

High Speed Document Scanner

User's Manual



Regulatory model: DT-0603H

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- Consult the dealer or an experienced radio/TV technician for help.

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Responsible Party:	Avision Labs, Inc.
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Table of contents

1.	INTE	RODUCTION7
2.	SCA	NNER INSTALLATION9
	2.1 2.2 2.3 2.4 2.5 2.6	PRECAUTIONS9UNLOCKING YOUR SCANNER10ADF PAPER CHUTE11CONNECTING THE CABLES13INSTALLING THE SOFTWARE13CONNECTING TO COMPUTER14
3.	coo	MPLETING YOUR FIRST SCAN16
	3.1 3.2 3.3	PLACING YOUR ORIGINAL
4.		NG THE SCANNER PROPERTIES DIALOG BOX
	4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8	BUTTONS ON THE SCANNER PROPERTIES DIALOG BOX. 22THE IMAGE TAB
5.	ISIS	INTERFACE OPERATION
6.	USI	NG THE BUTTON59
	6.1 6.2	Installing Button Manager
	6.3	THE DEFAULT BUTTON SETTINGS

	6.4 6.5	SCANNING FROM ONE TOUCH OF THE BUTTONS PERFORMING CONTINUOUS SCAN FROM THE FLATBED	
7.	CARE	AND MAINTENANCE	69
	7.1 7.2 7.3	Cleaning the ADF Replacing the ADF snap-in pad module Cleaning the Glass	71
8.	TROL	JBLESHOOTING	73
	8.1 8.2	FREQUENTLY ASKED QUESTIONS TECHNICAL SERVICE	
9.	SPEC	IFICATIONS	76

1. INTRODUCTION

Congratulations on your purchase of the Avision's A3-sized document scanner. Avision is one of the leading companies to make high quality color image scanner.

To ensure the optimum performance of the scanner, please take a few minutes to read through this manual before you install and operate the new scanner. The manual contains valuable information on how to unpack, install, operate, and maintain the scanner properly.

Figure 1-1 in below shows how the scanner is packed. Please check if all items are included. If there is any item missing or damaged, please contact your nearest dealer immediately for replacement.





- 1. Scanner main unit
- 2. Power adapter
- 3. Power cord
- 4. USB cable
- 5. User's manual/CD

Figure 1-1 Scanner Packaging

Note: When you unpack the scanner, retain the packing material and shipping box in case you may transport the scanner in the future.



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 (HEG42-240200-7L made by HiTron).
- Place the scanner securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical problems.
- Keep the shipping box and the material in case you may need to ship the scanner again.

To run the scanner at rated speed as recommended, you must have the following minimum requirements:

- IBM compatible Pentium III or later;
- Microsoft Windows 98se or later;
- One USB port installed on your computer;
- 20M bytes of available hard disk space for installation;
- 64M bytes of RAM ;
- A video graphics array (VGA 16.7 m.) monitor;
- A Microsoft Windows-compatible pointing device (e.g., the mouse);
- A CD-ROM drive.

2.2 UNLOCKING YOUR SCANNER

To protect the scanning unit from damage during transportation, a lock switch is designed at the back of the scanner to keep the scanning unit from moving. To unlock the scanner, move the lock switch up as shown in Fig. 2-1.

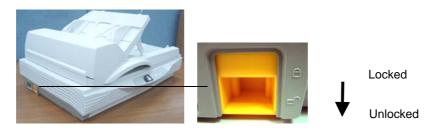


Figure 2-1 Unlocking the Scanner

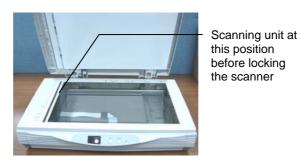


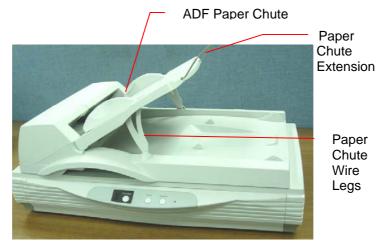
Figure 2-2 Home position

Note: If the scanning unit is not located at the front of the scanner before transporting the scanner, be sure to do the follows:

- 1. Turn on the scanner.
- 2. The scanning unit should move to the front of the scanner.
- 3. Press the lock switch down to the "Lock position".
- 4. The scanner is now ready to transport.

2.3 ADF PAPER CHUTE

- i).
- Lift the paper chute to about 45 degrees. Pull the paper-chute wire leg down to the grips on ii). the document cover.
- Slightly press the paper chute to snap the wire leg into the grips on the document cover. iii).
- iv). Pull out the paper chute extension to the length you want.



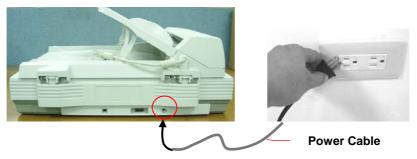


2.4 CONNECTING THE CABLES

Make sure the power of scanner is off.

2.4.1 CONNECTING TO POWER

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



2.5 INSTALLING THE SOFTWARE

NOTE:

- 1). The Windows system CD may be required when installing on some PC's.
- 2). To ensure your computer can identify the USB scanner, please install scanner driver first before connecting the scanner to your computer.
- 1. Place the supplied CD-ROM onto your CD-ROM drive.
- 2. The software installation graphic appears. If not, run "cdsetup.exe".



3. Choose **Install TWAIN Driver** to install the scanner driver.

2.6 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 of your computer.



2. The computer should detect a new USB device and prompt a "New Hardware Found" message.



(Windows 9X/Windows ME)

3. In Windows 9X or Windows ME, confirm that the "Search for a better driver." is selected and click the "Next" button.

Add New Hardware Wizard vs has found the following new hardw USB Scanner indows can automatically search for and ins at supports your hardware. If your hardware stallation media, insert it now and click. Next. What would you like to do? Automatic search for a better driver [Recommended] Specify the location of the driver (Advanced)

In Windows XP, click the **Next** button to continue. When the XP certification screen appears, click Continue Anyway to complete the installation.

- 4. When the Finish dialog is prompted, click the Finish button.
- 5. Click "View Manual" to view or print the detailed user manual for the scanner and bundled applications respectively.

Note:

To uninstall the scanner driver in Windows XP, be sure to keep your scanner connecting to your computer.



3. COOMPLETING YOUR FIRST SCAN

3.1 PLACING YOUR ORIGINAL

Open the document cover then place your original face down on the document glass as shown in Fig. 3-1.

Make sure the top of your original near the document alignment mark.



- 1. Document cover
- 2. Document alignment mark
- 3. Your original
- 4. Document glass

Figure 3-1 Placing the original

3.2 ADF SCANNING

Multiple documents can be fed automatically using the ADF.

- i). To prevent occasional paper jam when automatically feeding multiple documents, fan the paper before loading.
- ii). Place the documents face-up onto the ADF paper chute, with the leading edge in the auto feeder entrance.
- iii). Adjust the left and right guides so that they are snug against the sides of the documents.



17

Faced-up Document

3.3 SCANNING WITH IMAGE EDITING SOFTWARE

The scanner driver is not a stand-alone program, it has to be started from within a TWAIN-compliant or plug-in software application and then the scanner driver is able to scan and load the image to your computer. The command to start the scanner driver may vary due to different software applications.

- 1. Start a TWAIN compliant software application such as Roxio PhotoSuite which is bundled in the CD.
- 2. Click Get>Scanner (TWAIN).



3. Choose **the scanner model** as your scanning source. (You only need to do this once.)



- 4. Place the document **FACE DOWN** on the document glass.
- 5. Click the **Scan** button to prompt the Scanner Properties Dialog Box.
- 6. Choose your image type and the side of document you wish to scan from the Image Selection box. Click the **Scan** button to scan the document.

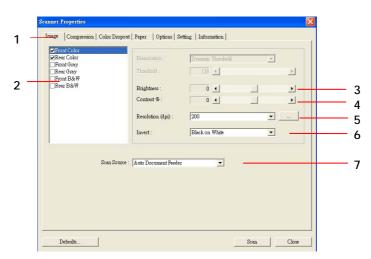
 Click Exit to return to the main screen and click Open Library and Photos at the upper-right corner to open your scanned image.

Image Selection Box	Seanner Properties Image Compression Color Dropou Proof Color Proof Daw Proof B&W Rear B&W Sean Source	t Paper Options Se Dimension : Threshold : Brightness : Contast % - Resolution (dp) : Invert : Auto Document Feeder	Dynamic Threshold 122 4 0 4 200 Black on White		
	Defaults			Scan	Close





3.3.1 A GLANCE OF THE SCANNER PROPERTIES DIALOG BOX



1. Tab Options	Choice: Image, Compression, Color Dropout, Paper, 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 (This option varies based on type of scanner.)
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.

Front Color Rear Color Front Gray	Einarization : Threshold :	Dynamic Threshold	-
]Rear Gray]Front B&W]Rear B&W	Brightness : Contrast % :		> • •
	Resolution (dpi) : Invert :	200 Black on White	· · · ·
Sca	n Source : Auto Document Feeder	_	

The Scanner Properties dialog box

0	1
2	1

4.1 BUTTONS ON THE SCANNER PROPERTIES **DIALOG BOX**

✓ Front Color ✓ Rear Color Front Gray Rear Gray	Binarization : Threshold :	Dynamic Threshold	*
Front B&W Rear B&W	Brightness :		
	Contrast % : Resolution (dpi) :	200	
	Invert :	Black on White	•
Scar	a Source : Auto Document Feeder	· _	
Scar	a Source : Auto Document Feeder	•	
Scar	Source : Auto Document Feeder		

Buttons	Description
Defaults	Click the Defaults button, the factory default settings will be shown on each tab.
Scan	After all the scan settings are satisfactory, click the Scan button to start scanning your document.
Close	Click the Close button to leave the Scanner Properties dialog box.

0	0
_	-
_	_

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 Multifeed Detection : None Unit : Inch
Options	Flip Side Rotation: Book 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

The following table shows the default settings :

4.2 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.

Rear Color Front Gray	Binarization :	Dynamic Threshold	<u>+</u>
Rear Gray Rear Gray Front B&W	Threshold :	128 -	>
Rear B&W	Brightness :	0 4	•
	Contrast % :		
	Resolution (dpi) :	200	_
	Invert :	Black on White	•
Sca	n Source : Auto Document Feeder	• •	

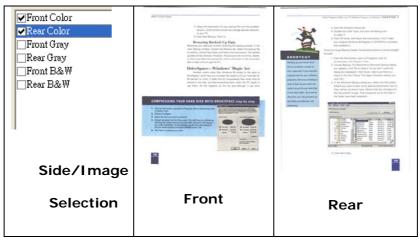
The Image tab dialog box

4.2.1 THE IMAGE SELECTION BOX



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(Drop Blue Color : Threshold : 10, Background : 79), the other in color

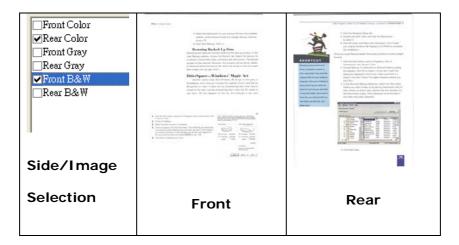


Image Type	Description
Color	Choose Color if you wish to scan a color
	image for your original in color.
Gray	Choose Gray image if your original contains
	actual shades of gray.
B&W	Choose B&W if your original contains only
	text, pencil or ink sketch.



B&W

Gray

Color

4.2.2 OTHER IMAGE OPTIONS

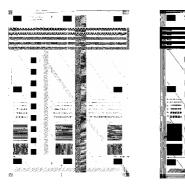
Binarization This is the process of converting a grayscale or color image to a bi-tonal image. There are several different methods of performing this conversion. Two of the options are Dynamic Threshold and Fixed Processing.

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.

Fixed Processing: Used for black-andwhite and other high contrast documents. A single level is set to determine the black-and-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.

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.

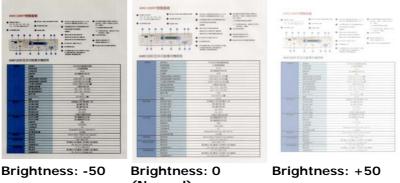
Adjust the threshold setting by dragging the Threshold sliding bar to the left or right to achieve the desired threshold setting.



200 dpi, Threshold:80, Brightness: 0

200 dpi, Threshold:170, Brightness: 0

- Adjusts the lightness or darkness of an **Brightness** 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. Adjusts the range between the darkest Contrast 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.



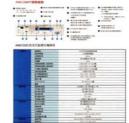


Contrast: -50

(Normal)



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.



Resolution: 75 dpi



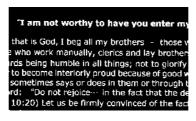
Resolution: 150 dpi

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

s 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 t ord: "Do not rejoice--- in the fact that the de : 10:20) Let us be firmly convinced of the fact

Black on White



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.

Note the options vary based on type of scanner.

4.2.3 SCANNING COLOR IMAGES

The following options are available for scanning color images.

- •Brightness
- Contrast
- Resolution
- Invert

4.2.4 SCANNING GRAYSCALE IMAGES

The following options are available for scanning gray images.

- Brightness
- •Contrast
- Resolution
- Invert

4.2.5 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 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

ZFront Color ZRear Color Front Gray Rear Gray Front B&W Rear B&W	Compression : JPEG Quality :	(None)	.

The Compression tab dialog box

36

4.4 THE COLOR DROPOUT TAB

4.4.1 COLOR DROPOUT SELECTION

Color Dropout tab allows you to drop either of the red, blue, or green color in your scanned image. If your image contains red color watermark or background, choose the R (Red) channel then any red watermark or background will be removed. This feature is used to sharpen your text when using OCR (Optical Character Recognition) software.

Note that this function supports only black & white and gray images. Therefore, be sure to choose any black & white or gray image type while applying this function.

Scanner Properties Image Compression Color I)ropout Paper Options Se	tting Information			
Front Color Rear Color Front Gray Rear Gray ✔Front B&W Rear B&W	Color Dropout : Filter Threshold : Beakground Level :	Remove Red Advanced Proces 20	sing) • •	
Defaults			Scan	Closs	

The Color Dropout dialog box

0	

4.4.2 OTHER COLOR DROPOUT OPTIONS

Advanced Processing provides two options that can adjust your scanned image in the best optimal result.

Filter	This value is used to determine the color
Threshold	which will be dropped out. A lower value
	will drop more of the selected color out,
	while a higher value will leave more of the
	selected color in.

BackgroundThe pixel which is higher than the
background value will be adjusted to the
lightest point. Adjust the value for both the
Filter Threshold and Background Level to
produce the best optimal result.

Example, slightly adjusting the background value makes your text more clear.



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Remove Blue, Threshold: 20, Background Level: 210



4.5 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 :	Automatic	T	
	🔽 Deskew		
Scan Area :	None	T	
	 Portrait 	C Landscape	
	X-Offset :	× 00.0	
	∀-Offset :		
	Width:	8.50	
	Length :	14.27 📩 🗖 Center	
OverScan :	Left:	0.00 🔺 Right :	× 00.0
	Top :	0.05 📩 Bottom :	0.05 +
Multi-Feed Detectio			
Additional Length I)etection :	(None)	
🗖 Stop Scanning a	fter Multi-Feed		
Multi-Feed Alarm :		(None)	Browse
Unit :	Inches	•	

The Paper tab dialog box

4.5.1 CROPPING

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

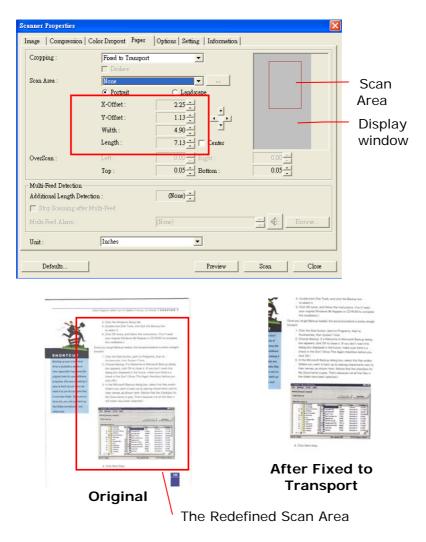
Options	Description
Automatic	Automatic adjusts the cropping window according to different document sizes. Use this option for batches of mixed-sized documents.
Fixed to Transport	This feature allows you to define the area or zone to be imaged. Use for batches of same-sized documents. If you select this 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.

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.



Example : Redefine your scan area (x-offset: 2.25 inches ; y-offset:1.13 inches)



4.5.2 OTHER PAPER SELECTION

Deskew

Use this option to automatically deskew a document.

- 网络舞蹈教室 🛞	KOHIKAN咖啡館	
天天跳舞天: 作形來跳舞!		
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Longert Control Control Pro- Control C	•	
THE PARTY OF THE P	Lariant.	100

Note: If the skew angle is too great, some of the image may be cut off.

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.

Choice: None, US Letter- 8.5" x 11", US Lega – 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.

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.

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.

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.



Example : Additional Length Detection : Set Additional Length to be 2.02 inches

Scanner Properties			×	
Image Compression	Color Dropout Paper	Options Setting Information		
Cropping :	Fixed to Transpo	rt 💌		
	🔲 Deskew			
Scan Area :	ISO A5 - 14.8 x	21 cm 🔽		
	 Portrait 	🔘 Landscape		
	X-Offset :	1.33		
	Y-Offset :	0.00	↓ ↓ —	2.02
	Width :	5.82		
	Length :	8.26 📩 🔽 Center		
OverScan :	Left:	0.00 - Right :	0.00	
	Top :	0.05 - Bottom :	0.05	
Multi-Feed Detection				
Additional Length D		2.02		
C Stop Scenning of	ter Multi-Feed			
Multi-Feed Alarm :		(None)	Browse	
Unit :	Inches			
Defaults		Preview	Scan Close	

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

• Stop Scanning after Multi-Feed

If this is selected, the scanner will stop the feeder if multi-feed is detected.

• Multi-Feed Alarm:

If this is selected and a wave file is added, the scanner will produce a sound alarm if multi-feed is detected.

How to add the sound alarm :

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

Units

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

Preview

Click the Preview button. A quick, and low-resolution scan will be made and appear in the Display window. From this image, you can determine the area you want to scan.

Cropping :	Automatic	<u> </u>	and a second second	
	✓ Deskew		THE CARLON IN THE REPORT	
Scan Area :	(None)	<u> </u>		- The
	 Portrait X-Offset : 	C Landscape	Elision and even of the black as a interaction of the second sec	Previev
	Y-Offset :			Image
	Width :	8.50		-
	Length :	14.27 📕 🗖 Center		
OverScan :	Left	0.00 - Right :	0.00	
	Top :	0.00 🕂 Bottom :	0.00	
Multi-Feed Detection	1	V		
Additional Length I	Detection :	0.00		
🔽 Stop Scanning a	fter Multi-Feed			
Multi-Feed Alarm :		(None)	Browse	
Unit :	Inches			



4.6 THE OPTIONS TAB

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

canner Properties	
Image Compression Color Dropout	Paper Options Setting Information
- Flip Side Rotation	
A C Book	AA · Fanfold
Rotation	
Rotation Degrees :	Degrees CCW
Blank Page Removal	50 %
Edge Fill	0 Millimeters
Image Control Options	
_Background Setting	
C White Background	C Black Beckground
Defaults	Scan Close

The Option tab dialog box

|--|

Flip Side
RotationThis option allows you to select the
orientation of the double-sided
documents been fed and if "fanfold" is
selected, the image of the reverse side
will be rotated to 180 degrees.

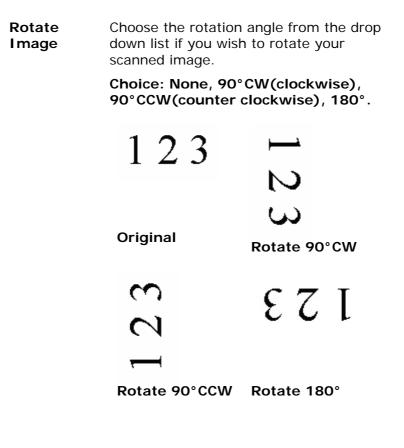
This is applied to double-sided documents which are viewed in portrait (height is greater than width) but are sometime fed into the scanner in landscape (width is greater than height) or vice versa. In this case, the image of the reverse side has to be rotated additional 180 degrees.

Choice: Book, Fanfold.

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

The following illustration shows the orientation of the document which should be viewed in portrait but is fed into the scanner in landscape

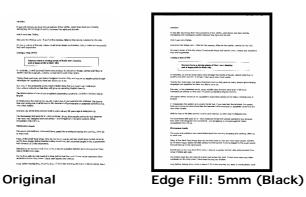




Blank Page	Check if you wish to remove the blank
Removal	page and move the slider to the left or
	right to your desired threshold.



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



Check the Mirror box if you wish to reverse the

Image Control Option

right and left side of your image.



Original



The Mirror Effect

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

*This option varies based on type of scanner and is available for the front page in the ADF (auto document feeder) only. For the rear page, only the white background is available.



White Background



Black Background

4.7 THE SETTING TAB

The Setting tab allows you to set the following settings:

Scanner Properties	
Image Compression Color Dropout Paper Options Setting Information	
Energy Saving Control	
Gerffict State	▶ 15 minutes
Batch Scan Setting	
🕫 Batch Scan 🔿 Page Scan	
 ✓ Show Scanning Progress ✓ Show Warning Message ✓ Save Settings after Closing 	
Defaults	Scan Close

The Setting tab dialog box

Energy Saving	Check the Enable Energy Saver box	
Control	and move the slider to the right to set	
	the amount of time to start the energy saver after your last action. The range is from 1 to 720 minutes. The default is 15 minutes.	

53	
00	

Batch Scan Setting	•Batch Scan To increase the scanning speed, the scanner first scans a few pages of your document and then sends these scanning data to the application. Therefore, during scanning, the numbers of pages been scanned on the scanner is somehow different with the numbers of pages displayed on your computer screen. Choose this mode if you wish to complete your scanning task at the fastest speed.
	•Page Scan If you choose Page Scan, during scanning, the scanner will first scan only one page of your document and then send the scanned data to the application and then scan the next page and send the next data to the application, and so on. Therefore, in this mode, the scanning speed is slower yet this helps to keep the same scanning progress between the scanner and your computer screen.
	Note: The option varied based on type of scanner.
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.

4.8 THE INFORMATION TAB

The Information tab displays the following system and scanner information.

Port Type: ID / Address: Optical Resolution:	USB HIGH USB 600 DPI	2
Scanner Model: Serial Number: F/W Version: Background: Born Date:	AVISION AVXXX 545TW497300045EU/UK 1.00 White Background 2005/11/9	
First Scan: ADF Pad Count: ADF Roller Count: ADF Count:	2005/12/30 0 Reset Pad Count 0 Reset Roller Count 2825	
Flatbed Count: Multifeed Count: Jam Count:	14 2	
Report	2	

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 (C:\AVxxx) will be generated. Please send this file to the nearest service center for trouble shooting.

The "Reset Pad Count" button _ :

After scanning approximately 50,000 pages (the number varies based on type of scanner) through the Auto Document Feeder (ADF), the ADF pad may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the ADF pad with a new one. (Please refer to the manual for proper replacing procedure.) For ordering the ADF pad, please consult your nearest dealer. After replacing the ADF pad, click the "**Reset Pad Count**" button to reset the pad count.

The "Reset Roller Count" button _ :

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, it is highly recommended to replace the ADF roller with a new one. 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. Please consult your nearest dealer for more details.



5. ISIS INTERFACE OPERATION

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

Mode:	Brightness	OK
Black and White Dither:	Manual C Automatic	<u>D</u> efault
Halftone 4		Cancel
Dots per inch: 300	Darken Norm Lighten -	<u>A</u> rea
Page Size:	Contrast	
A5 - 14.8 x 21.0 cm	G 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 BUTTON

The convenient buttons on the scanner is shown as below:



6.1 INSTALLING BUTTON MANAGER

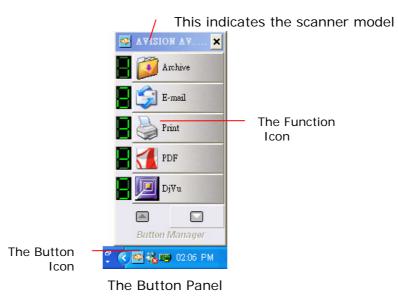
To use the buttons on the scanner, you need to install the Button Manager. To ensure the Button Manager work properly, please FIRST install Button Manager before installing the scanner driver.

Installing the Button Manager is easy. Insert the supplied CD to your CD-ROM drive and follow the instructions on the screen to complete the installation.

Button Manager 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. After the Button Manager and the scanner driver have been successfully installed on your computer, the Button Panel will be displayed in the Windows System Tray at the bottom right corner of your computer screen.



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

The button	Button Properties	Click to select – options or setting.
number and _ name.	Archive	The scan settings for the selected button. (in this case button #1).
The file format of the scanned . image.	Choose a file format: Choose a file format: Add/Delete OF PDF DY Defeults OK Cancel Apply	The destination application. (This is the application that opens after you have finished scanning.)

The default setting is indicated in highlighted color. If you wish to change the setting, use this window to reset the setting for the file format, destination application, or other scan settings. See "Configuring the Button" in the subsequent section to reset the settings.

3. Click the OK button to leave the window.

<u>62</u>

6.3 THE DEFAULT BUTTON SETTINGS

The scanner is shipped with preconfigured button settings for your basic scanning tasks such as scan-to-folder, scanto-email, and scan-to-printer. The following table shows these factory default settings. You can change any of these settings.

Button	Name	Destination	Preset Scan
Numbe		Application	Settings
r			
1	Archive	Folder	B&W@200 dpi, A4, TIFF
2	E-mail	Microsoft	Gray@200 dpi, A4,
		Outlook	JPEG
		Express	
3	Print	Printer	B&W@300 dpi, A4
4	PDF	Acrobat Reader	B&W@200 dpi, A4, PDF
5	DjVu	Document Express	B&W@300dpi, A4, DjVu
6	Scan	roxio PhotoSuite	Color@100 dpi, A4, JPEG
7	Paint	Microsoft Paint	Color@100 dpi, A4, BMP
8	OCR	Document Express	B&W@300dpi, A4, TIFF

Note:

To accurately use the default settings, you need to install the necessary software applications such as roxio PhotoSuite, Document Express, or Adobe Acrobat Reader before installing the scanner driver.

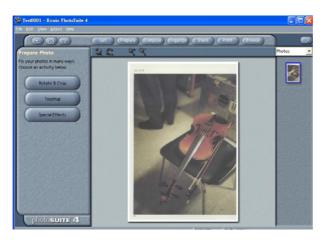
6.4 SCANNING FROM ONE TOUCH OF THE BUTTONS

- 1. Adjust the paper guide for the width of paper and load the document with their tops into the automatic document feeder.
- 2. Check the number on the LED screen to ensure if you are selecting the proper scan settings and destination application. (For example, if you want to scan with button #4, which open roxio PhotoSuite and display the scanned image in the main window of roxio PhotoSuite, the LED screen should show 4).

64

3. Press the Scan button on scanner.

4. After the scanning is finished, the roxio PhotoSuite will be launched and the scanned image appears in the main window of roxio PhotoSuite as below.



Note:

For details information on how to use the Button Manager, please refer to the user's manual in the supplied CD.

6.5 PERFORMING CONTINUOUS SCAN FROM THE FLATBED

If your scanner comes with a flatbed module, Button Manager provides you a convenient feature to perform continuous (multi-page) scan from the flatbed. Simply inserting next page of your document and then pressing the Scan button, your multi-page scan from the flatbed can be completed. This feature is particularly useful when you need to scan inside pages of a book.

To perform continuous scan from the flatbed,

- 1. Open the document cover.
- 2. Place your document with the text facing down on the glass. Make sure that the upper left corner of your document is near the home position as marked by arrow.



- 3. From the Button Properties window, choose your file format to be PDF, TIFF, or DjVu.
- 4. From the Options tab in the Button Properties window, choose "Multi-Page".



vu Options Se	ting	
Path and Folder		
Path	C:(Dutton_Date)	Browse
Folder:	Date + Time	Clean Up
File Options		
	Incom	10.100.0
	lmage 20060511-095729/image#(Auto).TIF	Serial Number
C. Wroton_Date(WultiPage No separati	20060511-095728%Image#(Avito).TIF or(one life).	Senal Number S
C. Wroton_Date(WultiPage No separati	10060511-095729/āmage#(A uto).TIF	Senal Number S
C. Wutipa Detail	20060511-095728%Image#(Avito).TIF or(one life).	Senal Number S

- Check if the number displayed in the LCD screen is your favorable setting for the scanned image. Press the Scan button on the scanner. When the scanner completes first-page scan, a "Continue or stop" dialog box appears. 5.
- 6.
- 7.

To scan next page, click "Continue". To end your scan, click "Stop".	
Continue Stop	~

- 8. Place next page of your document on the glass.
- 9. Choose "Continue" or simply press the Scan button on the scanner to scan next page.
- 10. If your scan is completed, click "Stop" to close the dialog box.

Note:

- 1. The scanner is designed to automatically set your scan source. If your scanner is equipped with both the auto document feeder and the flatbed, the scanner can automatically set your scan source whenever there is paper on the source. However, if there is paper on both the auto document feeder and the flatbed, the scanner will set auto document feeder to be the scan source.
- 2. If you choose to perform flatbed scan, the scanner can still perform "automatic crop" and "deskew" for the scanned image. However, the "Multi-feed Detection" and "Duplex" functions will be disabled.

7. CARE AND MAINTENANCE

7.1 CLEANING THE ADF

The scanner is designed to be maintenance free. However, it still needs to be cleaned occasionally to ensure optimum image quality and performance.

From time to time the pad assembly and feeding rollers may become contaminated with ink, toner particles or paper dust. In this case the scanner may not feed documents smoothly or several documents may feed at once. If this occurs please follow the cleaning procedures to return your scanner to its original state.

The cleaning procedures

- i). Moisten a cotton swab with isoprophyl alcohol (95%). (Cleaner kits are available from PictureVision.)
- ii). Carefully open the ADF to the left. Wipe the feeding rollers by moving the swab from side to side. Rotate the rollers forward with your finger and repeat the above cleaning procedures until the rollers are clean. Be careful not to snag or damage the pick springs.
- iii). Wipe the pad in the direction from top to bottom. Be careful not to hook the pick springs.
- iv). Close the ADF unit. Your scanner is now ready for use.



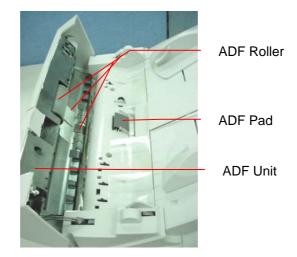


Figure 6-1 Clean the ADF unit

7.2 REPLACING THE ADF SNAP-IN PAD MODULE

After scanning approximately 20,000 pages through the ADF, the separation pad may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the pad module with a new one. For ordering the pad module, please consult your nearest dealer and follow the procedure below to replace it.

Disassembling Procedure

- 1. Open the ADF cover.
- 2. Remove the ADF snap-in pad module by pulling out the upper part of the pad clamp as shown in below.



71

ADF Pad

7.3 CLEANING THE GLASS

The procedures

- 1) Soak a cotton swab with some isopropyl alcohol. (95%)
- 2) Open the document cover as shown in Figure 6-2. Wipe the document glass by moving the swab from side to side.
- 3) Close the document cover. Your scanner is now ready for use.



1. Document glass

Figure 6-2 The cleaning area



8. TROUBLESHOOTING

If you have problems with the operation of your scanner, please check the following troubleshooting hints.

8.1 FREQUENTLY ASKED QUESTIONS

- Question: When the scanner is powered on, it makes noises and won't stand ready.
- Answer: There are two possibilities:

1) You might fail to push the scanner shipping lock to its "use" position. If this is the case, pull the scanner status switch to its "use" position first.

2) The scanner is not placed on an even, flat desktop surface. This may cause the scanner to malfunction.

- Question: The scanner is powered on, but the lamp does not light up.
- Answer: The lamp is probably out of order. Contact your local dealer or distributor to replace the lamp. For your information, the average life time of the lamp is about 15,000 hours and the operating temperature for the scanner is between 10°C(50°F) and 40°C(104°F).

- **Question:** While scanning, the scanner often makes noises, or it scans back and forth.
- Answer: Usually this means the memory of your computer is not enough or the speed of your CPU too slow.Please try to increase your memory to at least 32M or replace your CPU with Pentium or later.
- **Question:** Why is it that the scanned image always comes out to be too dark?
- Answer: 1) Modify the Gamma setting to1.8~2.2 for your monitor and, when printing, set the Gamma setting to 2.2 for your printer.
 - 2) Adjust the Brightness setting from the TWAIN user interface to get a brighter image.
- **Question:** The scanner works well except for the line art image. The lines in the image seem to be much thicker than the original one.
- **Answer:** Increase the Brightness or adjust the Threshold setting to improve line art image.

8.2 TECHNICAL SERVICE

Technical support for Avision scanner is provided at Avision Technical Assistance Center (ATAC). Before contact with ATAC, please prepare the following information.

- 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, etc.)
- The name and version of your software application
- The version of your scanner driver.

Please call us at:

Avision Inc.

Address:	No.20, Creation Road I, Science-Based
	Industrial Park, Hsinchu, Taiwan
Telephone	+886 (3) 578-2388
number:	
Fax number:	+886 (3) 577-7017
Web Site:	http://www.avision.com
E-mail:	service@avision.com.tw

9. SPECIFICATIONS

All specifications are subject to change without notice.

Model Number	DT-0603H
Scanner Type	Flatbed & ADF
Scanning Mode	Color/Grey/Black & White
Optical Resolution	600 * 600 dpi
Maximum Resolution	1200 dpi
Light Source	Cold cathode fluorescent lamp
Maximum Scanning Size	11.8″ x 17″
Interface	High Speed USB 2.0
AC Power Line	100~240Vac ,50/60Hz
Power Requirements	24Vdc, 2A (Supplied by adaptor)
Power Consumption	< 32 watts (operation)
	< 6 watts (standby)
Humidity	20% to 80% RH
Operation Temperature	10°C to 40°C
Storage Temperature Dimension	-10 to 50°C 589 x 428 x 317 mm (WxDxH)
Weight	10.3 kgs
Moigint .	1010 1095