

# Flatbed Imaging Scanner User's Manual



Regulatory model: BF-0606H

**Avision Inc.** 

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This product has been tested and found to comply with the limits for a class B digital device, pursuant to 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. The FCC Class B 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 or more 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 your point of purchase or service representative for additional suggestions.

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## 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.

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

# **System Requirements**

- > IBM compatible PC 586, Pentium or higher
- Microsoft Windows 98SE/Me/2000/XP
- ➤ USB port 2.0 (compatible with USB 1.1)
- At least 100 MB of free hard disk space
- > At least 128 MB of system memory
- ➤ A CD-ROM drive

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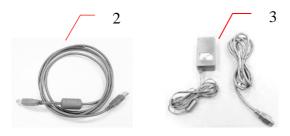
# 1. Introduction

Congratulations on your purchase of the color image flatbed scanner. With this scanner, you can quickly scan documents in duplex (double-sided) mode to increase productivity.

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

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.





- 1. Scanner Main Unit
- 2. USB Cable
- 3. Power Adapter & Power Cord

#### Note:

- 1. Only use the AC adapter (SA148A-24V by Sino-American/ HEG42-240200-7L by Hitron) 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.

# 2. Scanner Installation

#### **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.

# 2.1 Removing the shipping lock

Unlock the scanner by moving the lock switch beneath it to the "Unlock" position. (Refer to the Lock/Unlock figure on the right side.)



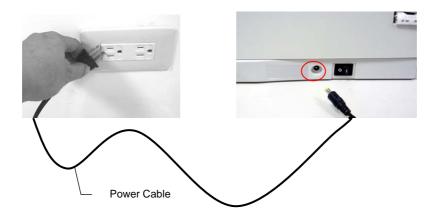
# 2.2 Installing the Scanner Driver and Cables

#### 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.

# 2.2.1 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.



# 2.2.2 Turning on the Scanner

The power is controlled by a toggle switch on the side of the scanner. To turn on the scanner, press the switch toward "1".

# 2.2.3 Installing the Scanner Driver

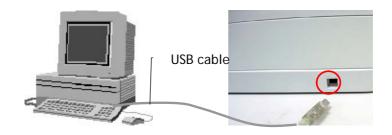
- 1. Place the supplied CD-ROM onto your CD-ROM drive.
- 2. The software installation graphic appears. If not, run "setup.exe".



3. Choose Install Scanner Driver to install the scanner driver.

# 2.2.4 Connecting to Computer

1. Connect the **square end** of the USB cable to the USB port of your scanner. Connect the **rectangle end** to the USB port 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 98SE, Windows ME, or Windows 2000, confirms that the "Search for a better driver." is selected and click the "Next" button.



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.

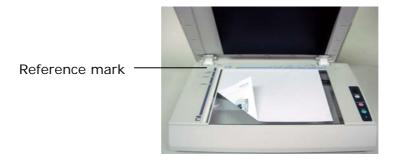
#### Note:

To uninstall the scanner driver in Windows XP or Windows 2000, be sure to keep your scanner connecting to your computer.

# 3. Completing Your First Scan

# 3.1 Loading Your Paper

Align the document to the reference mark, as indicated.



# 3.2 Verifying Your Scanner Installation

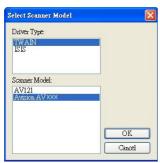
To verify if your scanner installation is correct, Avision provides you a useful test program called Avision Capture Tool. With this tool, you can perform simple scans and view the captured images. In addition, it helps you complete your scan at a rated speed.

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.

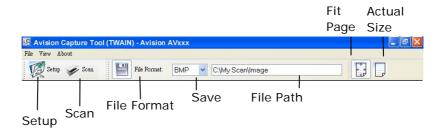
Before you begin, be sure the scanner is on.

1. Select Start>Programs>Avision AVxxx Scanner>Avision Capture Tool.

The Select Scanner Model dialog box will be displayed.



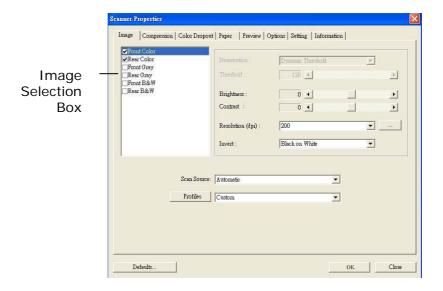
Select your driver type and scanner model and click OK. The following Avision Capture Tool dialog box will be displayed.



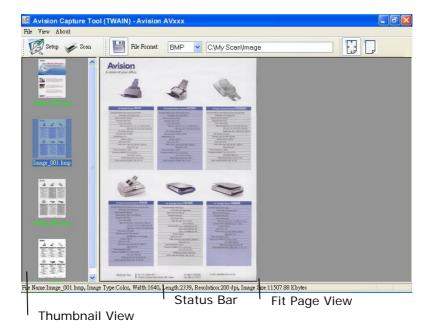
- 3. Choose your desired file format from the File Format drop down list box. (Default is BMP, other choice includes TIFF, GIF, and JPEG.)
- 4. Type your desired folder name and file name in the File Path box. (Default is C:\My Scan\Image.)

**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.

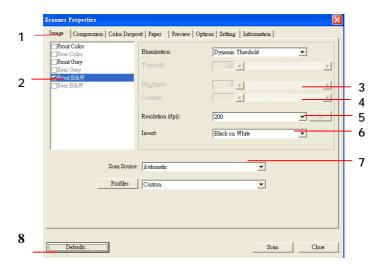


- 6. From the Image Selection Box, choose your desired image type for your scanned image. (Default is Front B&W) If you have a duplex scanner, choose Front and Rear to scan both sides of your document.
- 7. Click OK to quit the Scanner Properties dialog box. (To learn more details about the Scanner Properties 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 ( or choose Scan from the File menu.
- 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.



- 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.

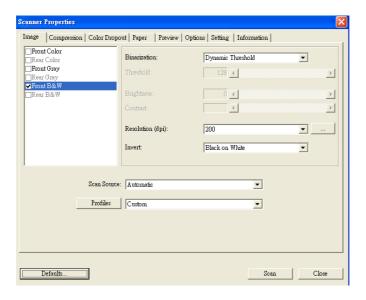
# 3.3 A Glance of the Scanner Properties Dialog Box



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 (varies due to different scanner model)	
8. Defaults	Reset all values on the tabs to the factory default settings.	

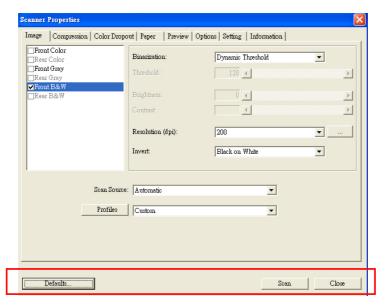
# 4. Using the Scanner Properties Dialog Box

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.



The Scanner Properties dialog box

# 4.1 Buttons on the Scanner Properties Dialog Box



The buttons on the Scanner Properties dialog box

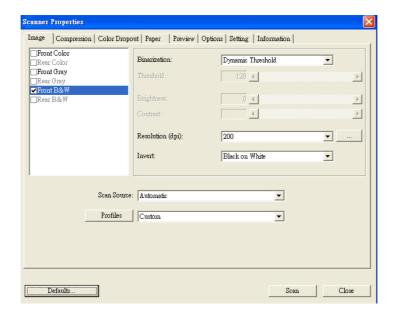
Buttons	Description
Defaults	Click the <b>Defaults</b> button, the factory default settings will be shown on each tab.
Scan	After all the scan settings are satisfactory, click the <b>Scan</b> button to start scanning your document.
Close	Click the <b>Close</b> button to leave the Scanner Properties dialog 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 Multifeed Detection: None Unit: Inch	
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	

## 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.



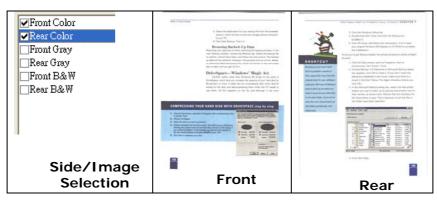
The Image tab dialog box

## 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

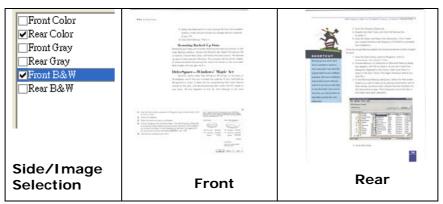


Image Type	Description	
Color	Choose Color if you wish to scan a color	
	image for your original in color.	
Gray	Choose Gray image if your original contains	
	actual shades of gray.	
B&W	Choose B&W if your original contains only text	
	pencil or ink sketch.	

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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-and-white 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.

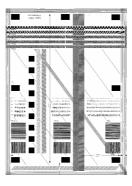
#### Quality

When you choose "Gray" to be your image type, the "Binarization" item will be changed to "Quality" and its option includes "High" and "Normal". Choose "High" to enhance your image and make your image look brighter.

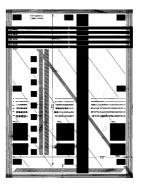
## Threshold

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

## **Brightness**

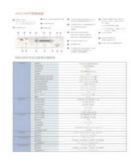
Adjusts the lightness or darkness of an image. The higher the value, the brighter the image. Drag the slider to the right or left to increase or decrease the brightness. The range is from -100 to +100.

#### 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.







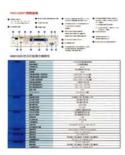
Brightness: -50

Brightness: 0 (Normal)

Brightness: +50







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.



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 we who work manually, clerics and lay brothers ards being humble in all things; not to glorify to become interlorly proud because of good we sometimes says or does in them or through the 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 ver who work manually, clerics and lay brother rds being humble in all things; not to glorify to become interlorly proud because of good we sometimes says or does in them or through the rd; "Do not rejoice... in the fact that the definition of the fact that the definition of

White on Black

## Scan Source

#### Choice:

- 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

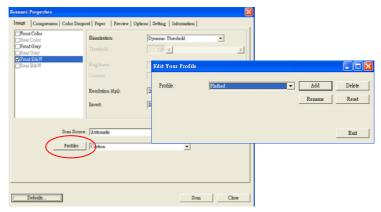
- Binarization (Fix Processing)
- Threshold
- Brightness
- Resolution
- Invert

#### 4.2.6 Editing Profiles

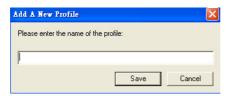
The Scanner Properties dialog box allows you to change and save your frequently used scan settings into a profile. You can edit these profiles by renaming or deleting them.

## 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.



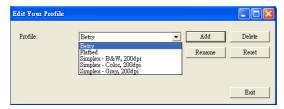
3. Click "Add" to enter the name of the profile and then choose "Save".



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

#### To load a profile,

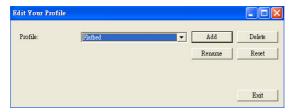
1. From the Image tab dialog box, choose your favorable profile from the "Profiles" dropdown list box.



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

# To delete a profile,

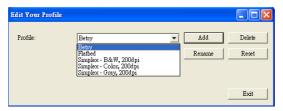
1. From the Image tab dialog box, click "Profiles" to prompt the Edit Your Profile dialog box.



- 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.



- 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.



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

### Note:

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

## 4.3 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.

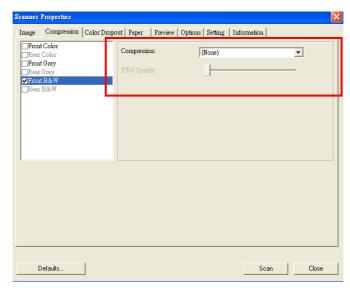
JPEG (Joint Photographic Editor Group). This group developed and lent their name to a file compression standard for color and grayscale images that is widely used by scanners, and software applications. On Microsoft Windows-based systems, a file with the extension .jpg has normally been compressed using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

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

- None
- JPFG

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

- None
- G4



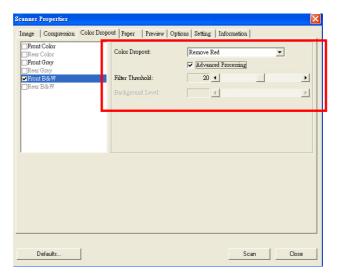
The Compression tab dialog box

# 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.



The Color Dropout dialog box

# 4.4.2 Other Color Dropout Options

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

# Filter Threshold

This value is used to determine the color 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.

# Background Level

The 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.



Original



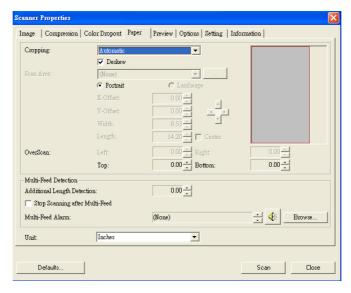
Remove Blue, Threshold: 20, Background: 255

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# 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).



The Paper tab dialog box

# 4.5.1 Cropping

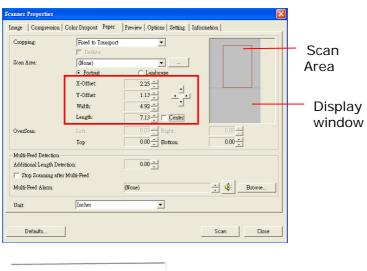
Cropping allows you to capture a portion of the document being scanned. Choice: Automatic, Fixed to Transport, EOP (End of Page) Detection.

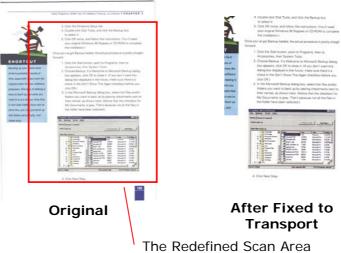
Options	Description
Automatic	Automatic adjusts the cropping window according to different document sizes. Use this option for batches of mixed-sized documents.
Fixed to Transport	This feature allows you to define the area or zone to be imaged. Use for batches of same-sized documents. If you select this 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 centerfed feeding based upon document size selected.
- relocate the scan area by click the arrow key on the cross sign while retain the scan size. View the result from the Display window.

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.



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 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.

### Long Page:

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. Options: Unlimited, Enter Length (Note: This option varies due to type of scanner.)

Choose "Unlimited" if you have a batch of long page document with unknown length. Choose "Enter Length" to enter the length and width of your documents or your desired scan size on documents. This is useful when you have a batch of documents with the same scan size or a batch of same-sized documents.

#### **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.

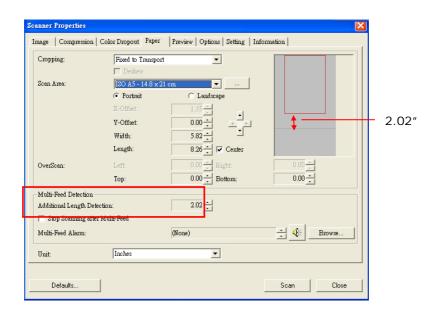
#### **Multi-Feed Detection**

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**



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 multifeed is detected.
- Sound Alarm on Multi-Feed:

  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.

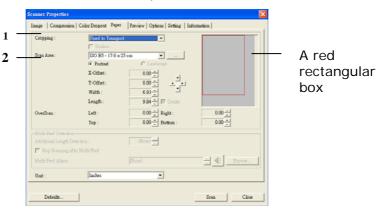
#### 4.5.3 Relative to Document

**Relative to Document:** (used for batches of same-sized documents)

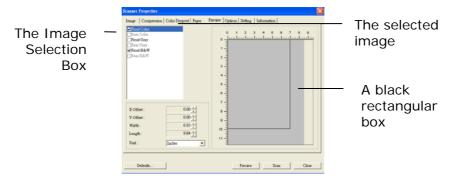
This option allows you to crop different areas on your documents and deliver these images in B&W, Gray, or Color separately. For example, there are applications which require you to store the entire document in B&W and a part of the document in color to save storage space. This is useful for documents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

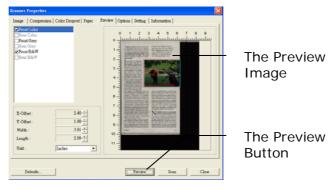
- 1. On the Paper tab, choose "Relative to Document" or "Fixed to Transport" from the Cropping option.
- Choose your scan size from the Scan Area option. The selected scan size will be displayed in a red rectangular box. This is also the scan size of your entire document. (For example, ISO B5. If you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



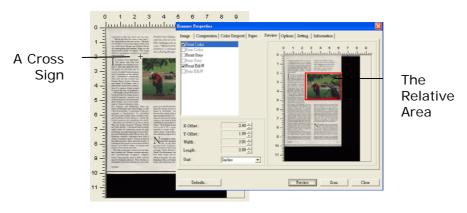
3. Click the Preview tab to display the Preview window. A black rectangular box appears to indicate the max. scan size your have just selected.



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)
- 6. 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.



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



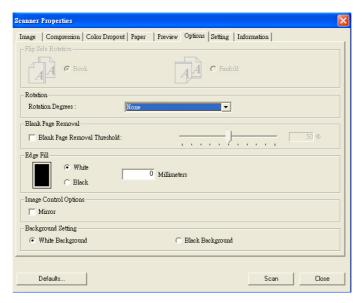


The entire document in B&W

The relative area in color

# 4.6 The Options Tab

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



The Option tab dialog box

# Flip Side Rotation

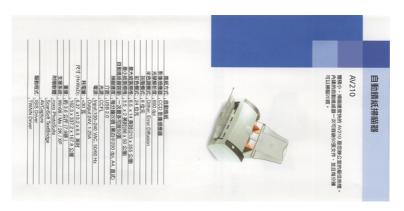
Select "fanfold" to rotate the image of the reverse side to 180 degrees.

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



# **Rotate Image**

Choose the rotation angle from the drop down list if you wish to rotate your scanned image.

Choice: None, 90°CW(clockwise), 90°CCW(counter clockwise), 180°.

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# Blank Page Removal

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

90°CCW

# Edge Fill

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



persons.

Let the control and the control and

Original

Edge Fill: 5mm (Black)

# I mage Control Option

Check the Mirror box if you wish to reverse the right and left side of your image.



Original



The Mirror Effect

Background Setting This 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.



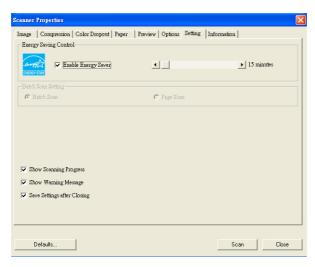
White Background



Black Background

# 4.7 The Setting Tab

The Setting tab allows you to set the following settings:



The Setting tab dialog box

Energy Saving	Check the <b>Enable Energy Saver</b> 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.	

# 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 availability of this feature varies based on type of scanner.

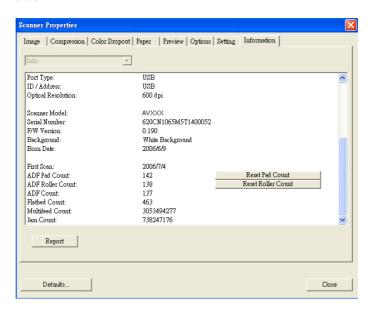
# Show Scanning Progress

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.



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 (the number varies based on type of scanner) 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.

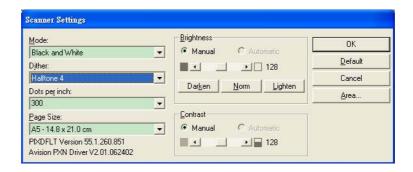
#### Note:

The lifetime and the replacing procedure vary based on type of scanner. Please consult your nearest dealer for more details.

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# 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:** 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.

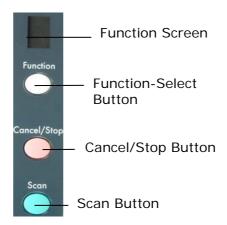
**Default:** Click to reset all settings.

Area: Select your desired scan area or position.

# 6. Using the Buttons

The following picture shows the 3 buttons and 1 function screen on the scanner.





## 6.1 Installing Button Manager

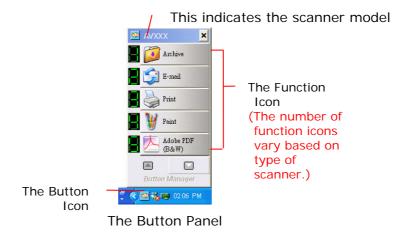
To use the buttons on the scanner, you need to install the Button Manager. To ensure the Button Manager work properly, please FIRST install Button Manager before installing the scanner driver.

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 of the Button Manager.

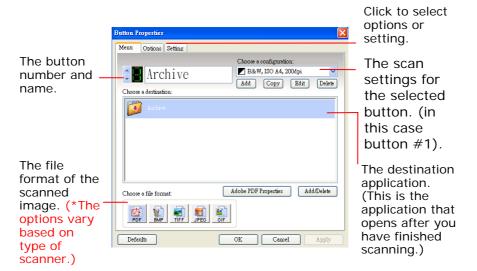
Button Manager provides you an easy way to scan your document and then link the scanned image to your designated software application. All this can be done by a simple touch of the button on the scanner. Yet, before you scan, it is recommended to check the button configurations first to ensure a proper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

## 6.2 Checking the Button Configurations Before Scanning

- 1. Click the Scan button on the scanner.
- 2. The Button Panel is displayed in the Windows System Tray at the bottom right corner of your computer screen.



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

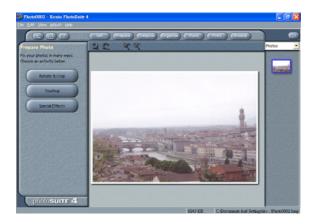


The default setting is indicated in highlighted color. If you wish to change the setting, use this window to reset the setting for the file format, destination application, or other scan settings. See "Configuring the Button" in the subsequent section to reset the settings.

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.
- 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).
- 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.

# 7. CARE AND MAINTENANCE

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



1. Document glass

# 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 to 1.8~2.2 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.

**Question:** When I choose optical resolution to be 650 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 an error message.

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# 9. 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:

# US and Canada Area: Avision Labs. Inc.

Address: 6815 Mowry Ave. Newark CA 94560,

**USA** 

Telephone +1 (510) 739-2369

number:

Fax number: +1 (510) 739-6060
Web Site: http://www.avision.com
E-mail: support@avision-labs.com

Other Area: Avision Inc.

Address: No.20, Creation Road I, Science-

Based Industrial Park, Hsinchu,

Taiwan, R.O.C.

Telephone +886 (3) 578-2388

number:

Fax number: +886 (3) 577-7017
Web Site: http://www.avision.com
Email: service@avision.com.tw

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# 10. Specifications

# All specifications are subject to change without notice.

	DE 0/0/11
Model Name	BF-0606H
Scanner Type	Flatbed Desktop scanner
Scanning Mode	24-bit color
	256 shades of gray scale
	Line Art
	Error Diffusion
Optical Resolution	600 dpi
Light Source	Cold cathode fluorescent
	lamp
Scanning Document	8.5"x 11.69"
Size	
Interface	USB 2.0
Power Requirements	24Vdc,1.25A
Power Consumption	< 36W
Operation Temperature	5 °C to 35 °C
Storage Temperature	-40 °C to 60 °C
Dimension	288mm x 480mm x 115mm
	(WxDxH)
Weight	6.38 kgs