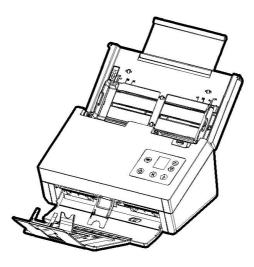


Document Scanner

User's Manual



Regulatory model: FF-1901B/ FF-1902B

Avision Inc.

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Warranty

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Avision makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of fitness for a particular purpose.

Avision shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

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 2014/35/EC
- EMC Directive 2014/30/EC
- Restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU
- RED (Radio Equipment Directive) (2014/53/EC)

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.

*Note

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 3.1 Gen 1(compatible with USB 2.0/3.0)
Compatible Operating System:	Microsoft Windows 7, Windows 8 (32 bits/64 bits), Windows 10 (32 bits/64 bits), Windows 11

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.
▲ CAUTION	Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

∆ WARNING

- 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.

▲ CAUTION:

Do not attempt to operate the battery in temperature outside the range of -20°~60° C. If so, this may cause cracking, rupturing, bursting, emission of flame or expulsion of molten metal to the outside of the equipment enclosure.
Note the the operating temperature for the battery is from

Note the the operating temperature for the battery is from - 20° to 60° C and the operating temperature for the product is from 10° to 35° C.

- 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.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device is intended only for OEM integrators under the following conditions:

1) The antenna must be installed such that 20 cm is maintained between the antenna and users.

2) The transmitter module may not be co-located with any other transmitter or antenna.

IMPORTANT NOTICE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be

installed and operated with minimum distance 20cm between the radiator & your body. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

IC Notice:

Operation is subject to the following two conditions:1) This device may not cause interference and2) This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Règlementd' Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

(1) Ce périphérique ne doit pas causer d'interférence et.

(2) Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

Wired (Ethernet) and Wireless (Wi-Fi) Networks:

The availability of these features varies according to your product model.

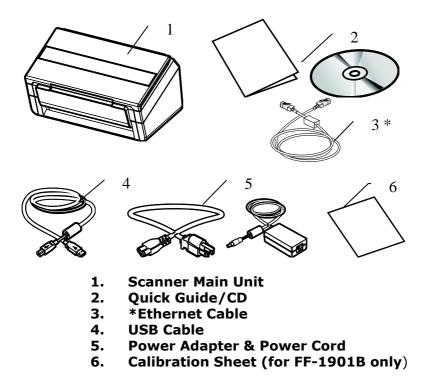
1. Introduction

Congratulations on your purchase of the high speed document image scanner. With this scanner, you can you scan your multi-page documents from the auto document feeder at a rated speed to increase your efficiency.

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

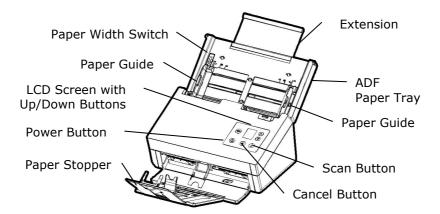
The following figure indicates the package contents. Please check all the items against your checklist. If you do not receive all the items, please contact your authorized local dealer immediately.



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.
- 4. *: Availability varies due to scanner model.

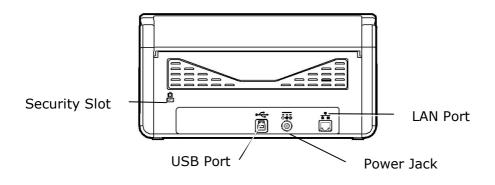
1.2 Front View



Part Name	Description
Extension	Can be pulled out and adjusted to the size of the document being scanned.
Paper Width Switch	Slide it up or down to fit your paper size.
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.

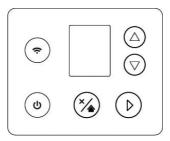
Document Cover	Open it to place the document on the glass platen.
Paper Stopper	Adjust to the length of the documents to prevent them from falling apart.

1.3 Rear View



Item	Description
LAN Port	Used to connect to network.
Power Jack	Connect the AC adapter to the scanner.
USB Port	Connect to your computer.
Kensington Security Slot	Attach to a lock to secure the scanner.

1.4 Control Panel

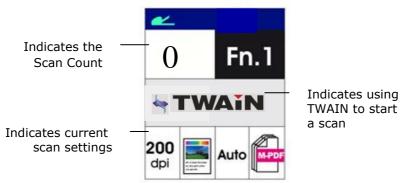


Item	Description
	 Display the scanning and error status. Display using TWAIN or Button Manager V2 and its function.
	Used to scroll up and down to select your function button via the software application - Button Manager V2.
	Press to start a scan via the software application - Button Manager V2.
*⁄	 → Press to cancel a scanning job during operation. → Press to return to the home screen.
٩	 → Press to turn on the power. → Long press to turn off the power.
?	 → Press 2 seconds to turn on or off the Wi-Fi connection. → Turn solidly on in blue to indicate Wi-Fi connection is ready.

Wired (Ethernet) and Wireless (Wi-Fi) Networks: The availability of these features varies according to your product model.

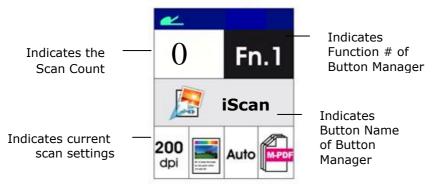
1.5 LCD Display

After installing the scanner driver and connecting the scanner to your computer, the following LCD display will be prompted:



Refer to chapter 4 – <u>Using Avision Properties Dialog Box</u> on how to start a scan with TWAIN user interface.

After installing scanner driver, Button Manager software application, and connecting the scanner to your computer, the following LCD display will be prompted:

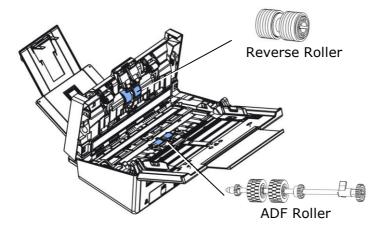


Refer to chapter 6 – <u>Using the Button</u> on how to press the button to complete a scan.

Status Bar

Icon	Name	LED Light Co	olor/Status Indication
((為))	Wi-Fi Mode	(仮) No Display	Successful Connection No Wi-Fi USB dongle
**	Ethernet Mode	No Display	Successful Connection No connection of the wired network cable.
~	Auto Document Feeder Mode	~	A green icon indicates there is paper in the Auto Document Feeder. A white icon indicates no paper in Auto Document Feeder.

1.6 Removable Parts



2. Scanner Installation

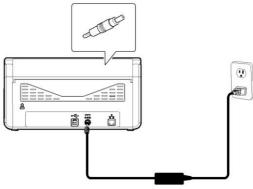
2.1 Precautions

- 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 Connecting to Power

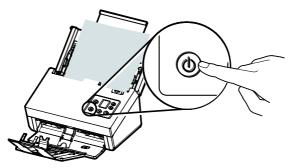
Before connecting, make sure the power switch is off.

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



2.3 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.



2.4 Installing the Scanner Driver

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



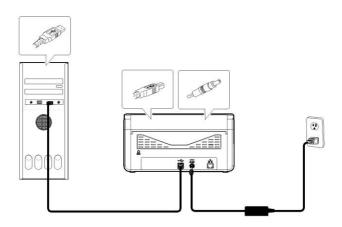
Contents on the installation graphic:

- **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 Virtual Scanner Link**: To connect your computer to the scanner in the network, you need to install the Network Setup Tool. *Virtual Scanner Link: The availability varies according to scanner model.
- **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.

2.5 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.

Note: The scanner is designed with a USB 3.1 interface to ensure the optimal speed. If your computer comes with a USB 3.1 port, make sure to connect the scanner to your computer to the USB 3.1 port which is distinguished in blue color at the back of your computer. The USB 3.1 port enhances your scanning speed and is also compatible with USB 2.0 and USB 1.1.



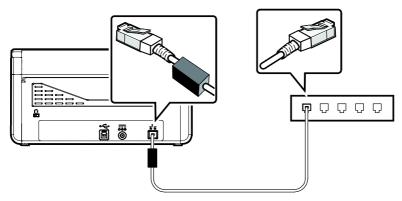
- 2. The computer should detect a new USB device and prompt a **"New Hardware Found"** message.
- 3. By following the on-screen instructions, click the **Next** button to continue. When the certification screen appears, click **Continue Anyway** to complete the installation.
- 4. When the **Finish**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

2.6 Connecting a Network Cable

1. Connect one end of your network cable to an available port of the switching hub of your LAN.



Connect the other end to the LAN port marked at the back of the product as shown.



2.7 Using the Network Scanner for the First Time

Before connecting to the network scanner, make sure that Virtual Scanner Link (Network Setup Tool) has been installed onto your computer. The Network Setup Tool is included in the supplied software CD.

 Start [Virtual Scanner Link] by choosing Start>All Programs>Avision Virtual Scanner>Virtual Scanner Link. The main window will be displayed and the scanners in your network will be searched automatically. In a few seconds, the result including the scanner model and scanner's IP address will be displayed as shown.

irtual Sci	anner Link		Refresh	Settings
vision	ADXXX	Avision-7E5C	2C18AE657E5C	<u>10.1.23.22</u>

 Choose the scanner you wish to connect and then press [Connect]. If connection is successful, a connection mark will be displayed as shown.

virtual Sci	anner Link		Refresh	Settings
Avrion	ADXXX	Avision-7E5C	2C18AE657E5C	10.1.23.22

3. After the scanner has been connected successfully, launch your TWAIN-compliant image-editing software application to start a scan (Figure A).

Or simply press the \bigcirc [Scan] button on the scanner to start a scan (Figure B).

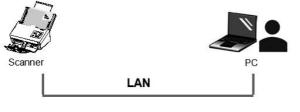


Figure A

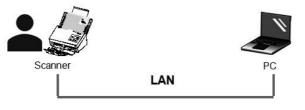


Figure B

Note:

- The VSL program allows multiple users to connect to the network scanner at anytime. Yet, the scanner operation can be used by one user at a time. If the network scanner is being used by other user, you will be prompted with a message to connect the scanner later. When the scanner is available, you will also be prompted with a message to connect the scanner and start scanning your document.
- If the network scanner has not been found, it is probably the scanner and your computer are not in the same LAN. In this case, you can assign a specific IP address of the scanner to let [Virtual Scanner Link] automatically search the scanner. Click the [Option] (1)button, type your IP address on the [Searching Address] field, then click the [+] (2) button and finally click [OK] (3) to complete.



- Searching Time: When the program is launched, it automatically searches the scanner in the network in 5 seconds (default). The searching time can be changed from a range of 5 to 20 seconds.
- If the [Virtual Scanner Link] program has been closed and then launched again, [Virtual Scanner Link] will automatically search and connect the network scanner it has previously connected to.
- The connection is always enabled, whether the scanner enters into the sleeping mode or turns off and on again. VSL will automatically detect the previously connected scanner and connect again.

2.8 How to Switch to Another Computer on the Network Scanner

Please follow these steps to connect the network scanner to other computer in the network:

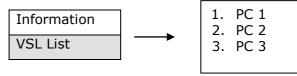
- 1. Turn on the scanner.
- Make sure that a LAN (Ethernet) cable has been connected to the scanner and that the Virtual Scanner Link (VSL) has been installed to your computer. (Refer to the preceding section 2.3~2.7)
- Start [Virtual Scanner Link] by choosing Start>All Programs>Avision Virtual Scanner>Virtual Scanner Link. The main window will be displayed and the scanners in your network will be searched automatically.
- On the scanner, press (▷) + (Scan+ Cancel/Home buttons) at the same time. The following options will be displayed in the screen.



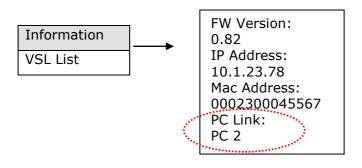
Information

VSL List

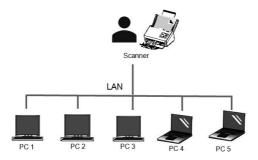
5. Use the Arrow key to select [**VSL List**] and then press (OK), all the computers (host name) in the LAN will be displayed in the screen.



- Use the Arrow key to select the computer you want to connect and then press (OK).
- 7. The scanner starts connecting to the computer.
- Repeat step 4 and select [Information]. The product information including firmware version, IP address, Mac address, PC Link will be displayed in the screen. If connection is successful, the correct computer name will be shown in [PC Link].



- 9. Press ^(*) to go back to the following home screen. The button profile of the computer will also be changed.
- 10. Press the (\triangleright) [Scan] button on the scanner to start a scan.



3. Completing Your First Scan

3.1 Loading Your Document in the ADF Paper Tray

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 242 x 356 mm (9.5 x 14 in.).
- Document (s) can range in weight from 27 \sim 413 g/m² (7 \sim 110 lb.)
- ID cards up to 1.25 mm thick
- Document(s) should be square or rectangular and in good condition (not fragile or worn).
- Document(s) should be free of curl, wrinkle, tears, wet ink, or punch holes.
- Document(s) should be free of staples, paper clips, paper sticky notes.

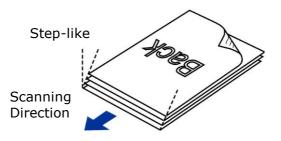
Fanning Your Document

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.

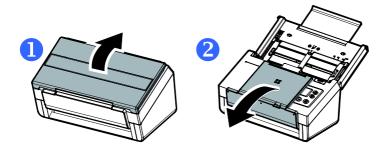


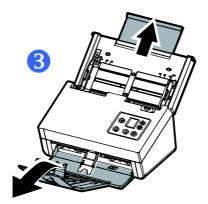
- 2. Rotate the documents by 90 degrees and fan them in the same manner.
- 3. Align the edges of the documents in a step-like pattern (see picture below).



Document Feeding

- 1. Unfold the document feeder and its extension.
- 2. Raise the paper stopper.

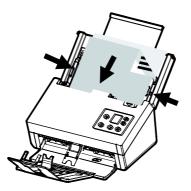




3. Raise the paper guide to hold your multi-page document.



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



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

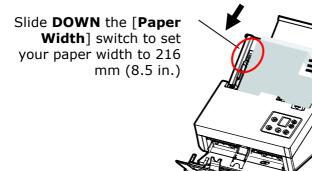
Note: The [Paper Width] switch:

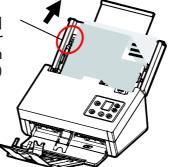
If your document width is 216 mm (8.5 in.):

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

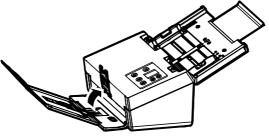
3.1.2 Scanning Thin Paper

To scan a stack of thin paper, it is recommended to raise the paper weight and then make the output tray in a flat position to keep the paper from rolling or possible paper jams due to the paper stack in the output tray.

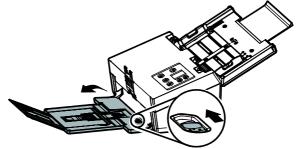
For normal document scanning, press down the paperweight and keep the output tray in an angled position to prevent paper from falling apart.

To scan thin paper,

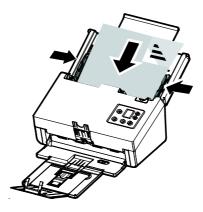
1. Lift up the paperweight as shown.



2. Slide the position adjuster of the output tray to make the output tray in a flat position.



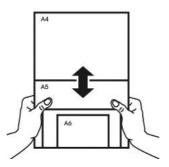
3. Load a stack of thin paper into the paper tray. Align the paper guides and make sure the edges of paper slightly touch the paper guides on both side as illustrated.



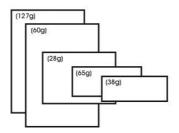
3.1.3 Scanning a Stack of Document with Various sizes and Weights

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:

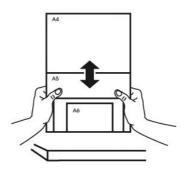
1. Align the documents **TOP EDGE** first in the sequence of paper size from large to small.



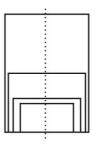
2. If two pages are of the same size yet with different weight, arrange these pages in the sequence of paper weight from heavyweight to lightweight.



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.

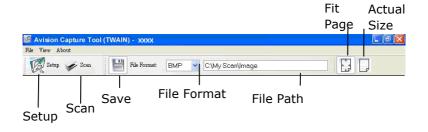
The following procedure describes how to verify your scanner installation. If the installation is not correct, please review the preceding section to check if the cable connection and scanner driver have been successfully installed.

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.

OK

2. 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.
- 4. 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 Gray Front BAW Front	Binatzation: Senativity: Brightness Contrast: Resolution (dpi): Invert:	Dynamic Threshold	• • • •
	Same settings for both sides Scan Source Profiles	Auto Document Feede	•	K 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.
- 9. In the Scan Validation dialog box, click the Scan button

(Scan) 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.

Cap ture Tool (TWAIN) -	XXXXX			
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11. You can view the scanned image in Fit Page () 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

Front Goldz Sonativity: 20 + Front Gray Bightness 0 + // Front BBW Contrast: 4 + // Bear Auto Color Detection Resolution (bp): 200 • // Rear Gray Invert: Black on White •			Dynamic Threshold	•
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	Rear Gray	Invert:	Black on White	•
Same settings for both aidee Scan Source: Auto Document Feeder Profiles Cutom	Scan Sourc			

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.

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Front B&W	Brightness:	0	4		F
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The Scanner Properties dialog box

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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.)
- 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.

Tabs •	Compression Color Dropout	-			
Close Alt+F4	Multi-Feed Detection)ynamic	Threshold	•	
Front Color	Preview Rotation Separation	20	•		•
Front B&W	Enhancement Setting		4		Þ
Rear Auto Color Detec	Imprinter	00		•	
Rear Color					
Rear Gray	Invert:	Black on	White	•	
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Same settings for both sid	Source: Auto Document Feed	er	•		

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.

nage Paper Setting I	Information				
Front Auto Color Dete	Binarization:	Dynamic	Threshold	•	
Front Color	Sensitivity:	20	4		۲
Front Gray Front B&W	Brightness:		4		Þ
Rear Auto Color Dete	((#spices/statistic))	200		•][
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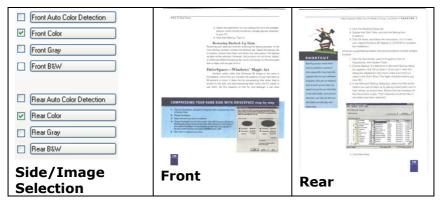
The Image tab dialog box

4.3.1 The Image Selection Box

Front Auto Color Detection	-
Front Color	li
Front Gray	,
Front B&W	1
Rear Auto Color Detection	1
Rear Color	
Rear Gray	!
Rear B&W	

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



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

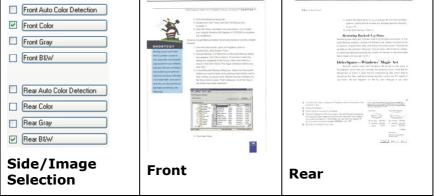
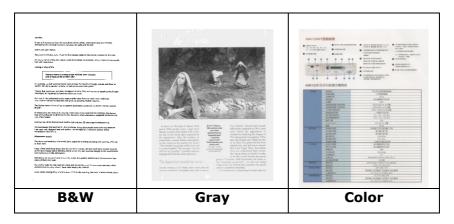


Image Type	Description
Color	Choose Color if you wish to scan a color image for your original in color.
Gray	Choose Gray image if your original contains actual shades of gray.
B&W	Choose B&W if your original contains only text, pencil or ink sketch.



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.

Modes of Auto Color Detection:

If [**Front/Rear Auto Color Detection**] is selected, its modes will be displayed. **Choice includes Normal, Ignore Paper Color.** For paper with background color such as invoices, choosing [**Ignore Paper Color**] will automatically remove the background color and enhance the detection accuracy.

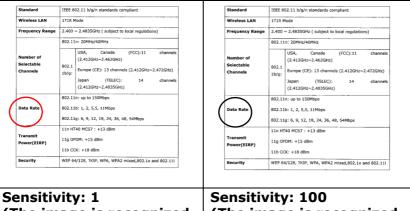
Normal	Ignore single background color
DIVOUS	DECOMPOSITION DE LA CONTRACTION DE LA CONTRACTIO

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.



Original



Sensitivity: 1Sensitivity: 100(The image is recognized
as a color one)(The image is recognized
as a black and white one)

Same settings on both sides:

Click to apply same scan settings for both sides of your documents. After checking this option, any settings you have changed will automatically applied to both the front side and the rear side. For example, if you choose your ideal resolution to be 300 dpi, this will be applied both to the front side and rear side of your document.

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, Dynamic Threshold (AD), 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.

Dynamic Threshold (AD): Selecting **Dynamic Threshold (AD)** to perform the enhanced mode of the Dynamic Threshold feature. However, using this mode may slow down your scanning speed.

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.



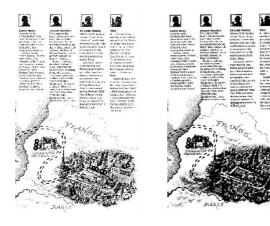
Halftone Image



Dynamic Threshold Dynamic Threshold (AD)

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

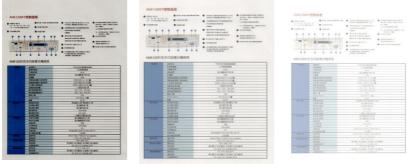


Photo



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.



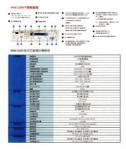
Brightness: -50

Brightness: 0 (Normal) Brightness: +50

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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 interforly proud because of good w sometimes says or does in them or through ti ord: "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 my

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

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.

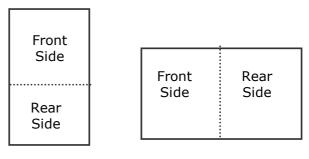
When you select Merge Two Sides into One Image, the Cropping or Multi-feed function will be disabled.

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 sheet-fed 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.

If "Merge Two Sides into One Image" is selected, its choice will be available including "Merge Horizontally", "Merge Vertically", "Merge Vertically (Back Side Flip)". If the reverse side of your document is upside down, choose "Merge Vertically (Back Side Flip)" and the back side will be automatically rotated 180 degrees and merged.



Merge Vertically

Merge Horizontally

Note the options vary based on type of scanner.

Color Matching

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

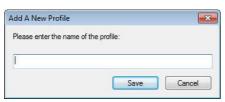
The Scanner Properties dialog box allows you to change and save your frequently used scan settings into a profile. You can edit these profiles by renaming or deleting them.

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.

Scanner Properties						
Image Paper Setting Information	an					
Front Auto Color Detection	Binarization: Sensitivity:	Dynamic Threshold	-			
Front Gray	Bighmess Contrast:	0 *				
Bear Auto Color Detection	Resolution (dpi):	200	Edit Your Profile			
Rear Gray	Invert:	Black on White	Profile:	Duplex, B&&W, 200 dpi	Add Rename	Delete Reset
Same settings for both sides Scan Source Profiles	e: Auto Document Feeder	•				Exit
Detaulta			: Cancel			

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.

Profile:	Duplex, B&&W, 200 dpi	Add	Delete
	Duples, B&W/, 200 dpi Duples, Color, 200 dpi Duples, Gray, 200 dpi Simples, B&W/, 200 dpi Simples, Color, 200 dpi Simples, Gray, 200 dpi	Rename	Reset

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.

it Your Profile			
Profile:	Flatbed	• Add	Delete
		Rename	Reset
			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.

Profile:	Betsy	- Add	Delete
	Eetsy Duplex, B&& W, 200 dpi Duplex, Color, 200 dpi Duplex, Gray, 200 dpi Flatbed Simplex, B&& W, 200 dpi Simplex, Color, 200 dpi Simplex, Gray, 200 dpi	Rename	Reset

- 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	v name of the profile:
Original Name:	Betsy
New Name:	

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.
- If any setting for a current profile has been changed, a [*] sign will be marked before the name of current profile, for example, [* Duplex, Color, 200 dpi]. If desire, click the [OK] or [Scan] button and a dialog box will be prompted to let you save the new profile.

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:

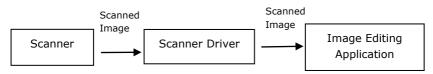
- None
- JPEG

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

- None
- G4

Compression:

To complete your scan at a rated speed, the scanned image is compressed by default during transmission. However, if you wish to obtain the highest image quality, you can choose to uncompress the image data before it is outputted.



To Application:

Choose if you wish to compress the image data and transfer it from the TWAIN driver to the application. Note 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 [**Image Quality**] slider to the right or left to increase or decrease your image quality. Note the greater the image quality, the lower the compression level. 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 the image of the compressed file will look abnormal.

From Scanner: (*Note: The availability of this feature varies due to scanner model.*)

Choose if you wish to compress the scanned image and transfer it from the scanner to the TWAIN driver.

Choice: Uncompressed, *Best Image Quality (Low Compression Level), Better Image Quality (Normal Compression Level), Normal Image Quality (High Compression Level). (*: Factory Default)

🎃 Scanner Properties		×
Image Compression Paper S	etting Information	
Front Auto Color Detection	To Application	
Front Color Front Gray Front B&W	Compression:	None -
Rear Auto Color Detection Rear Color Rear Gray Rear B&W		
	From Scenner Compression Mode:	Eest Image Quality
Defaults		OK Cancel

The Compression tab dialog box

4.5 The Color Dropout Tab

4.5.1 Color Dropout Selection

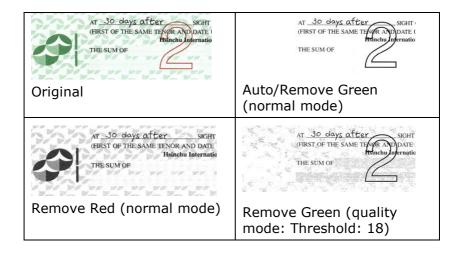
The [**Color Dropout**] tab allows you to select either green, red, blue, or a color of your choice to remove the details of the selected color from a scanned image. This feature is used to sharpen your text when using OCR (Optical Character Recognition) software. Note this feature applies only to the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

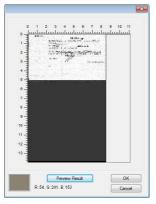
To preview the color dropout result, please follow these steps:

- 1. 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

mage	Compression	Color Dropout	Paper	Preview Setti	ing Information		
	Front Auto Color	Detection	Color Dr	opout:	None		•
	Front Color				Advanced Pro	ocessing	
	Front Gray		Mode:		Normal		¥
▼ [Front B&W		Filter Th	reshold:	10 <		Þ
_			Red;		71		
	Rear Auto Color	Detection	Green:		184		
	Rear Color		Blue:		184		
	Rear Gray				20.000		
	Rear B&W						
	Defaults					ОК	Cancel

The Color Dropout dialog box

To select a color on the Color palette,

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

Front Auto Color Detection	Color Dropout:	None	•
Front Color		Advanced Processing	
Front Gray	Mode:	Normal	*
Front B&W	Filter Threshold:	10 4	Þ
	Red	71	
Rear Auto Color Detection	Green:	184	
Rear Color	Blue:	184	
Rear Gray]		
Rear B&W	1		

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

age Comp	ression Color Dropout	Paper Preview Sett	ing Information	
Front AL	to Color Detection	Color Dropout:	Custom	•
Front Co	slor		Advanced Processing	
Front Gr	ay	Mode:	Normal	*
Front B&	W)	Filter Threshold:	10 4	۴
		Red:	136 🖈	
	to Color Detection	Green:	129 🚔	
Rear Co	lor	Blue:	119 🜩	
Rear Gr	ay			
Rear B&	W			
			Preview Window	

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

mage	Compression	Color Dropout	Paper	Preview	Setting	Information		
	Front Auto Color	Detection	Color Dr	opout:		Custom		•
	Front Color					Advanced Proc	bessing	
	Front Gray		Mode:			Normal		*
	Front B&W		Filter Th	reshold:		10 4		•
			Red:			82 🔹	-	
	Rear Auto Color	Detection	Green:			193 🌲		
	Rear Color		Blue:			62 🜩		
	Rear Gray						+	
	Rear B&W							
						Preview Window		

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).

Cropping: Scan Area:	Automatic		1.475.71	
Constant	Containy the Access managem		•	
Press Access	Carrier Sheet Mo	ode		
Scan Area;	None		÷	
	Portrait	Landscap	be	
	X-Offset:	0.00	Width:	8.50
	Y-Offset:	0.00	Length:	14.00
Adjustment:	Left:	0.00	Top:	0.00
	Right:	0.00	Bottom:	0.00
Background Setting:	White Background	•]	
Unit:	Inches	-	1	
Feeding				
Transport Timeout:		•	0 Seconds	
Transport Timeout.		,	U SECONDA	
Defaults				OK Cance

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 Multiple	This option allows you to place various 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 Document	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 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 center-fed 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.

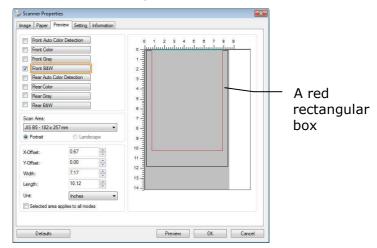
The Adjustment option is available when **Automatic** is selected.

 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)

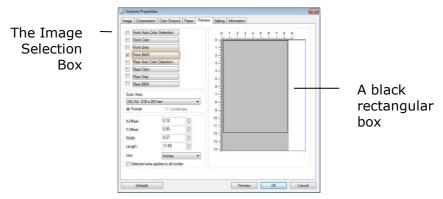
This option allows you to crop different areas on your documents and deliver these images in B&W, Gray, or Color separately. For example, there are applications which require you to store the entire document in B&W and a part of the document in color to save storage space. This is useful for documents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

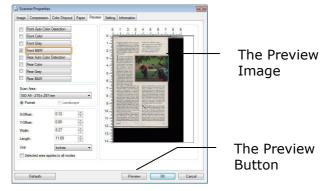
- 1. On the Paper tab, choose "Relative to Document" or "Fixed to Transport" from the Cropping option.
- Choose your scan size from the Scan Area option. The selected scan size will be displayed in a red rectangular box. This is also the scan size of your entire document. (For example, ISO B5. If you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



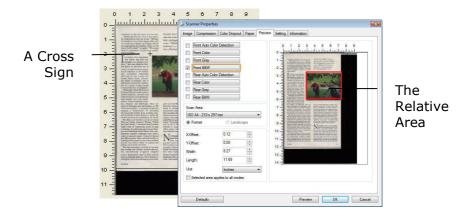
3. Click the Preview tab to display the Preview window. A black rectangular box appears to indicate the max. scan size your have just selected.



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



- 5. 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.
- Click the Scan button to start scanning the document in 8. two image types and sizes. (See the result in below.)





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.

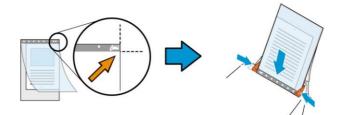


1. Open the Carrier Sheet and place the document inside.

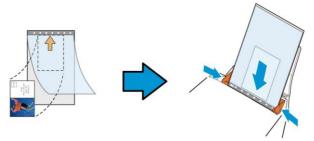
Align the top of the document to the top of the Carrier Sheet (the printed area).

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.

ge Paper Multi-Feed Detection	Preview Setting Information	
Multi-Feed Detection	ist vaoritii miloi	
Additional Length Detection:	None	
Ultrasonic Detection		
Stop Scanning after Multi-Feed		
	Auto	
Clear the Multi-Feed Paper:	Auto	
/lulti-Feed Alarm:	C:\Windows\Media\ding.wav	🔹 📢 🗧 Browse
La contra con		
Init: Inches	7	

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.

- Stop Scanning after Multi-Feed
- If this is not selected, the scanner will continue scanning the rest document though multi-feed is detected. After the entire document has been scanned, a multi-feed dialog box will be prompted to indicate the page number which has been detected multi-feed and need to be rescanned.
- If this is selected, the following options will be displayed.

Stop: If this is selected, the scanner will stop scanning after a multi-feed is detected. No further dialog box will be prompted.

Ask: If this is selected, the image of the page which has been detected multi-feed will be displayed and three options are provided.

→ Continue Scan:	If the image of the multi-feed page is acceptable, select [Continue Scan] to continue
	scanning the rest pages.

→ Continue Scan(Discard Image):	If the image of the multi-feed page is not acceptable, select [Continue Scan (Discard Image)] to scan the rest pages yet the multi-feed page will be ignored and you need to rescan the page again.
→ Stop Scan:	The scanner stop scans. Remove the remaining pages in the scanner. Remove staples or any adhesive tapes on your document. Or fan your document and rescan the rest pages.

• 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.

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.

nage	Compression	Color Dropout	Paper	Preview	Setting	Information	
	iront Auto Color iront Color iront Gray iront B&W Rear Auto Color Rear Color Rear Gray Rear B&W Area				1 2 3 4 5 6	1 2 3 4 5 6 7 5	The Display Window
_	A4 - 210 x 297	mm		•	8-	Hannell, A., Schleiner, S., Schleiner,	
Po	ortrait	Landsci	аре		9	Normality Network	
X-Offs	et:	0.12	*		10	The base and provide a set of the	
Y-Offs	set:	0.00	*		12	and an and a second secon	
Width	Ċ.	8.27			13 -		
Lengt	h:	11.69	×		14		
Unit:		Inches		-	-		
	lasted area as	plies to all mode	s				

The Preview Tab

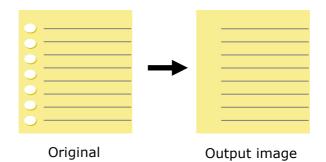
4.9 The Enhancement Tab

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

mage Paper	Multi-Feed De	etection	Preview	Enhancement	Setting	Information			
Punch Hole F	<mark>Removal</mark> ole Removal								
Background	Setting								
Background	ground Processing: None		~						
Sensitivity:		4 F		0					
Fill Color		White		*					
Despeckle Noise Numb) Black er:	0	0 Millime		Line Re	emoval 👻			
Noise Numb	er:	0	Pixels	s	None	•			
Noise Radiu	s:	1	Pixels	8		100 Millimeters			

The Option tab dialog box

PunchYou can remove punch holes from the output
scanned image when scanning punched document.HoleNote 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.

Shadow RemovalWhen 「Flatbed」 on the 「Scan
Source」 option is selected on the
「Image」 tab, the 「Shadow
Removal」 option will be enabled. Click
to remove the shadow on the book spine
when scanning a book.

	w Removal	After Shado	
علىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلىعلى<		The set of the set o	

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.



Background Processing: None



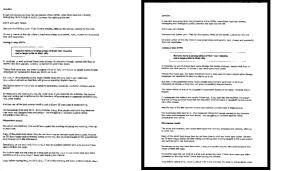
Background Processing: Smooth

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- Tainan Taiwan, R.O.C.		C. 1 Report Sports Start and a start and a sport of the start and the start start and the start and a sport of the start and the start start and the start and the start and the start and the start start and the start and the start and the start and the start start and the start and the start and the start and the start start and the start and the start and the start and the start start and the start and the start and the start and the start and the start start and the start and the start and the start and the start and the start start and the start and the star	
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	8 april 127	B040 8360 0526	21. 040
		Ship and track packages at follow com- traction of the second sec	

Background Processing: Removal Fill Color: White

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

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



Original

Edge Fill: 5mm (Black)

If you want to add a white or black frame on the edges of the scanned image, check "Edge Extension".

The default value is 0. The maximum value is half of the short side of the selected scan area. For example, if you choose an A4 size (8.26 "X11.69"), then the maximum value of the white or black box is 4.14" (half of "8.26").

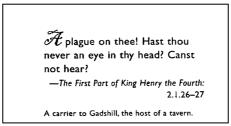
Despeckle

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.

Line Removal: When **Black and White** image mode is selected on the [**Image**] tab, the [**Line Removal**] option will be enabled. Line Removal erases lines on the image and then reconstructs characters so the OCR (Optical Character Recognition) accuracy can be improved.

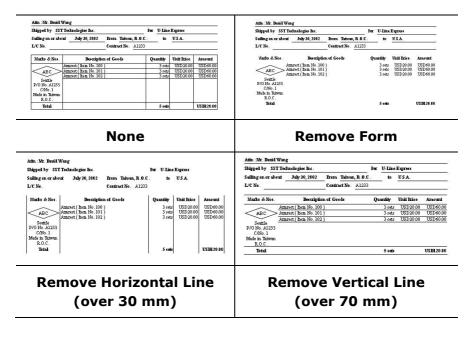
Choices: None, Form, Horizontal, Vertical

None – the default mode which does not remove any line.

Form – remove any form in the document.

Horizontal – select [**Horizontal**] and then enter the length of horizontal line to remove only the horizontal line exceeding your specified length.

Vertical – select [**Vertical**] and then enter the length of vertical line to remove only the vertical line exceeding your specified length.



4.10 The Rotation Tab

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

age	Paper	Multi-Feed Detection	Preview	Rotation	Enhancement	Setting	Infor	mation		
Rotat	tion				100 D	525 929.				
Rotation Degrees :		grees :	None 🔻		▼ M	lode:	Quick	*		
Image	e Control	Options								
Split	t Image:		None 👻							
Flip S	ide Rota	tion								
	A A e Control	Book Options			AV OF	anfold				
	0.00	options								
1	Mirror									
	Mirror									
	Mirror									
	Mirror									
	Mimor									
	Mirror									
	Mirror									
	Mirror									
	Mirror									
	Mirror									

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.

123	→
1 2 3	2
	$\boldsymbol{\omega}$
Original	Rotate 90°CW
3	173
2	
,	
Rotate 90°CCW	Rotate 180°

Auto based on contents: Automatically rotate images based on the contents of document. When **[¬] Auto based on** contents _↓ is selected, its modes will be

enabled to let you select more options. Mode: Quick, Full Text, Complexity

Quick – the default mode to let you rotate images at the fastest speed.

Full Text – the enhanced mode for documents with mixed text orientation.

Complexity – the enhanced mode yet at the slowest speed for document with complex image or text orientation.

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



Image
ControlCheck the Mirror box if you wish to reverse the right
and 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.

nage	Paper	Multi-Fee	d Detection	Preview	Rotation	Separation	Enhancement	Setting	Information	
Blank	Page R	emoval								
E	Blank Pa	pe Remova	al Threshold:				0	74 BI 16	50	%
	\$200425								8	
	de Dete	ction				÷		-		1
E	inable			Select	Barcode Ty	ype	Zone	All	v	J
Patch	code D	etection								
E	nable									

 Blank Page Removal
 Choices: None, Blank Page Removal Threshold, Image Size.
 None – Do not remove the blank pages.
 Threshold - Move the slider to the left or right to define your threshold for the blank page.
 Image Size – Range: 1~ 10000 KB. Specify your desired image size to detect the page as a blank page. For example, if 3 KB is selected, any page less than 3 KB will be recognized as blank page.

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.

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 Types:

The following barcode types can be detected.

Two-dimensional codes

- Aztec
- DataMatrix
- PDF417
- QR Code

One-dimensional barcodes:

- Add-2
- Add-5
- Australian Post 4-State
- BCD Matrix
- Codabar
- Code 128
- Code 32
- Code 39
- Code 93
- DataLogic 2 of 5
- EAN 128
- EAN-13

- EAN-8
- GS1 DataBar
- Industrial 2 of 5
- Intelligent Mail
- Interleaved 2 of 5
- Inverted 2 of 5
- IATA 2 of 5
- Matrix 2 of 5
- PostNet
- Royal Post 4-State
- UPC-A
- UPC-E

Note:

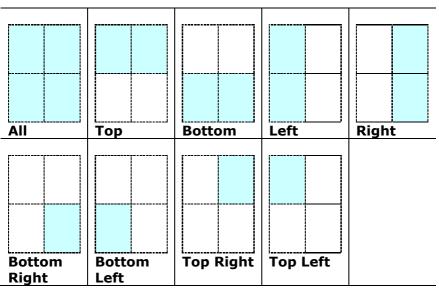
- Recommended resolution: 200~600 dpi for regular barcode, 300~600 dpi for QR code
- Skewed barcodes may not be recognized correctly.
- Using the same sheet repeatedly may decrease the recognition accuracy due to accumulated dirt on the sheets. If the sheet is not recognized correctly or gets smudged,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

Barcode Zone:

Specify the barcode zone to be detected.

Select $\lceil AII \rfloor$ to checks the whole document and detects barcodes. Or you may speed up the process by specifying a detection area since only the specified area is checked.

Choice: All, Top, Bottom, Left, Right, Bottom Right, Bottom Left, Top Right, Top Left



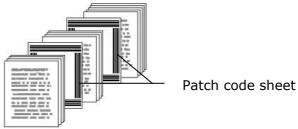
Choice for barcode zone on a page:

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.



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:

nage Paper Setting Information	
Cache Mode: Memory Size Memory Size:	*
Energy Saving Control	► Default
Enable Energy Saver Enable Power Off	 I5 minutes 240 minutes
☑ Show Scanning Progress ☑ Show Warning Message	Taba: Compression Calor Dropot. Multi-Feed Detection Preview Catation
	Separation Enhancement Imprinter
	Enhancement

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 60 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 240 minutes (4 hours). Note the value of "Power Off" has to be greater than or equal to the value of "Energy Saving".

	Madaa Nama Dawa Namahan Manaama
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.

mage Paper Setting	Imprinter	Information				
Digital Imprinter						
Content						
Print All						
Custom:						
Counter	0001		Date/Time:	None	w]Þ	
Custom Font:	Nom	ıal	*			
Advanced				Print Position		
Font Attributes:	Nom	nal	-	Position:	Middle	Ŧ
String Orientation:	Nom	ıal	-	× Offset:	0 mm	
				Y Offset	0 mm	
Sample						
0001						
					More	1
					<u></u>	2

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	Choose your desired font.
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 ori Choice: Normal, Rot Vertical Inversion, 9 degrees CCW	ated, Vertical,
	2010abc	2010abc
	Normal	Rotated
	2 0 1 0 a b c	с р О ч О ч О
	Vertical	Vertical Inversion
	2010abc	2010abc
	90 degrees CW	90 degrees CCW
	If you check the digita text on your scanned i normal and rotated str	mage, the illustration of
	2010abc	2010abc
	Normal	Rotated

Print Position	string. Move the value or 1 Range: 0~35 The value inc bottom of you	the slider to to the left to 5mm, defau licates the h ur paper to t ption is avai	eight from the he last letter of your lable only if an
		000z1abc 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.

More: Click the [More] button to display more font options. This option is available for digital imprinter (stamp text on your scanned image) only. This function is not available on some models.

Font size: Move the slider to change the font size from 1 to 10. **Density:** Move the slider to change the source density from 0 to 255. The selected density will appear at the same time.

Transparency: Move the slider to choose an appropriate transparency value from 0% (not transparent) to 100% (completely transparent) so that your text can be partially transparent and you can see the background image.

4.14 The Information Tab

The Information tab displays the following system and scanner information.

	Setting	Imprinter	Information	
			*	
			Intel(B) Core(TM) 13-2120 CPU @ 3.30GHz	
			1023 MB	
			Microsoft Windows 7 Enterprise Service Pack	1 (Build 7601)
uage:			English (United States)	
re:			Fixed drive C:\Total:30717MBFree:10439MB	
			Fixed drive Y:\Total:102398MBFree:10541ME	3
			Fixed drive Z:\Total:102398MBFree:23311ME	3
< Space	e:		10439 MB	
on Nar	me:		Avision Capture Tool 1.6 (1.9)	
Driver	Version:		6.11.0329'16	
er Vers	ion:		0, 9, 2016, 324	
e:			USB	
ress:			USB	
Resolut	ion:		600 dpi	
Model			xxx	
mber:			NO25	+
	e: Spac on Nar Driver r Vers a: ress: desolut Mode	: Space: on Name: Driver Version: r Version: e: ress: lesolution: Model:	e: Space: n Name: hvrer Version: Version: sess: lesolution: Model:	Microsoft Windows 7 Enterprise Service Pack English (United States) e: English (United States) Fixed drive 2:\Total:30717MBFree:10439MB Fixed drive 2:\Total:30273MBFree:23311ME fixed drive 2:\Total:30239MBFree:23311ME fixed drive 2:\Total:30239MBFree:23311ME fixed drive 2:\Total:10239MBFree:23311ME fixed drive 2:\Total:10239MBFree:23311ME fixed drive 2:\Total:30239MBFree:23311ME fixed drive 2:\total:302

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 the supplied QuickScan 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:

<u>M</u> ode:	Brightness	OK
Black and White	Manual C Automatic	Default
Dither:	비 비 비 128	
Halftone 4	Darken Norm Lighten	Cancel
Dots per inch:		Area
300	• • • • • • • • • • • • • • • • • • •	
Page Size:	Contrast	
A5 - 14.8 x 21.0 cm	F Manual C Automatic	
PIXDFLT Version 55.1.260.851 Avision PXN Driver V2.01.062402		

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.

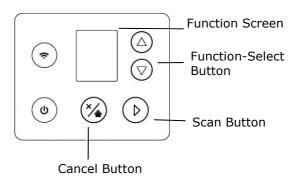
Contrast: Adjust the range between the darkest and the lightest shades in the image.

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

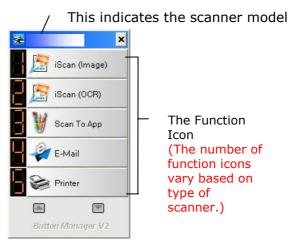
Button Manager V2 provides you an easy way to scan your document and then link the scanned image to your designated software application. All this can be done by a simple touch of the button on the scanner. Yet, before you scan, it is recommended to check the button configurations first to ensure a proper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

6.2 Checking the Button Configurations before Scanning

1. 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.

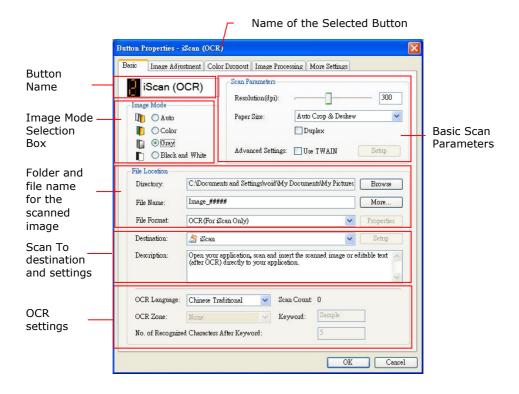


2. Left-click the Button Manager V2 icon to prompt the following Button Panel.



The Button Panel

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



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	Flatber
Specifications:	Technology	
	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. Starting a Scan from Your Mobile Device

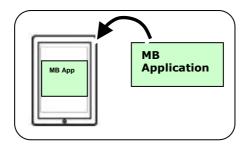
With a *Wi-Fi module, the scanner can be converted into a wireless device. When the MB App has been installed on your mobile device, the scanned images can be received from the mobile device.

*Wired (Ethernet) and Wireless (Wi-Fi) Networks: The availability of these features varies according to your product model.

7.1 Making Preparation

• MB Application

Download the **MB Application** on your mobile device from an application store such as Google Play.



7.2 Turning on Wireless Connection

After turning on the power of the scanner, the wireless connection is turned on by default. The Wi-Fi LED light will turn solidly on in blue.

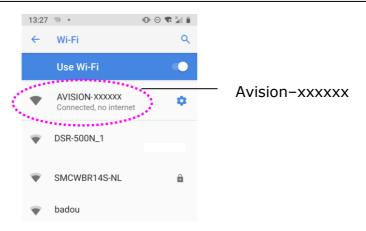
Note the product supports only the AP(Access Point) mode. This means the product itself is an Access Point and can connect wirelessly to a smartphone, tablet, or a wireless computer without a Wi-Fi router.



7.3 Starting a Scan From Your Mobile Device

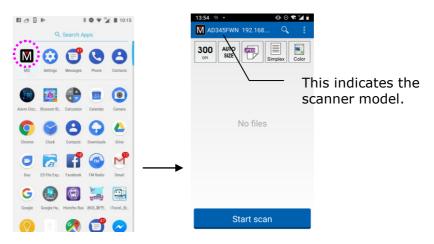
Make sure that the **MB Application** (Scan App) has been installed on your mobile device. The **MB Application** can be purchased for free from an application store such as Google Play.

1. Enable [**Wi-Fi**] from [**Settings**] of your wireless computer, smartphone, or tablet and then choose Avision-xxxxx (xxxxxx indicates the last six digits of the Mac Address at the back of the scanner) to be your Wi-Fi network (SSID).



2. Starting MB App by taping [Applications] and then the MB icon wour mobile device. The mobile device begins searching the available scanner in the wireless network.

In a second, the main screen will be displayed if scanner has been found successfully.



Note:

If the scanner is not found, please check the followings:

- The scanner is not ready yet. Tap [More Settings] and then [Search scanner] to search the scanner again.
- Check if the mobile device and the scanner are in the same wireless LAN.
- 3. Check if the default settings meet your requirements. If not, tap the setting icon and change the scan settings to fit your specific scanning task.



DESCRIPTION



Resolution: Select your desired resolution. The higher resolution, the greater the image quality and disk space.

Choice: 150, 200, *300 dpi



Scan Size: Select your paper size or you may choose Auto to let the scanner detect your document size automatically.

Choice: *Auto size, A4, LTR (Letter), LGL (Legal), 4x6, 5x7



File Format: Select the file format for your image.

Choice: *JPEG, PDF, TIFF

Note:

- The JPEG file does not support the B&W image.
- The TIFF file format supports only the B&W image.

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Select to scan the front side (simplex) or both the front side and the rear side (duplex) of your document.

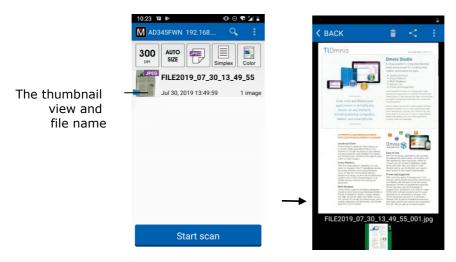
Choice: *Simplex, Duplex Note: The duplex mode is available to scan from the auto document feeder only.

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Color Mode: Select your desired image mode. Choice: *Color, B&W, Gray

* Default settings

- 4. Place your document to the scanner.
- 5. Tap the [Start scan] button to start a scan.
- 6. In a few seconds, the scanned images will be displayed in a thumbnail view. Tap the image to enlarge the image.



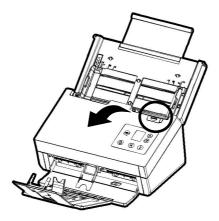
8. Maintenance

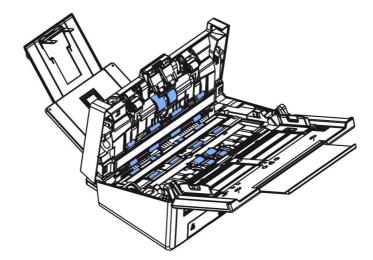
8.1 Cleaning the ADF

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:

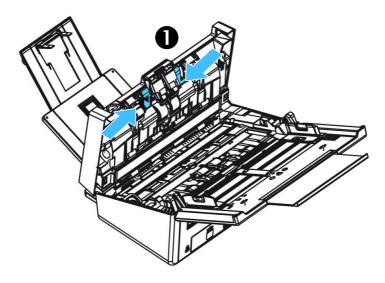
- 1. Soak a clean cloth with some isopropyl alcohol (95%).
- 2. Press the ADF release button and open the front door.

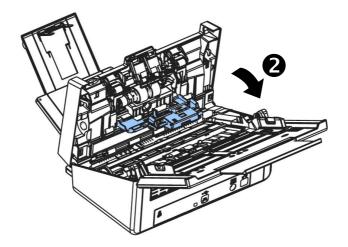




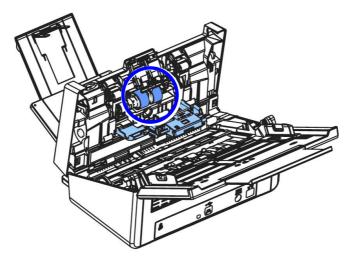
3. Wipe the feeding rollers until they are cleaned.

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



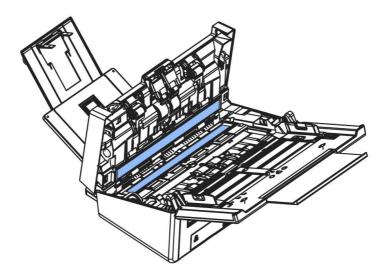


5. Press and wipe the rollers one by one. Rotate the roller until the surfaces are completely cleaned.



8.2 Cleaning the Glass

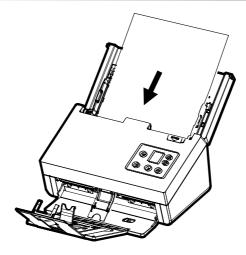
- 1. Press the ADF release button. Open the front door.
- 2. Wet a clean cloth with some isopropyl alcohol. (95%)
- 3. Wipe the glass as illustrated below by moving the swab from side to side to rid the dust or dirt.



8.3 Calibrating the Scanner

Calibrate only if the scanned image looks fuzzy, the color looks abnormal (e.g., darker than normal), after more than 8,000 scans, or the scanner has been stored without use for a long time. The calibration process resets the Contact Image Sensor to resume its color and sharpness precision.

- 1. Turn on the scanner.
- Start your TWAIN-compliant image editing software application such as Avision Capture Tool by choosing Start>Programs>Avision XXXX Scanner>Avision Capture Tool (XXXX indicates your scanner model). The Select Scanner Model dialog box will be displayed.
- 3. Select your driver type and scanner model and click OK. The Avision Capture Tool dialog box will be displayed.
- 4. Click the "**Setup**" button to prompt the TWAIN user interface.
- 5. Click the **"Settings**" tab and then click the **"Calibration**" button. An **"Insert calibration sheet**" dialog box appears.
- 6. Hold the edges of the calibration sheet *(included)* and insert it to the feeder of the scanner as shown.



Note: Only hold the edges of the calibration sheet with your fingers and do not touch the white or black area.

- Click the "OK" button on the "Insert calibration sheet" dialog box to start calibrating the scanner.
- 8. When the calibration is completed, the LED light will turn solidly on, if there is no error message, it means the calibration is completed successfully.

Warning: If the calibration process failed, the LED light will be flashing and an error message will be displayed on the screen. Power off the scanner and then repeat the calibration step again.

Warning:

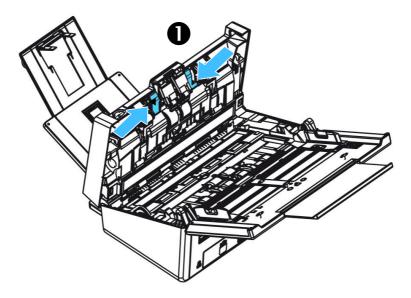
- Do not interrupt the calibration sequence or try to shut off the device while it is calibrating. If you stop the calibration before it has completed, a calibration error may occur. As a result, when you next power up the unit, an error message may be displayed, and you will have to power off the unit and repeat the instructions in this section.
- Calibrate the scanner only when color of the scanned image looks abnormal.
- Keep the calibration sheet from dust and debris. Any dirt may make the calibration chart invalid or impact the calibration result.
- Use only the included calibration sheet to calibrate the scanner.

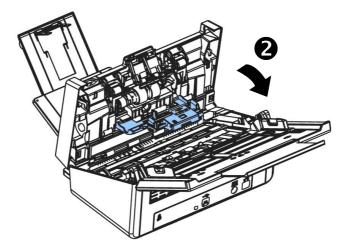
8.4 Replacing the ADF Reverse Roller

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.

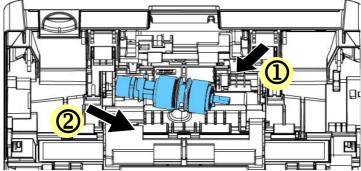
Disassembling Procedure

- 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.



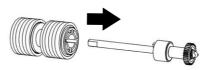
5. Remove rollers from the shaft.



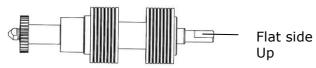


Reassembling Procedure

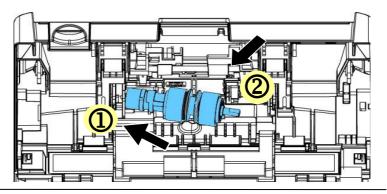
1. Insert the new rollers to the shaft.



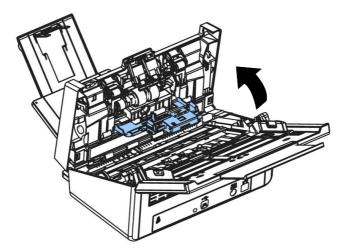
2. Grab the right end of the reverse roller (flat side facing Up) and insert it to its original place.



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



5. Close the reverse roller Cover.



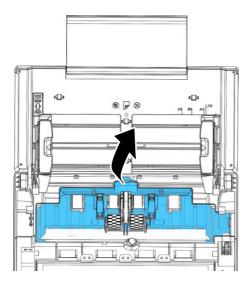
6. Close the ADF cover.

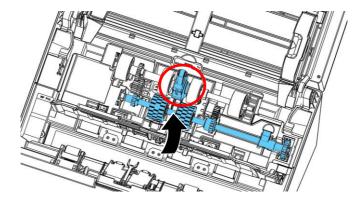
8.5 Replacing the ADF Rollers

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

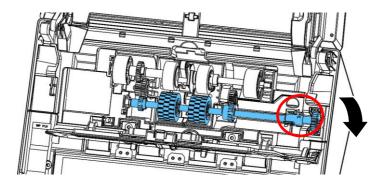
- 1. Press the ADF release button to open the front door.
- 2. Pull the center of the roller cover to open it.



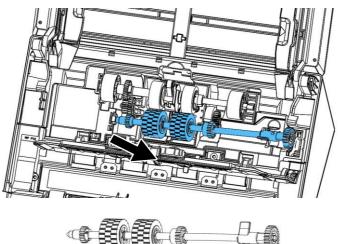


3. Move belt **UP** as indicated.

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

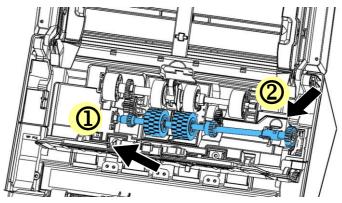


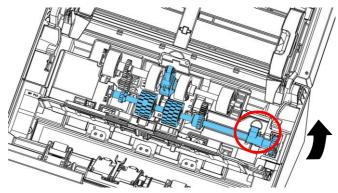
5. Detach the right end of the ADF roller from the scanner and remove the ADF roller.



Assembling Procedure

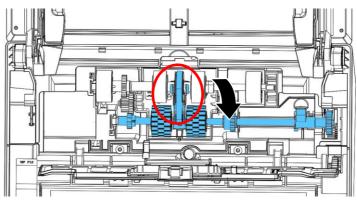
1. Insert the left end of the ADF roller first to its slot and place the ADF roller to its proper position.





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

3. Pull the belt DOWN.



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

NOTE:

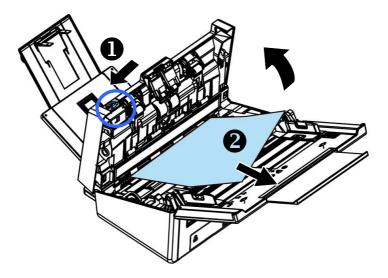
- Consumables must be replaced regularly. It is recommended to purchase new consumables in advance so that they can be replaced before the end of their life time.
- The replacement cycle is based on the use of A4 (80 g/m2 [20 lb]) wood-free paper or plain paper. The actual cycle varies according to the type of used paper and how frequently the scanner is used and cleaned.
- Use only the specified consumables.
- To purchase consumables, contact the store where you purchased the scanner or an authorized scanner service provider.

9. Troubleshooting

9.1 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.



9.2 Error Conditions

If there is error during scanning, the LED light will be flashing in red color and error drawing will be displayed. Refer to the following table to clear the error conditions.

Error Drawing/Meaning	CAUSE	How to restore
Paperjam	 Original has become stuck in the feeder. Original exceeds max. length [300 dpi: 36" (914mm), 600 dpi: 14" (356mm)] 	Open the feeder cover and pull the original out of the feeder.
Cover opens	Feeder cover opens.	Close the feeder cover.
Miss Feed	Failed to pick paper	 Fan the documents. Load the document with its edges slightly touch the paper guides.

Multi-Feed	More than one pieces of paper fed in the feeder.	 Remove the paper. Fan the paper for several times.
		3. Make sure the edge of paper near the paper guide and try again.

More than two sheets of paper are fed in the paper path.	Continue Scan	If the image of the multi-feed page is acceptable, select [Continue Scan] to continue scanning the rest pages.
	Continue Scan (Discard Image)	If the image of the multi-feed page is not acceptable, select [Continue Scan (Discard Image)] to scan the rest pages yet the multi-feed page will be ignored and you need to rescan the page again.
	[@]	The scanner stop scans. Remove the remaining pages in the scanner. Fan your document and rescan the rest pages.
	Use the Up a to select you	nd Down key (▲/▼) r action.

9.3 Questions and Answers

Question:	When the scanner is powered on, it makes noises and won't stand ready.
Answer:	There are two possibilities:
	 You might fail to push the scanner shipping lock to its "unlocked" position. If this is the case, pull the scanner status switch to its "unlocked" position first.
	2) The scanner is not placed on an even, flat desktop surface. This may cause the scanner to malfunction.

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.

9.4 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:

Headquarter

Avision Inc.

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Avision Brasil Ltda.

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10. 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 : Optical Resolution: Output Resolution:	FF-1901B/ FF-1902B 600 dpi 72 ~ 1200 dpi (adjustable by 1 dpi increments)
Scanning Modes: ADF Capacity: Max. Document Size: Min. Document Size:	Black & White / Gray / Color Up to 100 pages (80 g/m ²) (20 lb.) 242 x 356 mm (9.5 x 14 in.) 50 x 50 mm (2 x 2 in.)
Paper Weight: ID Card Thickness:	$27 \sim 413 \text{ g/m}^2$ (7 ~ 110 lb.) < 1.25 mm (compliant with the ISO7810 ID-1 type)
Interface:	USB 3.1 Gen 1, RJ-45 Ethernet 10/100/1000 Mb, Wi-Fi
Power Source:	24V, 1.5A (FF-1901B) 24V, 2.0A (FF-1902B)
Operating Temperature: Dimensions: (WxDxH):	10° C ~ 35° C
Max.	316 x 680 x 239 mm
Min.	(12.4 x 26.8 x 9.4 in.) 316 x 191 x 168 mm (12.4 x 7.5 x 6.6 in.)
Weight:	4.3 kg (9.48 lbs.)

Wi-Fi Specifications:

Model: CF-WU810N

RTL8188EUS
USB 2.0
2.412~2.484 GHz
IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
11b: 1/2/5.5/11 Mbps
11g: 6/9/12/24/36/48/54 Mbps
11n: 150 Mbps
Max. 18 dBm
WPA-PSK/WPA2-PSK
WPA/WPA2
WEP
Windows XP/Vista/7/8/8.1/10 (32/64 bit)
Max OS 10.6 ~10.11
Linux Kernel 2.6.18~3.10