profiles" dropdown list box.

Edit Your Profile			
Profile:	Duplex, 8&&W, 200 dpi Duplex, 8&&W, 200 dpi Duplex, Color, 200 dpi Simplex, Back, 200 dpi Simplex, Color, 200 dpi Simplex, Color, 200 dpi	Add Rename	Delete Reset
			Exit

2. Your favorable profile will be immediately loaded and displayed on Scanner Properties dialog box.

To delete a profile,

1. From the Image tab dialog box, click "Profiles" to prompt the Edit Your Profile dialog box.

Edit Your Profile			
Profile:	Flatbed	Add	Delete
		Rename	Reset
			Exit
			Exit

- 2. Choose the profile you want to delete from the dropdown list box.
- 3. Click "Delete". A Confirm message "Are you sure you want to delete this profile?" is prompted.
- 4. Choose "Yes" to delete or "Cancel" to quit.

To rename a profile,

1. From the Image tab dialog box, click "Profiles" to prompt the Edit Your Profile dialog box.

Edit Your Profile			
Profile:	Betsy ▼ Flatbed Simplex - B&W, 200dpi Simplex - Color, 200dpi Simplex - Gray, 200dpi	Add Rename	Delete Reset
			Exit

- 2. Choose the profile you want to rename from the dropdown list box and then click the Rename button.
- 3. Enter new name for the profile.

Rename a Profile	
Please enter the new name	e of the profile:
Original Name:	Betsy
New Name:	
	Cancel

4. Choose "Save" to save the new profile or "Cancel" to quit.

Note:

The preset default profiles include Flatbed, Simplex-B&W, 200 dpi, Simplex-Gray, 200 dpi, Simplex-Color, 200 dpi, Duplex-B&W, 200 dpi, Duplex-Gray, 200 dpi, Duplex-Color, 200 dpi. If you have a simplex or a sheetfed scanner, the duplex or the flatbed option will not be available.

4.4 The Compression Tab

The Compression tab allows you to compress your scanned image and choose the level of compression. Bi-tonal images are normally compressed using CCITT standard called Group 4 (G4). Color and grayscale images are often compressed using JPEG technology. Move the **JPEG Quality** slider to the right or left to increase or decrease the level of compression. Note the greater the compression level, the lower image quality. Default is 50%.

Note that the compression depends on your image editing application. If your image editing application does not support the type of compression format, then either a warning message will appear or the image quality of the compressed file will not be acceptable.

JPEG (Joint Photographic Editor Group). This group developed and lent their name to a file compression standard for color and grayscale images that is widely used by scanners, and software applications. On Microsoft Windows-based systems, a file with the extension .jpg has normally been compressed using this standard.

For scanning color or gray images, the following compressions are available:

- None
- JPEG

•

For scanning B&W images, the following compressions are available:

- None
- G4

Scanner Properties	ng Information			
Front Auto Color Detection Front Color Front Gray Front Gray Front B&W	Compression: JPEG Quality:	None	►	
Defaults			σκ	Cancel

The Compression tab dialog box

4.5 The Color Dropout Tab

4.5.1 Color Dropout Selection

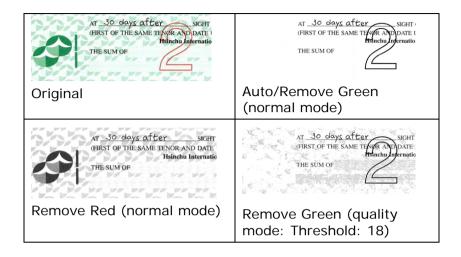
The [**Color Dropout**] tab allows you to select either green, red, blue, or a color of your choice to remove the details of the selected color from a scanned image. This feature is used to sharpen your text when using OCR (Optical Character Recognition) software. Note this feature applies only to the gray or black and white image.

Choice: None, Auto, Remove Red, Remove Green, Remove Blue, Custom

- **None**: Does not remove any color.
- **Auto**: Automatically outputs the image with the details of the primary color removed.
- **Remove Red/Remove Green/Remove Blue**: Outputs the image with the details of the specified color removed.
- **Custom**: Specify the color you wish to remove by entering its RGB (Red, Green, and Blue) value respectively.

Advanced Options:

- Quality Mode: Range: 0~20. Default: 10
 When [Quality Mode] is selected, you can determine the color to be dropped out using the [Filter Threshold] slider. A lower value will drop more of the selected color out, while a higher value will leave more of the selected color in.
- **Normal Mode**: Use an optimized setting to determine the color.



Preview the color dropout result:

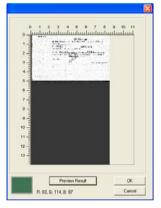
To preview the color dropout result, please follow these steps:

- Click the [Scanner Properties] icon () on the upper left corner, and choose [Tab] to show available tab names.
- 2. Choose [**Preview**] to show the Preview tab.
- 3. Click the [**Preview**] tab to show the Preview page.
- 4. Load your document to the scanner and click the [**Preview**] button to get a preview image.
- 5. On the [Image] tab, click [Gray] or [Black and White] image mode and then choose [Custom] on the [Color Dropout] tab. A [Preview window] button will be displayed.
- 6. Click the [**Preview window**] button to prompt the [**Preview**] window with the previewed image.

- 7. Move your cursor over the preview image. Your mouse cursor now becomes an Eyedropper.
- 8. Click to select a color which you wish to remove.
- 9. Click and hold your mouse button to view the result after removing the specified color. If the result is satisfactory, click **[OK]** to close the Preview window.



The Preview Window



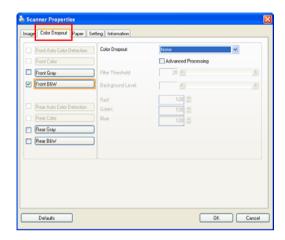
The Color dropout result

Scanner Properties				×
Image Color Dropout Paper Pri	eview Enhancement Setti	ng Information		_
Front Auto Color Detection	Color Dropout:	None	~	
Front Color		Advanced Processing		
Front Gray	Mode:	Normal	*	
Front B&W	Filter Threshold:	10 <	3	0
	Red:	128 🤤		
Rear Auto Color Detection	Green:	128 😂		
Rear Color	Blue:	128 👙		
Rear Gray				
Rear B&W				
Defaults		ОК	. Canc	el

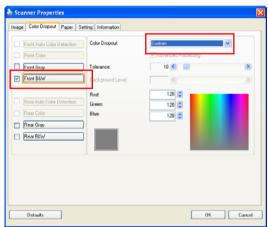
The Color Dropout dialog box

To select a color on the Color palette,

 Click the Color Dropout tab from the Scanner Properties dialog box.



 Choose Gray or B&W from the Image Selection box and click "Custom" from the Color Dropout drop-down menu. The Color palette appears.



 Move your cursor over the palette. The cursor becomes a cross sign.

Scanner Properties	ing Information		×
Front Auto Color Detectors Front Auto Color Detectors Front Daw Front Baw Front Baw Front Baw Front Baw Front Color Detectors From Color From	Color Dropout: Tolerance: Background Levet Red: Green: Blue:	Cultor ⊘Advanced Processing 10 ≤ 0 180 0 75 0 10 1 10 10 1 10 10 1 10 1 10 10 1 10 10 1 10 10 10 1 10	>
Defaults		ОК С	Cancel

4. Click to choose a color. The RGB values are changed simultaneously.

4.6 The Paper Tab

The Paper tab allows you to define values relating to image output (i.e., Auto Crop or not, Scan Area, OverScan, Multi-Feed Detection).

Scanner Properties					×
Image Color Dropout P	Paper Preview Setti	ing Information			
Cropping:	Automatic	~			
	Carrier Sheet M	lode			
Scan Area:	None	*			
	 Portrait 	🔿 Landscape			
	X-Offset:	0.00 🌲	Width:	8.50 👙	
	Y-Offset:	0.00	Length:	14.00	
Adjustment:	Left:	0.00 🛟	Тор:	0.00 🛟	
	Right:	0.00 🗘	Bottom:	0.00 😂	
Background Setting:	White Backgroun	d 💌			
Unit:	Inches	~			
Feeding					
Transport Timeout:	<	> () Seconds		
Defaults				OK Cancel	_

The Paper tab dialog box

4.6.1 Cropping

Cropping allows you to capture a portion of the document being scanned. Choice: Automatic, Automatic (36"), Fixed to Transport, EOP (End of Page) Detection, Automatic Multiple, Relative to Documents.

Options	Description
Automatic	Automatic adjusts the cropping window according to different document sizes and automatically straighten a skewed document. Use this option for batches of mixed-sized documents.
Automatic (36")	Automatically adjusts the cropping window according to different document sizes smaller than 36" and automatically straighten a skewed image. Use this option for batches of mixed-sized document.
	<i>Note: The availability of this feature varies due to scanner model.</i>
Fixed to Transport	This feature allows you to define the area or zone to be imaged. Use for batches of same-sized documents. If you select this option, you can use the arrow keys to define the x and y offset values, width and length to redefine your scanned area. The Display window will show image placement as you change the values.
EOP (End of Page) Detection	This feature allows you to define the area or zone to be imaged. Use for batches of same-width but different length documents. If you select this option, you can use the arrow keys to define the x and y offset values, width and length to redefine your scanned area. The Display window will show image placement as you change the values.

Automatic	This option allows you to place various
Multiple	sized documents such as photos, ID Cards,
-	or business cards on the flatbed (if
	available) and lets you create multiple
	individually cropped images in one scan.
	Note: To correctly create multiple images,
	please make sure there is at least 12mm
	(0.5") of space between each document.
Relative to	This option allows you to crop different
Document	areas on your documents and deliver these
	images in B&W, Gray, or Color separately.
	For example, there are applications which
	require you to store the entire document in
	B&W and a part of the document in color to
	save storage space. This is useful for
	documents where a photograph or
	signature appears in a consistent area on
	the document such as resumes, and so on.

The following options are only available when **Fixed to Transport** is selected.

- **X-Offset** the distance from the left end of the scanner to the left edge of the scanning area.
- **Y-Offset** the position from the top end of the document to the top end of the scanning area.
- Width the width of the scanning area.
- **Length** the length of the scanning area.
- **Center:** automatically calculates the x-offset for centerfed feeding based upon document size selected.
- relocate the scan area by click the arrow key on the cross sign while retain the scan size. View the result from the Display window.

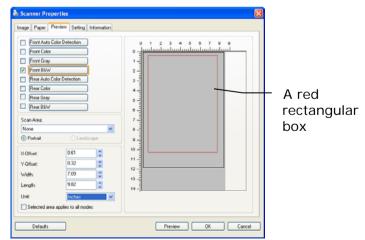
The Adjustment option is available when **Automatic** is selected.

 Adjustment —adds a positive/negative margin value Top/Bottom or toward left/right of the image.
 Adjustment is used when the automatic document feeder is used. Adjustment reduces the possibility of corner clipping on skewed images. To set Adjustment values, use the UP/Down buttons to select where you want to apply Adjustment values: Top/Bottom or Left/Right, and then select the amount of inches/mm/pixels applied. Select a value within the range of 0.00 to 1.00 / -1.00. **Relative to Document:** (used for batches of same-sized documents)

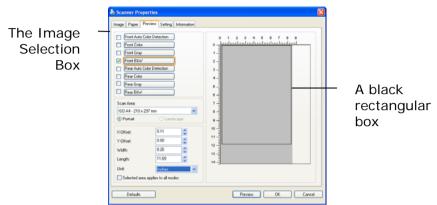
This option allows you to crop different areas on your documents and deliver these images in B&W, Gray, or Color separately. For example, there are applications which require you to store the entire document in B&W and a part of the document in color to save storage space. This is useful for documents where a photograph or signature appears in a consistent area on the document such as resumes, and so on.

The following procedure describes how to reproduce the entire document in B&W and a portion of document (picture) in color.

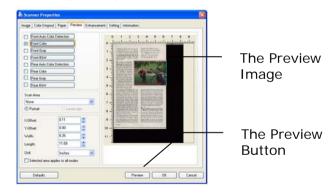
- 1. On the Paper tab, choose "Relative to Document" or "Fixed to Transport" from the Cropping option.
- Choose your scan size from the Scan Area option. The selected scan size will be displayed in a red rectangular box. This is also the scan size of your entire document. (For example, ISO B5. If you have not chosen a scan area and leave the selection as None, then the default area will be the scanner's maximum.)



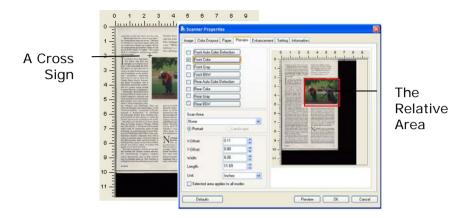
3. Click the Preview tab to display the Preview window. A black rectangular box appears to indicate the max. scan size your have just selected.



4. Click the Preview button to view the entire image in low resolution to correctly crop your relative scan area.



- Select image type from the Image Selection box. The selected image will appear in highlighted color. (For example, Front Color)
- Place your cursor on the Preview window and click your left mouse button. A cross sign will appear as illustrated. Create your relative scan size diagonally by dragging the left mouse button to your preferable size. The selected area will appear in a red box as illustrated.



- Check the B&W image from the Image Selection box to 7. scan the entire document.
- 8. Click the Scan button to start scanning the document in two image types and sizes. (See the result in below.)



The entire document in B&W The relative area in color



4.6.2 Other Paper Selection

Carrier Sheet Mode:

Check this option to automatically crop the scan window according to your document size when scanning non-standard document (fragile, irregular-size document) with a carrier sheet (optional). Note: The availability of this option varies due to scanner model.

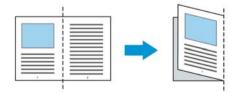
Loading Documents Using a Carrier Sheet

A Carrier Sheet is a plastic sheet specifically used for loading non-standard document onto the scanner. It allows you to scan document that can not be scanned in the regular way. Also, documents larger than A4 size, such as A3 and B4, can be scanned by folding in half, inserting into the Carrier Sheet, and scanning in duplex mode. You can also scan documents that can be damaged quite easily such as photographs, or irregular size documents that are difficult to load directly such as clippings.

To scan document using a Carrier Sheet,

For documents larger than A4/Letter size, such as A3

- a. Fold the sheet to be scanned in half.
- b. Fold the sheet tightly and smooth out crease. Otherwise, the sheet may be skewed during scanning.

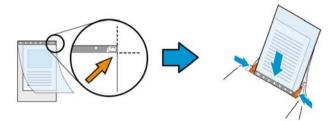


1. Open the Carrier Sheet and place the document inside.

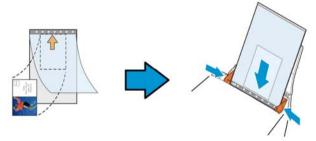
Align the top of the document to the top of the Carrier Sheet (the printed area).

For documents larger than A4/letter size, such as A3

Align the top of the document to the top of the Carrier Sheet (the printed section) and the folded portion to the right edge of the Carrier Sheet so that the document fits into the Carrier Sheet at the upper corner.



For non-standard document Center your document in the Carrier Sheet.



- 2. Load the Carrier Sheet with the gray section (printed section) facing downwards.
- 3. Adjust the paper guides to the width of the Carrier Sheet. Adjust the paper guides so that there is no space between the guides and the Carrier sheet. Space between the guides and Carrier Sheet may cause the Carrier Sheet to become unaligned during scanning, and skew the scanned image.
- 4. Start the scan.

Notice:

- [Carrier Sheet] is available for the models that support the Carrier Sheet.
- Some functions are disabled when [Carrier Sheet] is checked.
- This option may not work properly on some applications.

Scan Area

Choose your desired paper size with the drop-down list box. Or you may select a custom paper size by clicking the **Scan Area** box and then click **Add** to include in the choice.

Choices are listed below:

None
US Letter- 8.5"x 11"
US Legal – 8.5" x 14"
ISO A4 – 21 x 29.7 cm
ISO A5 – 14.8 x 21 cm
ISO A6 – 10.5 x 14.8cm
ISO A7 – 7.4 x 10/5 cm
ISO B5 – 17.6 x 25 cm
ISO B6 – 12.5 x 17.6 cm
ISO B7 – 8.8 x 12.5 cm
JIS B5 – 18.2 x 25.7 cm
JIS B6 – 12.8 x 18.2 cm
JIS B7 – 9.1 x 12.8 cm
Scanner Maximum
Long Page (<118")

Long Page (<118"):

When you need to scan documents whose length exceeds scanner maximum, please choose Long Page. Note if Long Page is selected, the Multi-Feed Detection will not be available. (Note: This option and the maximum allowable document length vary due to type of scanner.)

When **Long Page (<118")** is selected, be sure to specify your document size in the **Length** and **Width** field.

Notice when scanning long page document:

- 1. Pull out the extension in the ADF Paper Tray.
- 2. Secure enough space around the Output Tray to prevent the ejected paper from falling off the Output Tray.
- 3. To ensure the performance, in color mode, set the resolution to be 300 dpi or lower; in Black and White mode, set the resolution to be 600 dpi or lower.
- 4. Depending on your system environments, application, or your specified paper size, there may be insufficient memory to perform scanning.

OverScan

Overscan allows you to add a specific margin at top and bottom or right and left (Options vary based on the type of scanner) of the edge of the image. This is used to reduce possible corner clipping on the skewed images and often applied to a batch of skewed document to be scanned in the auto document feeder. Select a value between 0 and +5 mm. Note the overscan result will not be shown in the Display window and that the availability of the function varies based on type of scanner.

Pre-Feed

Choice: Enable, Disable. If enable is selected, you can set the amount of time the scanner starts pre-feeding your paper after your documents has been loaded into the feeder. The default is disable. Note: The availability of this option varies due to scanner model.

Transport Timeout

Set the amount of time the scanner will wait and then start auto scan after the first scan job is completed. If you have many separate documents need to be scanned at the same scan settings, this feature is especially useful. The default is 0. The value ranges from 0 to 30 seconds.

Note:

- 1 Within the specified timeout period, if you load your document to the feeder, the scanner starts scanning automatically.
- 2 If your scanner has a flatbed option and you place your paper on the flatbed, after the timeout period, you need to click the Scan button on the TWAIN user interface to start scanning.

Background Setting

This option allows you to set your scan background. Choice: White Background, Black Background.

Note: For a sheet-fed scanner with an auto document feeder, this option is currently available only in the "Auto crop" mode. For a scanner with a flatbed platen, this option is available either in the "Auto crop" or the "Fixed to Transport" mode.



White Background



Black Background

4.7 The Multi-Feed Detection Tab

Multi-Feed Detection

Multi-Feed Detection allows you to detect overlapped document that go through the auto document feeder. Multi-Feed usually occurs due to stapled documents, adhesives on documents, or electro-statically charged document. Note : The availability of the function varies based on type of scanner.

Scanner Properties		X
Image Paper Multi-Feed Detection Se	atting Information	
Multi-Feed Detection		
Additional Length Detection:	None 🤤	
Ultrasonic Detection		
Stop Scanning after Multi-Feed		
Clear the Multi-Feed Paper:	Manual	
Multi-Feed Alarm:	C:\WINDOWS\Media\ding.wav	Browse
Unit: Inches	v	
Defaults		OK Cancel

Additional Length Detection

Additional Length Detection allows you to define the length of document being multi-fed. This value indicates the additional length exceeding your scan area. The Display window will show the size of the document as you change the value. A value of 0 indicates no additional length detection. The Additional Length Detection is best used when scanning same-size documents in the auto document feeder.

Ultrasonic Detection

Ultrasonic Detection allows you to set overlapped document by detecting paper thickness between documents. Note: The availability of the function varies based on type of scanner.

There are two options available if Multi-Feed is detected.

• Stop Scanning after Multi-Feed

If this is selected, the scanner will stop the feeder and display the following Warning dialog box if multi-feed is detected.



Action:

- 1. Follow the instruction on the Warning dialog box to remove the rest pages on the feeder.
- 2. Click OK to close the Warning dialog box.
- 3. Scan the rest pages.

Clear the Multi-Fed Paper: Auto

If this is checked, once multi-feed is detected and scanning operation is stopped, the scanner will automatically clear the transport of the multi-fed paper. If this is not checked, once multi-feed is detected and scanning operation is stopped, you need to manually clear the transport of the multi-fed paper. Note: The availability of this option varies based on type of scanner.

• Multi-Feed Alarm

If a wave file is added, the scanner will make a sound alarm if multi-feed is detected yet no Warning dialog box will be displayed.

If "Stop Scanning after Multi-Feed" is selected, the scanner will stop the feeder.

If "Stop Scanning after Multi-Feed" has not been selected, the scanner will continue to scan till the end of your document.

Action:

- 1. If "Stop Scanning after Multi-Feed" is selected, follow the action described in the preceding section "Stop Scanning after Multi-Feed" on the previous page to complete your job.
- 2. If "Stop Scanning after Multi-Feed" has not been selected, rescan the pages where multi-feed is detected.

How to add the sound alarm :

- 1. Click the Browse button on the right side of the speaker icon. The Open dialog box appears.
- 2. Choose your wave file.
- 3. Click the Open button. The wave file is added.

Units

Defines the primary measurement system. Inches, Millimeters, and Pixels are available.

4.8 The Preview Tab

The Preview tab allows you to preview (a low-resolution scan) your image before final scan. This preview image lets you allocate your scan area. You can choose your scan area by the "Scan Area" drop down list box or placing your cursor on the Display window and dragging it diagonally on the Display window. Then, a red rectangle box will appear to indicate the selected area.

Note: If you choose "Automatic Cropping" on the "Paper Tab", then to select a scan area on the Preview tab is not allowed.

Front Auto Col Front Color Front Gray Front B&W Rear Auto Col Rear Color Rear Gray Rear B&W Rear B&W		0 1 2 3 4 5 0 7 0 9	The Display Window
Scan Area:		 The second second	
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Length:	11.69		
Unit:	Inches		
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The Preview Tab

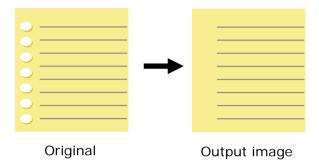
4.9 The Enhancement Tab

The Enhancement tab allows you to set following additional image processing settings.

laction of the second s		×
Image Color Dropout Paper	r Preview Enhancement Setting Information	
Punch Hole Removal		
🔲 Punch Hole Removal		
Background Setting		
Background Processing:	None	
Speed:	Fast	
Fill Color:	White	
Edge Fill		
White Black	Edge Extend Millimeters	
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Noise Number:	0 🗢 Pixels	
Noise Radius:	1 🗧 Pixels	
Defaults	OK Cancel	5
Dorduits		

The Option tab dialog box

PunchYou can remove punch holes from the outputHolescanned image when scanning punched document.RemovalNote the availability of this feature varies
depending on your scanner model.



Punch holes can not be removed when:

- Resolution is set lower than 150dpi
- The hole is near the edge of the document
- The holes are not aligned along the edge of the document
- Punch Hole Removal is available only when "Auto Crop" is enabled. If either "Fixed to Transport", "EOP (End of Page) Detection", "Automatic Multiple", "Relative to Documents" is selected from the Cropping option on the Paper tab, the Punch Hole Removal option will be disabled.

Background Processing: The [Background Processing]

option allows you to smooth background color or remove it to make image clearer. The option is especially useful for documents with color forms such as invoices.

Choices: None (default), Smooth, Removal

- None no background processing will be performed (default)
- **Smooth** produces images with a more uniform background color. This option improves image quality.
- **Removal** identifies the background color and then removes it.

Sensitivity: Choice: 0, 1, 2, 3, 4. Default: 0

- The higher the value, the more background color will be kept.

Mode: Auto, Moiré

If [**Smooth**] is selected in the [**Background Processing**] option, then the choices for the [**Mode**] option includes Auto, and Moiré.

- **Auto** uses the factory preprogrammed mode to proceed background smoothing.
- **Moiré** Remove the moiré patterns that appear on the background of the image when scanning printed material.

If [**Removal**] is selected in the [**Background Processing**] option, then the [**Mode**] option will be replaced with [**Fill Color**]. Choices: White, Auto.

- White identifies the background color and substitutes it with white.
- **Auto** identifies the background color and substitutes it with the color of the largest background zone.

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Background Processing: None

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Background Processing: Smooth

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Background Processing: Removal Fill Color: White

Note: Background color in small zone will not be processed or removed.

Edge Check White or Black if you wish to add white or Fill black edge on the border of your scanned image. Enter the value from 0 to 5 mm. Default value is 0.

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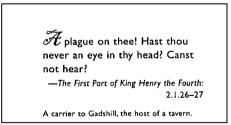
Despeckle

Occasionally small dots or specks appear in the background of a scanned image. Remove unwanted speckles provides a cleaner image for OCR (Optical Character Recognition) processing, and also helps to reduce compressed file size.

Define the speckles (also known as image noise) you wish to remove by specifying its number (size) and radius (range). The measuring unit is pixel. The higher the number, the more speckles will be removed.

 \mathcal{A} plague on thee! Hast thou never an eye in thy head? Canst not hear? -The First Part of King Henry the Fourth: 2.1.26-27 A carrier to Gadshill, the host of a tavern. Before Despeckle

(noise number:0, noise radius:1)



After Despeckle (noise number: 22, noise radius: 10)

Note:

- The function is currently available for Black and White image only.
- To scan at rated speed, it is recommended to set the noise radius up to 10 pixels.

4.10 The Rotation Tab

The Rotation tab allows you to set the following image rotating options:

🂩 Scanner Properties		×
Image Paper Rotation	Setting Information	
Rotation		
Rotation Degrees :	None	
Image Control Options		
Split Image:	None	
Flip Side Rotation		
AA Book	A O Fanfold	
Image Control Options		
Mirror		
Defaults	OK Cancel	

RotateChoose the rotation angle from the drop downImagelist if you wish to rotate your scanned image.

Choice: None, 90°CW(clockwise), 90°CCW(counter clockwise), 180°, Auto based on contents. Auto rotate every even page.

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1 2 3	2
	ω
Original	Rotate 90°CW
5	153
,	
Rotate 90°CCW	Rotate 180°

Auto based on contents: When Auto based on contents is selected, images can be rotated to their proper orientations based on their contents.

Auto rotate every even page:

Automatically rotate 180° on every even page. This is especially useful when you scan the inside pages from a book. As a result, if you choose "Flatbed (book)" from the "Scan Source" option, "auto rotate every even page" will be selected as default.

Note: This option varies based on type of scanner.

Split By splitting an image, two separate images are created horizontally or vertically. This is useful for documents containing two pages per image when you want to save them as two images (one page for one image). Choice: None, Horizontal, Vertical. Default is None.

Horizontal: Divide one image into the upper half and the lower half.

Vertical: Divide one image into the left half and the right half.





Split Horizontally

Split Vertical

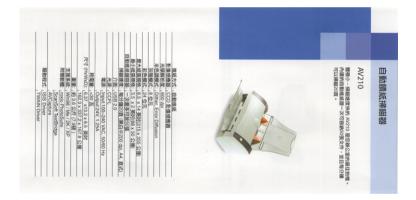
Flip Side
RotationSelect "fanfold" to rotate the image of the
reverse side to 180 degrees.

This is applied to double-sided document which are viewed in portrait are sometime fed into the scanner in landscape or vice versa.

Choice: Book, Fanfold.

If "Book" is selected, the image of the reverse side will not be rotated.

The following illustration shows the documents which should be viewed in portrait are fed into the scanner in landscape



ImageCheck the Mirror box if you wish to reverse the rightControland left side of your image.Option



Original



The Mirror Effect

4.11 The Separation Tab

The Separation tab allows you to enable the detection engine to detect the blank page, barcode, and patch code and then notify the software application which supports document separation to separate your multi-page documents. Choices: Blank Page Removal, Barcode Detection, Patch Code Detection.

la Scanner Properties	X
Image Paper Rotation Separation Setting Information	
Blank Page Removal	
Blank Page Removal Threshold:	50 %
Barcode Detection	
Enable	
Patch code Detection	
Enable	
Defaults	OK Cancel

Blank Page Removal

Check if you wish to remove the blank page and move the slider to the left or right to your desired threshold.

When the bar code has been detected successfully , a file [avbarcode.ini] will be created and stored in the following path:

Windows XP: C:\Documents and Settings\All Users\Application Data\%PRODUCTNAME%

Vista, Windows 7, Windows 8, Windows 10: C:\ProgramData\%PRODUCTNAME%

Barcode Detection:

Check [**Enable**] to detect barcode and notify the software application for advanced processing. Please note the whole document will be checked and no specific detection area needs to be designated.

Barcode Types:

The following barcode types can be detected.

Two-dimensional codes

- Aztec
- DataMatrix
- PDF417
- QR Code

One-dimensional barcodes:

- Add-2
- Add-5
- Airline 2 of 5
- Australian Post 4-State Code
- BCD Matrix
- Codabar
- Code 128 (A,B,C)
- Code 2 of 5
- Code 32
- Code 39
- Code 39 Extended
- Code 93
- Code 93 Extended

- DataLogic 2 of 5
- EAN 128 (GS1, UCC)
- EAN-13
- EAN-8
- GS1 DataBar
- Industrial 2 of 5
- Intelligent Mail (One Code)
- Interleaved 2 of 5
- Inverted 2 of 5
- ITF-14 / SCC-14
- Matrix 2 of 5
- Patch Codes
- PostNet
- Royal Mail (RM4SCC)
- UCC 128
- UPC-A
- UPC-E

Note:

- Recommended resolution: 200~600 dpi for regular barcode, 300~600 dpi for QR code
- Skewed barcodes may not be recognized correctly.
- Using the same sheet repeatedly may decrease the recognition accuracy due to accumulated dirt on the sheets. If the sheet is not recognized correctly or gets smudged, replace it with a new sheet.

Patch code Detection:

Check [**Enable**] to detect patch codes and notify the software application for advanced processing.

A patch code is a pattern of parallel, alternating black bars and spaces (i.e. a barcode) that is printed on a document. Patch code sheet is most commonly used as a document separator in a stack of document.

You can find various sizes of patch codes (PDF) by choosing [Start] menu>[All Programs]>[Avision Scanner Series]>[Patch code] in succession.

Simply print the PDF file to produce the patch code sheet. Insert the patch code sheets to wherever you want the file to separate.



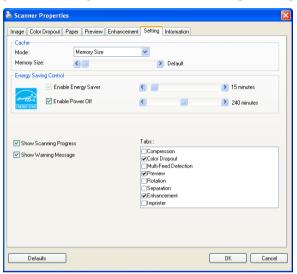
Patch code sheet

Notes to print the patch codes:

- Use blank white paper.
- Set the scaling to 100%. The sheet is not recognized correctly when printed in a size smaller than the original.
- Do not use toner saving mode. The sheet is not recognized correctly when the print is too light.
- Do not use thin paper in order to avoid bleed-through from the back.
- When you copy a patch code sheet that you printed out, make sure to copy by the same size and brightness as the original copy.
- Use the same sheet repeatedly may decrease the recognition accuracy due to accumulated dirt on the sheets. If the sheet is not recognized correctly or gets smudged, replace it with a new sheet.

4.12 The Setting Tab

The Setting tab allows you to set the following settings:



The Setting tab dialog box

Energy Saving Control	Check the Enable Energy Saver box and move the slider to set the amount of time to start the energy saver after your last action. The range is from 1 to 242 minutes. The default value is 15 minutes.
Enable Power Off	Check the Enable Power Off box and move the slider to set the amount of time to automatically turn off the scanner after your last action. The range is from 1 to 480 minutes. The default is 242 minutes (4 hours). Note the value of "Power Off" has to be greater than or equal to the value of "Energy Saving".

Cache	Mode: None, Page Number, Memory Size.
	This option allows you to assign a specified memory size from the available RAM to process the image data. By specifying a smaller memory size, you can free more memory for other applications you are running. By specifying a larger memory size, you can have more memory to process the image data especially when you have a large amount of documents needed to be scanned.
	You can also specify your memory size by the page number. For your information, an A4 color document scanning at 300 dpi consumes approximates 24MB.
	Image Count When the selected cache mode is "none", the image count option allows you to assign number of pages you need to scan. For example, if you wish to scan the first two pages, simply move the page slider to 2, and the scan action will be stopped when the scanning of the first two pages have been completed.

Show Scanning Progress	Check and the scanning progress bar will be shown during scanning.
Show Warning Message	Check to show the warning messages such as "ADF pad count exceeds 50,000 scans (the number varies based on type of scanner). Please replace the ADF pad and reset the pad count."
Save Settings after Closing	Check to save your scanner properties settings after leaving the dialog box. Next time when you open the Scanner Properties dialog box, the previously saved settings will be shown.

4.13 The Imprinter Tab

The Imprinter tab allows you to print alphanumeric characters, date, time, document count and custom message on your scanned image if digital imprinter is selected or at the back of your document if external imprinter is selected.

Scanner Properti	es					
mage Color Dropout	Paper Preview Enh	nancement Setting	Imprinter	Information		
Digital Imprinter Content Print All						
Custom:						
Counter:	0001	► Da	ate/Time:	None	•	
Custom Font:	Normal	~				
Advanced				Print Position		
Font Attributes:	Normal	~		Position:	Middle	*
String Orientation:	Normal	~		× Offset:	0 mr	n
				Y Offset:	0 mr	n
Sample						
0001						
					<u> </u>	
					More	
Defaults					ок с	ancel

Choice: External Imprinter, Digital Imprinter. If you have installed an external imprinter, choose external imprinter. If you do not have an imprinter, choose digital imprinter. Note External Imprinter provides a vertical and rear-side print capability while digital printer provides a horizontal and front-side print capability.

Contents

Print All	Check Print All to automatically print the text at all pages of your documents. Uncheck Print All to print the text for the first page of your documents only.
Custom	Enter your custom text to be included in your
	print string.
Counter	Show the document count for the scan
	session. This value is increased sequentially
	by the scanner.

Date/Time	Choose if you wish to include the date and time in your print string. Format: YYYYMMDDHHSS For example, 20090402170645-check0001 indicates year, month, date, hour, seconds, your custom text and the counter.
Custom Font	Choose your desired font. Choice: Normal, Fixed Width Fixed Width (Mono spaced) fonts have a fixed character spacing. So each character occupies the same width.

Advanced

Font	Choose your font attributes. Choice:
Attributes	Normal, Underline, Double, and Bold.

String Orientation	Choose your string orientation. Choice: Normal, Rotated, Vertical, Vertical Inversion, 90 degrees CW, 90 degrees CCW		
	2010abc	2010abc	
	Normal	Rotated	
	2 0 1 0 a b c	с 9 0 1 0 1 0	
	Vertical	Vertical Inversion	
	ode0102		
	90 degrees CW 90 degrees CCW		
	If you check the digital imprinter to stamp text on your scanned image, the illustration of normal and rotated string is shown below:		
	2010abc ^{oqe} 010Z		
	Normal		

Print Position	Choose the position you wish to print your string. Move the slider to the right to increase the value or to the left to decrease the value. Range: 0~355mm, default:0 mm The value indicates the height from the bottom of your paper to the last letter of your string. This option is available only if an external imprinter is installed.			
	0001 abc 2010 The value of Print Position			

Print Position (for digital imprinter)

Choose the position of your printed string. **Choice: Top**, **Middle, Bottom, Custom.** If Custom is selected, enter the X and Y offset value to specify the position.

4.14 The Information Tab

The Information tab displays the following system and scanner information.

💩 Scanner Properties		
Image Color Dropout Paper Preview	Enhancement Setting Imprinter Information	
Info		
CPU: BAM:	Intel(R) Core(TM) i3-2120 CPU @ 3.30GHz 1023 MB	^
BAM: DS:	TU23 MB Microsoft Windows XP Service Pack 3 (Build 2600)	
OS Language:	English (United States)	
Disk Drive:	Fixed drive C:\Total:20465MBFree:14119MB	
	Fixed drive Y:\Total:102398MBFree:8122MB	
Free Disk Space:	14119 MB	
Application Name:	Avision Capture Tool 1.6 (1.9)	
TWAIN Driver Version:	6.00.0620'14	
I/O Driver Version:	0, 9, 2014, 528	
Port Type:	USB	
ID / Address: Optical Resolution;	USB 600 dpi	
optical nesolution.	ooo api	
Scanner Model:	AD 280	
Serial Number:	999999999999999999999999	
F/W Version:	0.41	~
Report		
		Cancel

The Information tab dialog box

The "Report" button :

If you encounter any error message while using the scanner, click the Report button. A report.txt file [Windows XP: C:\Documents and Settings\All Users\Application Data\%PRODUCTNAME%; Vista, Windows 7, Windows 8, Windows 10: C:\ProgramData\%PRODUCTNAME%(C: system drive)]] will be generated. Please send this file to the nearest service center for trouble shooting.

The "Reset Roller Count" button :

After scanning over a recommended number of pages (refer to subsequent section 7.4 Replacing the ADF Roller) through the ADF, the ADF roller may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the ADF roller with a new one. (Note the replacement of the ADF roller has to be performed only by authorized service center. Therefore, please return your scanner for roller replacement.) After replacing the ADF roller, click the "**Reset Roller Count**" button to reset the roller count.

Note :

The lifetime and the replacing procedure vary based on type of scanner.

5. **ISIS Interface Operation**

* Please refer to the preceding chapter, Scanner Installation, to install ISIS scanner driver. You may start your ISIS-compliant software application to scan via the ISIS user interface.

The ISIS driver operation method is similar to the TWAIN's. Every function on the ISIS interface screen is briefly described as below:

Mode:	Brightness	OK
Black and White Dither:	Manual C Automatic	<u>D</u> efault
Halitone 4		Cancel
Dots per inch:	Darken Norm Lighten	Area
300		
Page Size:	<u>C</u> ontrast	
A5 - 14.8 x 21.0 cm	 Manual C Automatic 	
PIXDFLT Version 55.1.260.851 Avision PXN Driver V2.01.062402	128	

Mode: Select one of scan modes, including B&W, gray, color options.

Dither: 5 halftone levels available, can be disabled.

Dots per inch: Select your desired resolution.

Paper Size: Select your desired paper size.

Brightness: Adjust your scan image brightness or darkness.

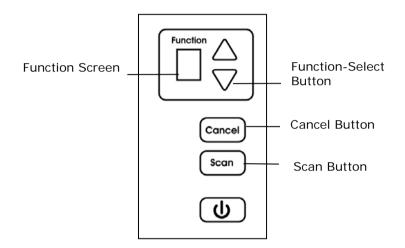
Contrast: Adjust the range between the darkest and the lightest shades in the image.

Default: Click to reset all settings.

Area: Select your desired scan area or position.

6. Using the Buttons

The following picture shows the 4 buttons and 1 function screen on the scanner.



6.1 Installing Button Manager V2

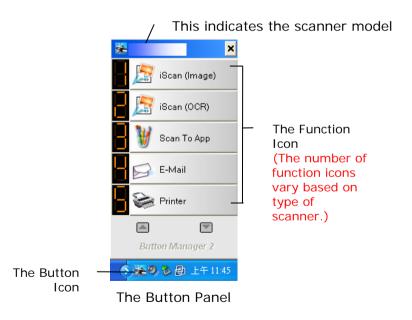
Button Manager V2 provides you an easy way to scan your document and then link the scanned image to your designated software application. All this can be done by a simple touch of the button on the scanner. Yet, before you scan, it is recommended to check the button configurations first to ensure a proper file format and a destination application.

6.2 Checking the Button Configurations before Scanning

 Button Manager V2 runs from the system tray. After Button Manager V2 and the scanner driver are properly installed, Button Manager V2 is started and the Button icon will be displayed on the system tray at the bottom right corner of your computer screen.



2. Left-click the Button Manager V2 icon to prompt the following Button Panel.



 The Button Panel shows the first five scanning buttons. Right-click the button (function) you wish to check. The Button Properties window appears.

	Name of the Selected Button	
	Button Properties - iScan (OCR)	
Button	Basic Image Adjustment Color Dropout Image Processing More Settings	
Name	Image Mode	
Image Mode —	- Auto Paper Size: Auto Crop & Deskew	
Selection	Color Duplex	Basic Scan
Box	Orny Advanced Settings: Use TWAIN Setup	Parameters
Folder and	File Location	
file name	Directory: C:\Documents and Settings\void\My Documents\My Pictures Browse	
for the	File Name: Image_##### More	
scanned image	File Format: OCR(For iScan Only)	
Scan To	Destination: 📩 iScan 💽 Setup	
destination and settings	Description: Open your application, scan and insert the scanned image or editable text (after OCR) directly to your application.	
OCR	OCR Language: Chinese Traditional Scan Count: 0 OCR Zone: None Keyword: Sample	
settings	No. of Recognized Characters After Keyword: 5	
	OK Cancel	

If you wish to change the setting, use this window to reset the setting for the file format, destination application, or other scan settings.

4. Click the OK button to leave the window.

6.3 Scanning From One Touch of the Buttons

- 1. Adjust the paper guide for the width of paper and load the document with their tops into the automatic document feeder.
- Check the button name on the LCD screen to ensure if you are selecting the proper scan settings and destination application. (For example, if you wish to scan with Button, "Scan to App", which opens Microsoft Paint and displays the scanned image in the window of Microsoft Paint, the LCD screen should show "Scan to App").
- 3. Press the **Scan** button on the scanner.
- 4. After the scanning is finished, the Microsoft Paint software will be launched and the scanned image appears in the main window of Microsoft Paint as below.

General	Document feeding mode	Flatbec
Specifications:	Technology	
Constanting of the	Optical resolution	
	Scanning speed	
	RAM	
	ADF min. paper size	4.5 incl
	ADF max. paper size	8.5 inc
	Flatbed max. paper size	8.5 inch
	ADF capacity	
	Operation environment	10
	Storage environment	-2
	Noise	
	Dimensions(H x W x D)	
	Weight	
Сору	First copy out	Color mod
Specifications:	Color copy speed	
	B/W copy speed	
	Copy resolution	
	Copy scaling	
	Multiple copies	

Note:

- 1. For details information on how to use the Button Manager V2, please refer to the user's manual in the supplied CD.
- 2. You may also use Button Manager V2 on your desktop by starting Button Manager V2 from All Programs or double clicking the Avision Scanner Utility from the Control Panel.

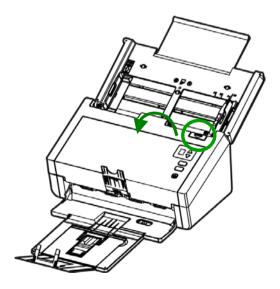
7. Maintenance

7.1 Cleaning the ADF

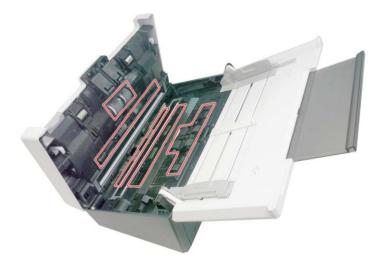
From time to time, the Reverse roller and the Feeding Rollers may be contaminated with ink, toner particles, or paper dust. In this case, the paper may not be fed smoothly. Please follow the following steps to clean the Reverse roller and the Feeding Rollers to ensure the best of the scanner.

The Cleaning Steps:

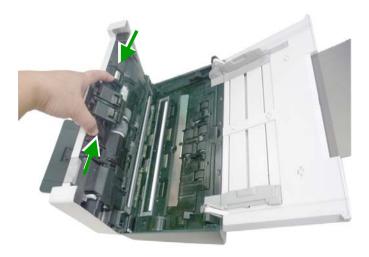
- 1. Soak a clean cloth with some isopropyl alcohol (95%).
- 2. Press the ADF release button and open the front door.

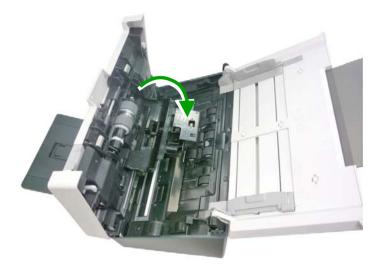


3. Wipe the feeding rollers until they are cleaned.



4. Press both sides of the cover of the ADF reverse roller and pull the cover down.





5. Press and wipe the rollers one by one. Rotate the roller until the surfaces are completely cleaned.



7.2 Cleaning the Glass

- 1. Press the ADF release button. Open the front door.
- 2. Wet a clean cloth with some isopropyl alcohol. (95%)
- 3. Wipe the glass as illustrated below by moving the swab from side to side to rid the dust or dirt.

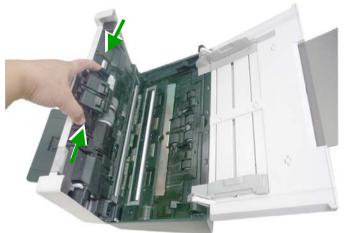


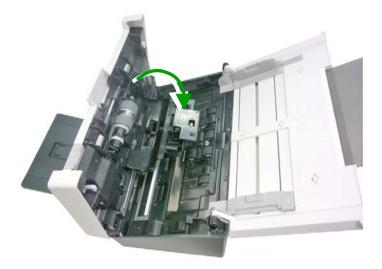
7.3 Replacing the ADF Reverse Roller

After scanning approximately 100,000 pages through the ADF, the reverse roller will be worn out and you may have problems with document feeding. It is time to replace the Reverse roller. For ordering the replacement, please contact your dealer.

Disassembling Procedure

- 1. Press the ADF release button.
- 2. Gently open the ADF front door to the left.
- 3. Hold the reverse roller cover with your fingers as shown and place it down.



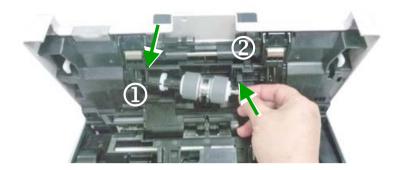


4. Press the right end of the reverse roller externally to detach it from the slot and then detach the left end from its hole.

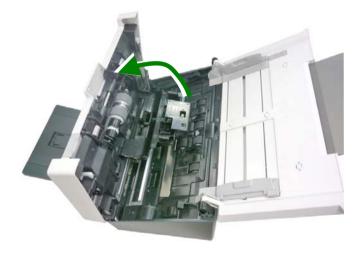


Reassembling Procedure

- 1. Insert the left end of the reverse roller to the hole of its original place.
- 2. Insert the right end of the reverse roller to its slot.



3. Close the reverse roller Cover.



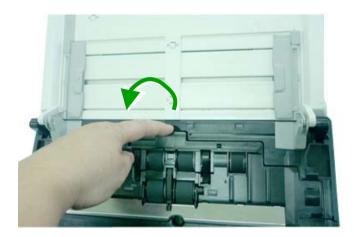
4. Close the ADF cover.

7.4 Replacing the ADF Roller

After scanning approximately 200,000 pages through the ADF, the ADF roller may be worn out and you may experience problems with document feeding. In this case, you may need to replace a new ADF roller. For ordering the ADF roller, please consult your nearest dealer and follow the procedure below to replace it.

Disassembling Procedure

- 1. Press the ADF release button to open the front door.
- 2. Pull the center of the roller cover to open it.

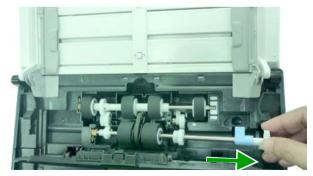


3. Move the tab of the ADF roller **DOWN** as indicated.





4. Detach the right end of the ADF roller from the slot and remove the ADF roller.



Assembling Procedure

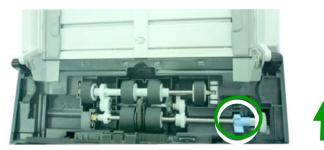
1. Insert the left end of the ADF roller first to its slot and place the ADF roller to its proper position.

Make sure the belt in the center of the ADF roller is installed horizontally with the other rollers as indicated.



The Belt

2. Move the tab of the ADF roller **UP**.





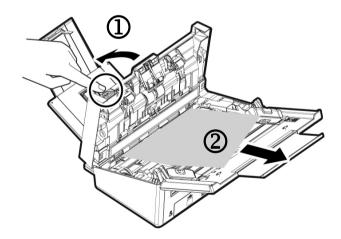
3. Close the ADF roller cover. A snap-in sound could be heard if correctly installed.

8. Troubleshooting

8.1 Clearing a Paper Jam

In the event of a paper jam, follow the procedures below to remove the paper:

- 1. Press the ADF release button on the right side. Gently open the front door.
- 2. Carefully pull the paper out of the ADF unit.
- 3. Close the front door. Your Scanner is now ready to use.
- 4.



8.2 Questions and Answers

Question:	Paper becomes jammed during scanning.
Answer:	 Open the front door. Pull out the jammed paper carefully. Close the front door.
Question:	More than one sheet of paper are fed into the scanner.
Answer:	 Open the scanner front door. Remove the multi-fed sheets. Close the front door. Flatten the corners and edges. Loosen the paper before putting it into the paper guide again. Check the feeding roller condition. If necessary, follow the cleaning directions in section 7.1 and perform the cleaning.
Question:	Paper becomes skewed in the scanner.
Answer:	 Use the slide guide to keep the paper path straight. Check the condition of the feeding roller. If necessary, follow the cleaning directions in Section 7.1 and perform the cleaning.

Question:	Why does my scanned image always come out too dark?
Answer:	 Please adjust the screen settings to sRGB. Please adjust the brightness settings on the screen from application software.
Question:	When I choose optical resolution to be 600 dpi, the "auto crop" and "deskew" functions will be disabled.
Answer:	Since to perform auto crop and deskew consumes great deal of system memory, it is suggested if you wish to perform "auto crop" and "deskew" functions, please choose your optical resolution to be smaller than 600 dpi to prevent a error message.

8.3 Technical Service

Before contacting Avision, please prepare the following information by referring to Section 4.14, The Information Tab:

- Scanner serial & revision number (located on the bottom of the scanner);
- Hardware configuration (e.g., your host CPU type, RAM size, free disk space, display card, interface card);
- The name and version of your scanning software application;
- The version of your scanner driver.

Please call us at:

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9. Specifications

All specifications are subject to change without notice. For the most up-to-date and detailed specifications, please refer to our web site at http://www.avision.com

Model Number :	FL-1313B (Duplex Scanner) FL-1406B (Simplex Scanner)
Optical Resolution:	600 dpi
Scanning Modes:	Black & White
	Gray
	Color
ADF Capacity:	Up to 80 pages (75 g/m ²) (20 lb.)
Max. Document Size:	216 x 356 mm (8.5 x 14 in.)
Min. Document Size:	50 x 50 mm (2 x 2 in.)
Paper Weight:	27 ~ 413 g/m² (7 ~ 110 lb.)
ID Card Thickness:	<1.25 mm (0.05 in.)
Interface:	Hi-speed USB 2.0
Power Source:	24V, 2.0A
Operating Temperature:	10°C~35°C
Dimensions: (WxDxH)	
Min.	316 x 191 x 168 mm
	(12.4 x 7.5 x 6.6 in.)
Max.	316 x 680 x 239 mm
	(12.4 x 26.8 x 9.4 in.)
Weight:	4.2 kg (9.3 lb.)

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