

Vina
BulletScan™
S300

**Hybrid Sheetfed and Mobile
Scanner**

User's Manual

Aug 2010



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

System Requirements

- Microsoft Windows XP/Vista/7
 - 1.2 GHz CPU or greater *
 - 512 MB RAM for Windows XP (2+ GB RAM recommended)
 - 1 GB RAM for Windows Vista and 7 (2+ GB RAM recommended)
 - 500 MB available on the Hard Drive for complete software installation
 - USB 2.0 Port
 - CD-Rom drive
 - Display supporting full color (32 bit) at 800 x 600
- * File conversion speeds and OCR performance are linked to CPU speed. The faster the processor, the better the results.

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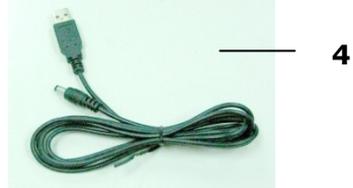
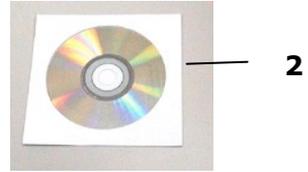
1. Introduction

Congratulations on your purchase of the BulletScan S300 document scanner.

With this scanner, you can quickly scan documents both at your desk and on the road 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. Quick guide/CD
3. USB cable
4. USB power cable
5. Power adapter

Note:

1. Only use the **BulletScan Type 1 AC adapter** (HEG42-240100-7L by HITRON / DA-24C24 by ADP) 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 a properly grounded 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.

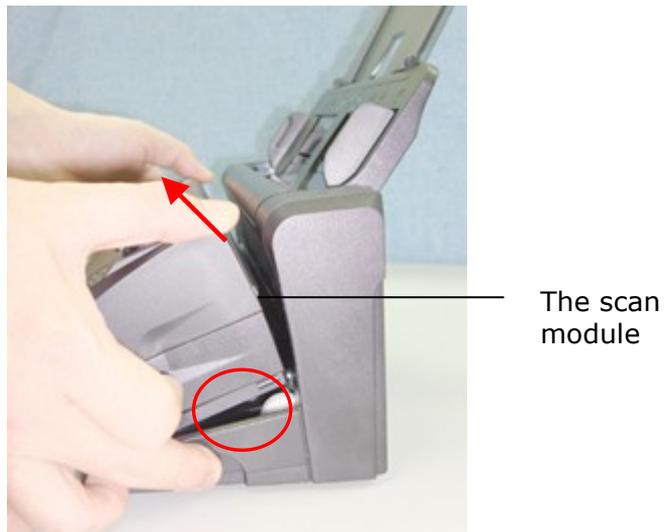


2.1 Docking the Scan Module

The scan module is detachable from the automatic document feeder. The scan module without the automatic document feeder can be conveniently carried around.

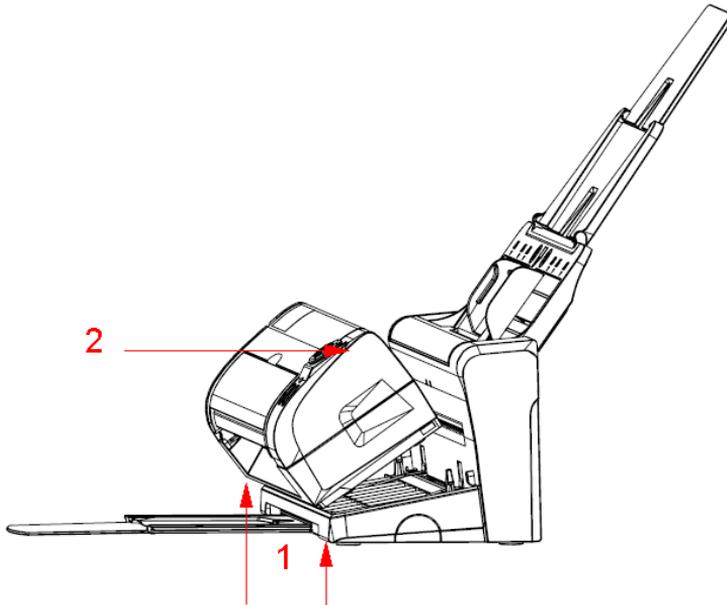
Ejection Steps:

Press the release button on bottom right corner and lift up the scan module. The scan module can be easily removed.



Docking Steps:

To dock the S300 scan module, line up the front edge of the scan module with the front edge of the docks (1). Tilt the scan module gently back and everything should snap into place (2).



Important:

When first unpacking the S300, make sure to remove the protective foam between the Scan Module and the Dock.

2.2 Installing the Scanner Driver and Cables

Note:

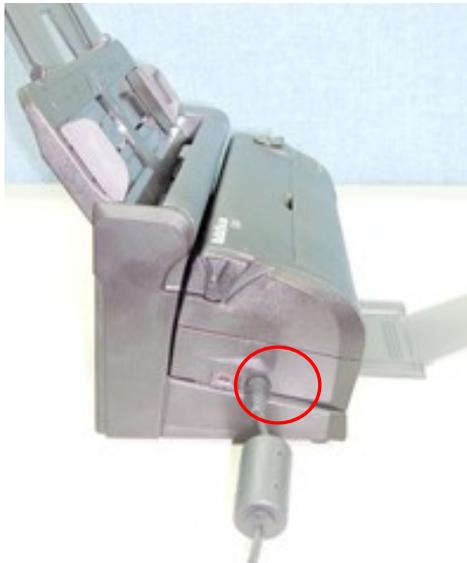
1. To ensure your computer can identify the scanner, please install scanner driver first before connecting the scanner to your computer.

2.2.1 Connecting to Power

There are two ways of powering the scanner.

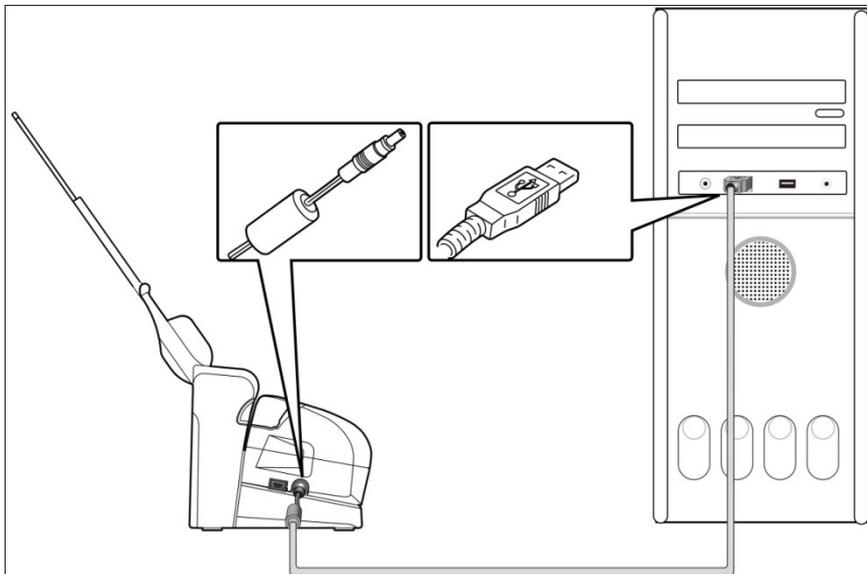
(1) Supplying the power with the BulletScan type 1 power adaptor

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) Supplying the power from a computer via a USB power cable

Plug the **circle end** of the USB cable for power into the power jack of your scanner. Connect the **rectangle end** to the USB port of your computer.



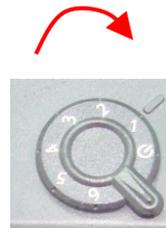
Notice:

Powering the scanner through the USB power cable will require an extra USB port on your computer or a port on a powered USB hub.

When using USB power only, the scan speed is reduced.

2.2.2 Turning on the Scanner

Turn the knob on the scanner clockwise to select any number to turn on the scanner. The blue LED will be on.



Note:

Each of the number marks (1, 2, 3, 4, 5, 6) corresponds to its respective destination in the BulletScan Manager. Please refer to the BulletScan Manager Manual for more details.

2.2.3 Turning off the Scanner

To turn off the scanner, turn the knob to make the blue pointer points to the power off mark as indicated below.

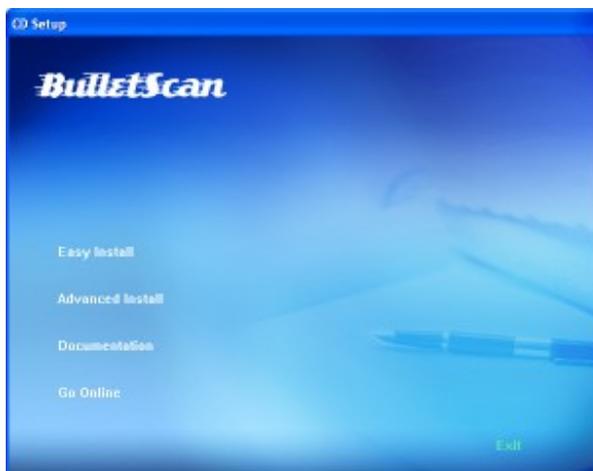


2.2.4 Installing the Software

Note:

For best results, install the software and driver from the CD before connecting the scanner.

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

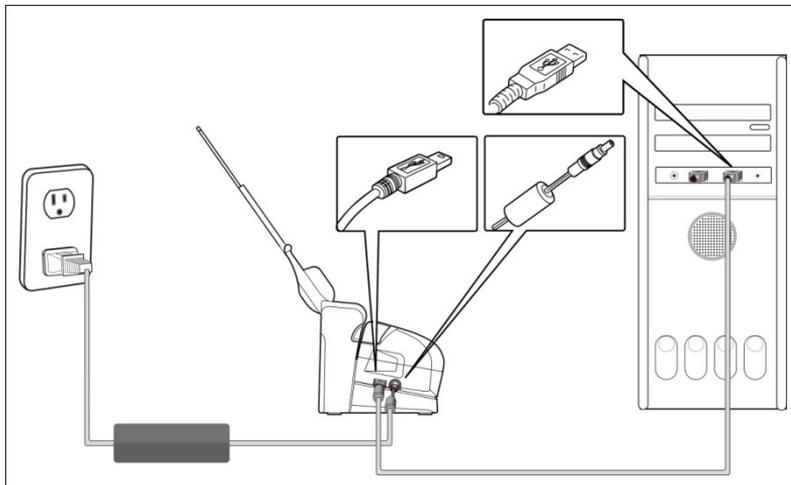


Contents on the installation disc:

- **Easy Install:** Click to install all bundled software including scanner driver, BulletScan Manager, NewSoft Presto! PageManager, and NewSoft Presto! Bizcard Reader.
- **Advanced Install:** Choose for a selective installation.
- **Documentation:** Click to view quick install guide, scanner manual, BulletScan Manager manual and other software manual.
- **Go Online:** Click to go online to the Bulletsan.com website.

2.2.5 Connecting to Computer

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



2. The computer should detect a new USB device and prompt a **"New Hardware Found"** message.
3. In Windows XP, installation will continue automatically. In Windows Vista and 7, click the **Finish Installing Software** option, and then click **Continue** button to complete the installation.
4. If you are prompted with a **Finish** dialog, click the **Finish** button.
5. If Windows fails to install your scanner, power off your scanner, shut down your computer, connect your scanner to a different USB port on the computer, and restart your computer. Power the scanner back on when your computer is done rebooting.

3. Completing Your First Scan

3.1 Loading Your Document

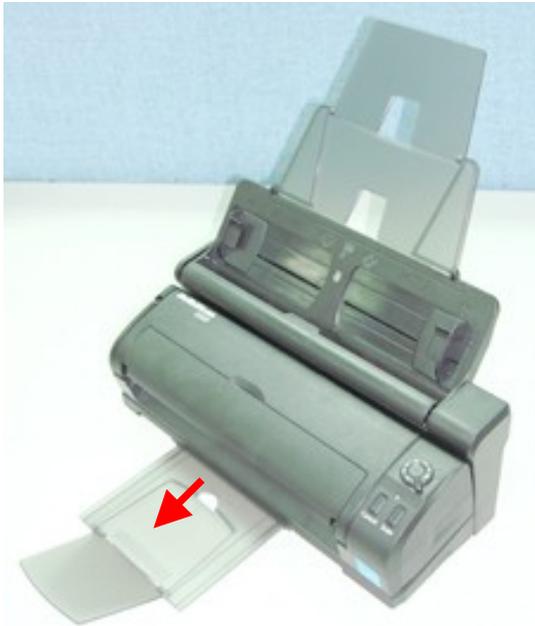
3.1.1 Tips on Using the ADF

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

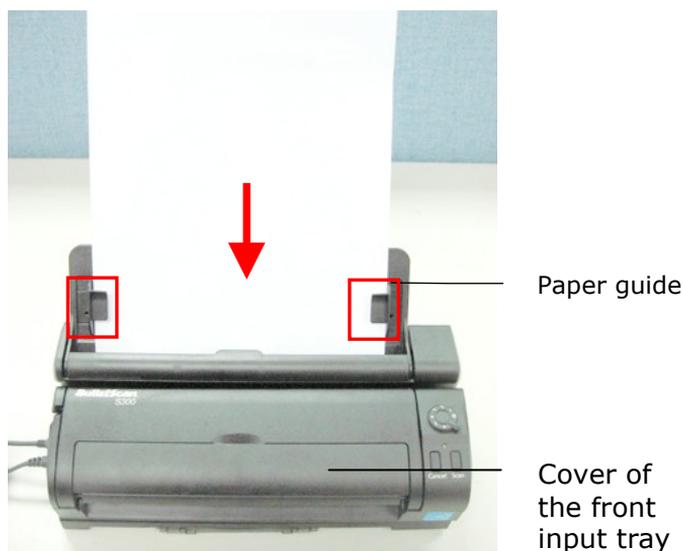
- Document(s) can range in size from 3.5 by 2 inches to 8.5 by 14 inches (Legal).
- Document(s) can range in weight from 16 to 28 lbs
- Document(s) should be square or rectangular and in good condition (not fragile or worn).
- Document(s) should be free of curl, wrinkle, tears, wet ink, or punch holes.
- Document(s) should be free of staples, paper clips, paper sticky notes.

3.1.2 Docked scanning with the ADF

1. Pull out the output tray beneath the bottom of the scanner as indicated below.



2. Load your one side document(s) to the document feeder with the top of the page pointing to the feeder.
 - The document feeder can hold up to 20 sheets (at Xerox 4024 20 lb. paper).
 - Place your one side document with the text facing down and the first page loading first.
 - Place your double side document with the first page inserting first.
3. Adjust the paper guides in the document feeder so they touch both sides of the page. Ensure that the page is straight and the guides are against the edges of the page.



Important:

For best results when scanning with the Automatic Document Feeder, be sure to close the front input tray.

3.1.3 Using the Front Input Tray

When the scanner is undocked, or if you wish to scan media that will not fit through the ADF, such as ID cards, you will need to use the Front Input Tray or Front Feed.

1. Open the cover of the front input tray.



2. Place your document in the front input tray, top end of the document in first, facing down. The scanner should detect it and pull it in a little.

3. If the document is small, like an ID card, business card, or photo, center your document. The input tray has paper sizing marks for convenience.



3.1.4 Paper Ejection options

The BulletScan S300 has 2 paper ejection options. Either you can use the default, which will return the scanned document to you, or you can opt to have the scanned document ejected out the back. You can select "eject paper opposite" on the Setting tab of the TWAIN user interface (Scanner Properties dialog box) to change how the document is ejected.

However, if you wish to use the "eject paper opposite" function, please disassemble the scan module from the auto document feeder first and scan from the scan module only.



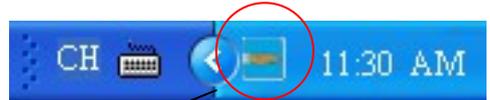
The following picture shows the position of the scanned paper after choosing "eject paper opposite"



3.2 Verifying Your Scanner Installation

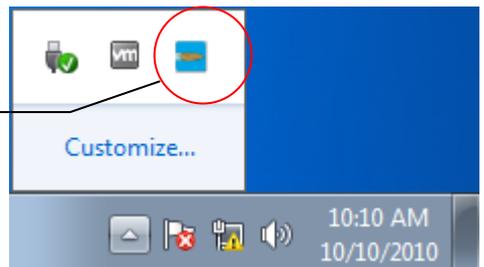
Before you begin, be sure the scanner is on.

Once you've loaded your scanner, you should be able to begin scanning simply by clicking on the BulletScan icon in the system tray and clicking on the destination number.



BulletScan Manager icon on Windows XP

BulletScan Manager icon on Windows Vista/7



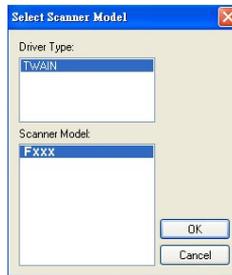
By default, selecting number 1 and scanning will give you a PDF in NewSoft Presto! PageManager. For more information on using the BulletScan Manager, please refer to the BulletScan Manager User Manual PDF.

If this doesn't work, you can verify if your scanner installation is correct, iVina provides you a simple image capture program called iVina Capture Tool. With this tool, you can perform simple scans to many image formats and immediately view the results. In addition, you can do use it to do speed tests and other operations

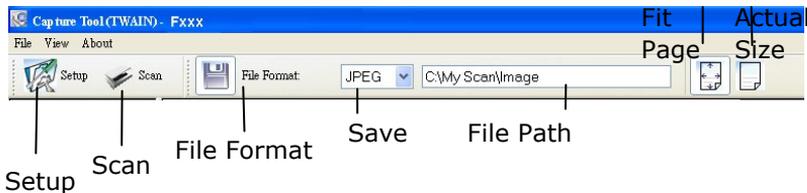
If your scanner is not responding after installation, the following procedure shows you how to verify your scanner installation. If the scanner is not working, please check both ends of the power and USB cables, verify the shipping lock is disengaged, and restart the scanner and computer.

1. Select Start>Programs>BulletScan>iVina Capture Tool. If there is nothing in the start menu labeled "BulletScan" you must install the software from the CD.

2. The Select Scanner Model dialog box will be displayed.



3. Select TWAIN (your driver type) and the F200 (scanner model) and click OK. The following iVina Capture Tool dialog box will be displayed.

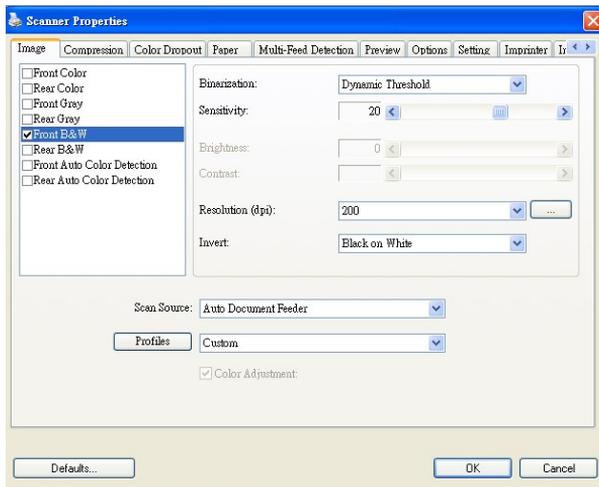


4. Choose your desired file format from the File Format drop down list box. (Default is BMP, other choice includes TIFF, GIF, and JPEG.)
5. Type your desired folder name and file name in the File Path box. (Default is C:\My Scan\Image.)

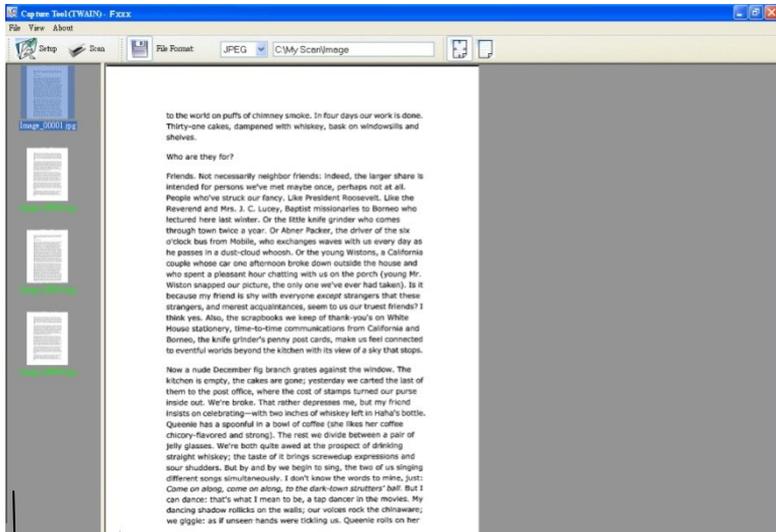
Note: If you do not wish to save the scanned image, click the Save button (Floppy Disk icon) as this option is enabled by default. Also, if you disable saving, the thumbnail view will be disabled and you'll only be able to view the last captured image.

6. Click the Setup button () or choose Setup from the File menu to prompt the Scanner Properties dialog box.

Image
Selection
Box



7. 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.
8. 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*.)
9. Place your document face down on the document glass or face up in the auto document feeder.
10. In the Scan Validation dialog box, click the Scan button () or choose Scan from the File menu.
11. 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.



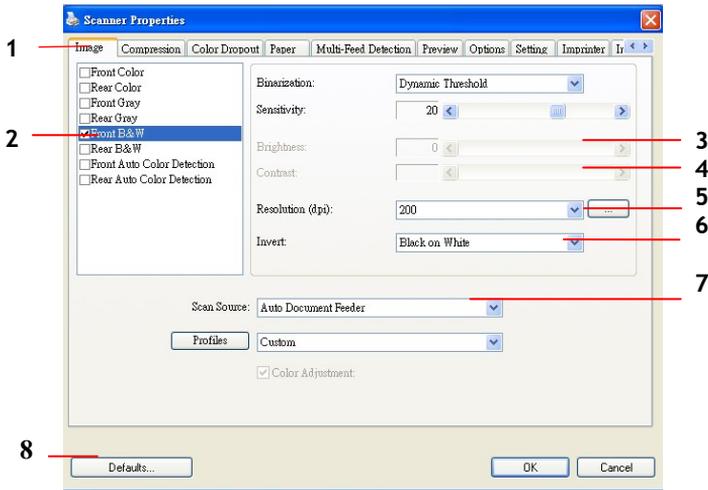
Thumbnail View

Fit Page View

12. You can view the scanned image in Fit Page () or Actual Size (100%) button () from the Viewing toolbars at the right side.

13. Click the Close box or Quit from the File menu to exit the Scan Validation Tool.

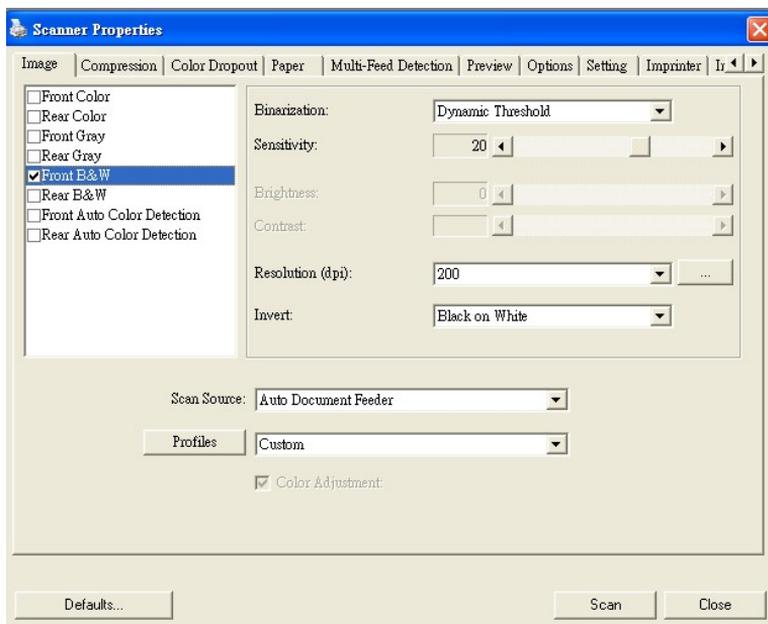
3.3 A Glance of the Scanner Properties Dialog Box



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.

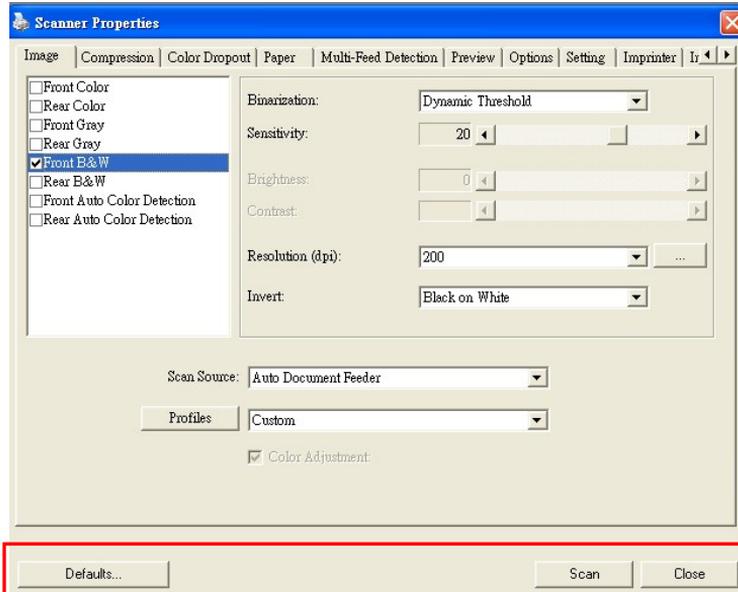
4. Using the Scanner Properties Dialog Box

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

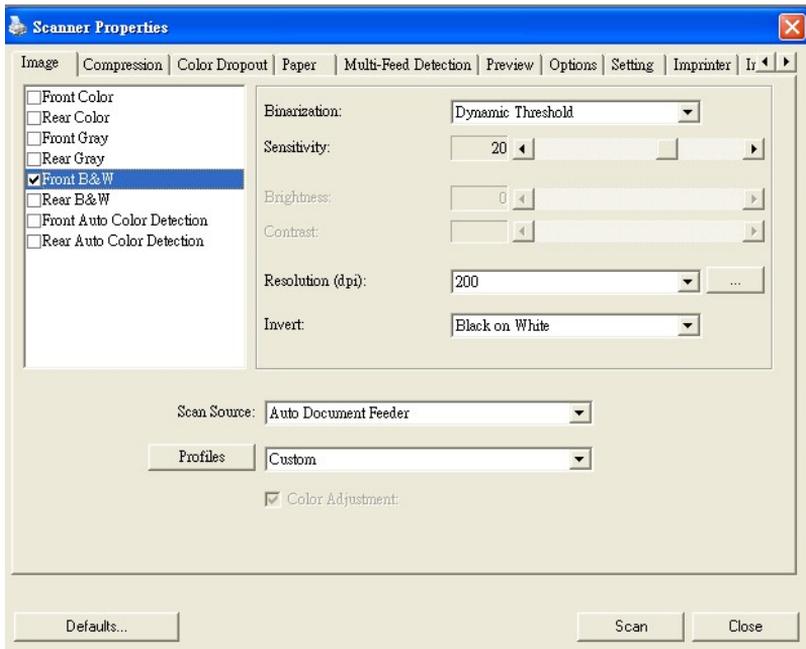
Buttons	Description
Defaults	Click the Defaults button, the factory default settings will be shown on each tab.
Scan	After all the scan settings are satisfactory, click the Scan button to start scanning your document.
Close	Click the Close button to leave the Scanner Properties dialog box.

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

4.2.2 The Image Selection Box

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

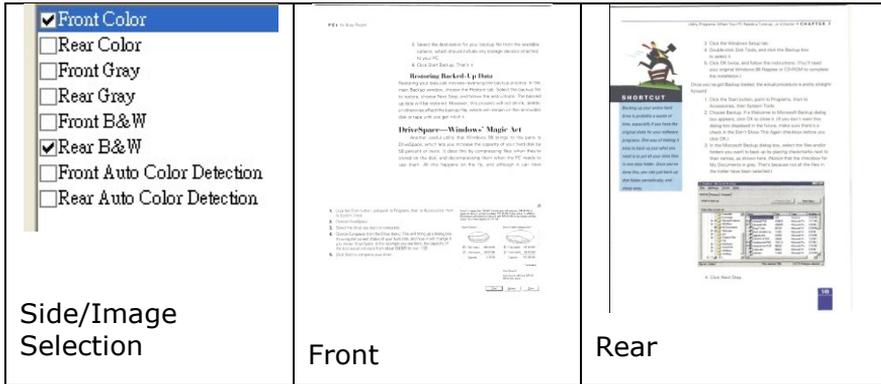
The Image Selection box includes the image type and document side option. If you wish to scan both the front side and the rear side of your color document, you can check both Front Color and Rear Color at the same time. Note the options vary based on type of scanner.

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

<p> <input checked="" type="checkbox"/> Front Color <input checked="" type="checkbox"/> Rear Color <input type="checkbox"/> Front Gray <input type="checkbox"/> Rear Gray <input type="checkbox"/> Front B&W <input type="checkbox"/> Rear B&W <input type="checkbox"/> Front Auto Color Detection <input type="checkbox"/> Rear Auto Color Detection </p> <p>Side/Image Selection</p>	<p>Front</p> 	<p>Rear</p> 
---	--	---

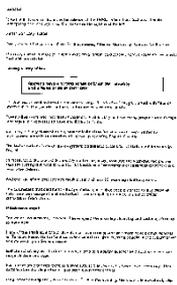
1

Example 2 : Scanning a two-sided color document, one in B&W(Drop Blue Color : Threshold : 10, Background : 79), the other in color



2

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. If you are scanning a black and white photo, use this option.
B&W	Choose B&W if your original contains only text, pencil or ink sketch.



B&W



Gray



Color

4.2.3

4.2.4

Front/Rear Auto Color Detection:

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

Note: If you enable Auto Color Detection for either side, you must use it for both sides if you are scanning in duplex.

Sensitivity of Auto Color Detection

If your documents contain primarily B&W text and small amount of light or pale colors and you do not wish them to be recognized as color image to save the file size, you can reduce the sensitivity value by moving the bar to the left to let these images to be detected as B&W. The value ranges from 1 to 30. The default is 20.

4.2.5 Other Image Options

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

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

Sensitivity of Dynamic Threshold

Occasionally your scanned image may contain small dots or speckles. To remove these spots, increase the sensitivity value by moving the bar to the right. The value ranges from 1 to 30. The default is 20.

Fixed Processing: Used for black-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.

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

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



Halftone Image



H

F. Michelangelo
Architecture
this huge vault
sculpture, painted
photographs,
ceiling with a
illus. (120 in c
10 3/4" x 14"

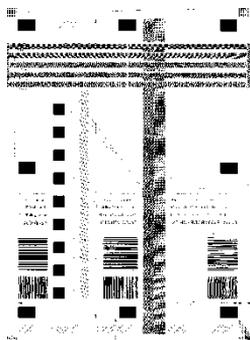
G. NEW Botticelli
Renaissance
unprecedented
first lifesize m
enormous net

Error Diffusion Image

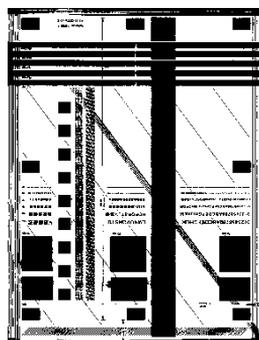
Threshold

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

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



**200 dpi,
Threshold:80,
Brightness: 0**



**200 dpi,
Threshold:170,
Brightness: 0**

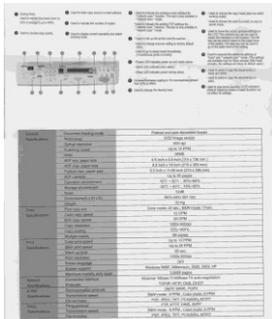
Gray

Document Type: Normal, Photo, Document

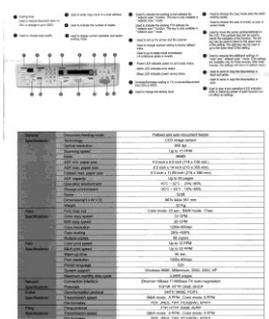
Three options of document type are provided when you choose Gray as the image type for your scanned document. Choice: Normal, Photo, Document.

- **Document:** Choose Document if your original contains pure text or a mixture of text and graphic since it is an optimal setting for regular business document. When using Document, only Threshold can be adjusted.
- **Photo:** Choose Photo if your original is a photo or similar to reproduce your photo in vivid grayscale image. When using Photo, Threshold and Contrast are locked.
- **Normal:** When using **Normal**, Threshold, Brightness, and Contrast can be adjusted.

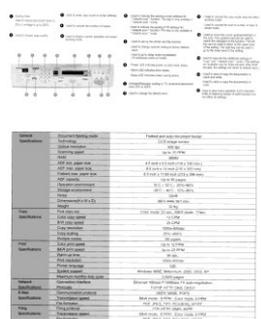
Threshold: The value ranges from 0 to 255. The default is 230. A low threshold value produces a lighter image, and can be used to subdue backgrounds and subtle, unneeded information. A high threshold value produces a darker image, and can be used to help pick up faint images. Adjust the threshold setting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



Normal



Photo



**Document
(Threshold: 230)**



Normal



Photo



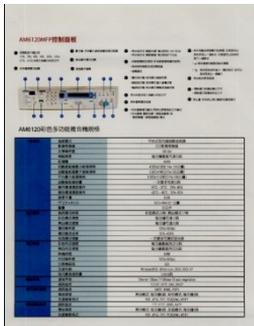
**Document
(Threshold: 230)**

Brightness

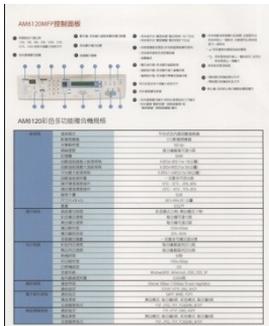
Adjusts the lightness or darkness of an image. The higher the value, the brighter the image. Drag the slider to the right or left to increase or decrease the brightness. The range is from -100 to +100.

Contrast

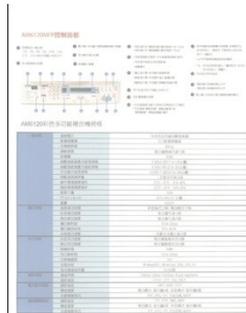
Adjusts the range between the darkest and the lightest shades in the image. The higher the contrast, the bigger the different grayscale. Drag the slider to the right or left to increase or decrease the contrast. The range is from -100 to +100.



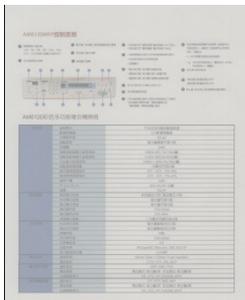
Brightness: -50



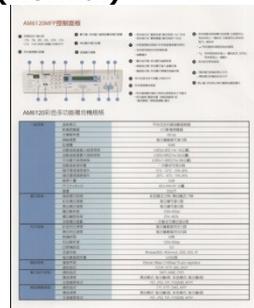
**Brightness: 0
(Normal)**



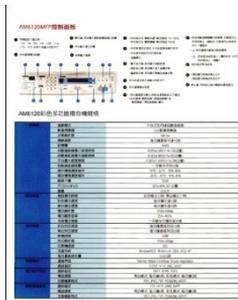
Brightness: +50



Contrast: -50



**Contrast: 0
(Normal)**



Contrast: +50

Resolution

Resolution is the value that controls how much information is captured when the scan is performed. A higher resolution will capture more information and increase the file size, trading off performance for quality. Most business documents are best saved in 200 or 300 DPI (Dots Per Inch) depending on the size and quality of the text. For reference, an letter size color image scanned at 300 dpi at in color consumes about 25 MB of disk space when uncompressed. A higher resolution (over 400 dpi) is only recommended when you need to scan a very small area.

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 manually set the resolution by clicking the button labeled [...] next to the drop down list and enter your desired value, pressing 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 w
e who work manually, clerics and lay brothers
ards being humble in all things; not to glorify
r to become Interlorly proud because of good w
sometimes says or does in them or through t
ord: "Do not rejoice... in the fact that the de
: 10:20) Let us be firmly convinced of the fac

Black on White

"I am not worthy to have you enter my
that is God, I beg all my brothers - those w
e who work manually, clerics and lay brothers
ards being humble in all things; not to glorify
r to become Interlorly proud because of good w
sometimes says or does in them or through t
ord: "Do not rejoice... in the fact that the de
10:20) Let us be firmly convinced of the fac

White on Black

**Scan
Source**

Choice:

- **Auto Document Feeder:** Used to scan multiple pages.
- **Merge Two Sides into One Image:**
When using the front input tray, you can scan an 11"x17" size document using this innovative method. To do this, fold your 11"x17" size document in half to 8.5"x11", and then load the paper in the front tray. Choose Merge Two Sides from the Scan Source option and then the scanner is able to scan both sides of your document and merge the two sides into a single output image.

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

Color Matching

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



Normal



After Color Adjustment

4.2.6 Scanning color images

The following options are available for scanning color images.

- Brightness
- Contrast
- Resolution
- Invert

4.2.7

4.2.8 Scanning grayscale images

The following options are available for scanning gray images.

- Brightness
- Contrast
- Resolution
- Invert

4.2.9 Scanning B&W images

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

- Binarization (Dynamic Threshold)
- Resolution
- Invert

Or

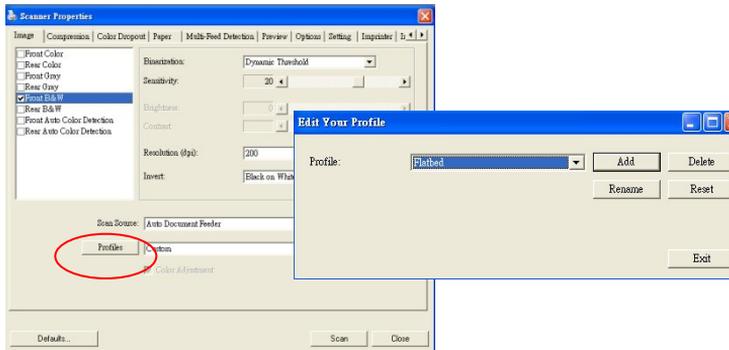
- Binarization (Fix Processing)
- Threshold
- Brightness
- Resolution
- Invert

4.2.10 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.



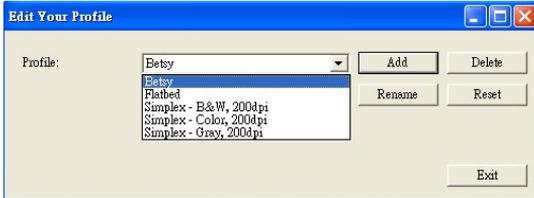
3. Click "Add" to enter the name of the profile and then choose "Save".



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

To load a profile,

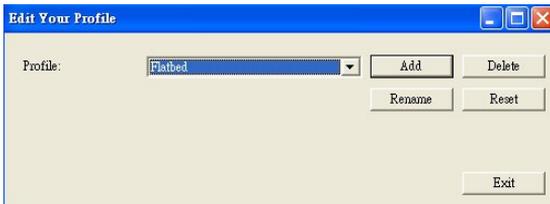
1. From the Image tab dialog box, choose your favorable profile from the "Profiles" dropdown list box.



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

To delete a profile,

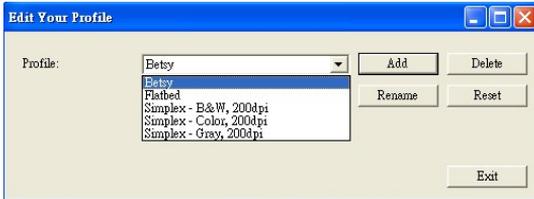
1. From the Image tab dialog box, click "Profiles" to prompt the Edit Your Profile dialog box.



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 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

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 when scanning from certain applications, not all compression modes are supported. If the application does not support the type of compression format, typically you will see an error or a black image.

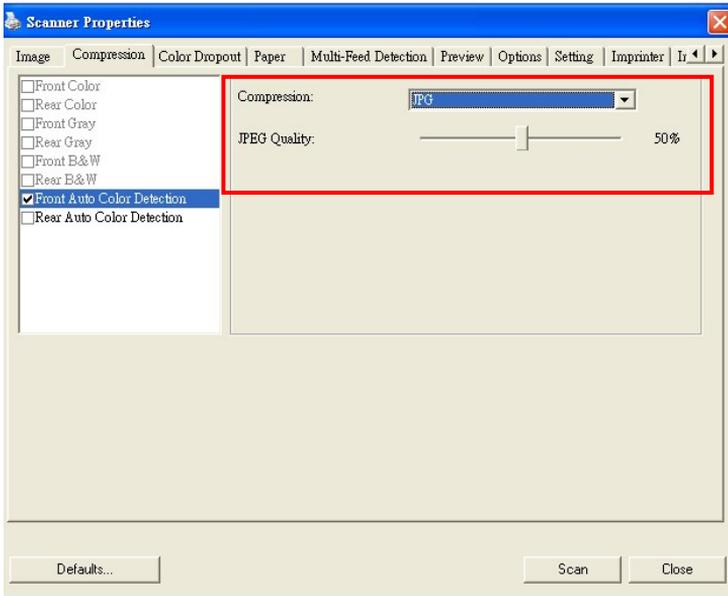
JPEG (Joint Photographic Editor Group). This group developed and lent their name to a file compression standard for color and grayscale images that is widely used by scanners, and software applications. On Microsoft Windows-based systems, a file with the extension .jpg has normally been compressed using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



The Compression tab dialog box

4.4 The Color Dropout Tab

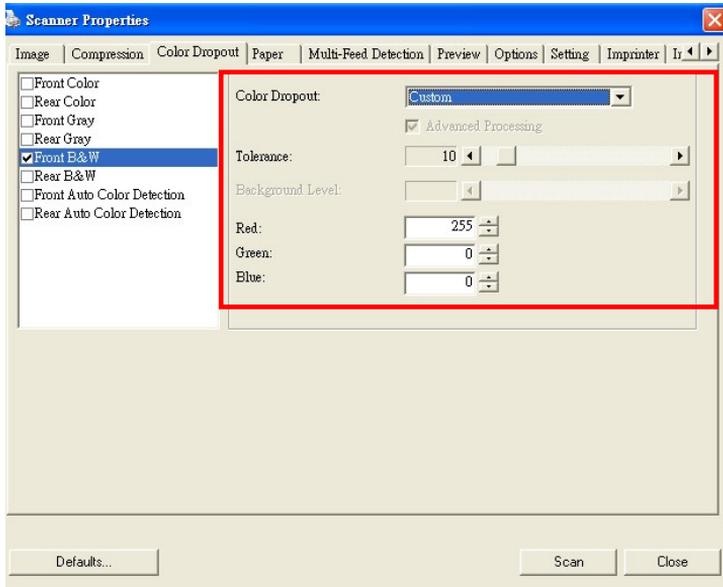
4.4.1 Color Dropout Selection

Color Dropout is a special type of image processing designed to improve OCR results by removing specific types of background color content. Typically this is used in conjunction with specially designed forms that have colored boxes or checkboxes that people fill in. Using dropout allows you to remove these specially colored boxes from the image and provides you with better OCR results. It can also be used to remove a specific background color if it is causing a lot of noisy speckling.

From the dropdown menu, you can select any of the standard RGB color channels to be removed, or Custom to allow you to specify your desired color to be removed by entering its RGB (Red, Green, and Blue) value respectively.

Tolerance: Specify the allowable color range to be removed for the color you selected. Specified range: 1 ~ 100
The larger the numeric value, the wider the color dropout range is.

Note that this function is only for outputting black & white or gray images.



The Color Dropout dialog box

4.4.3 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.

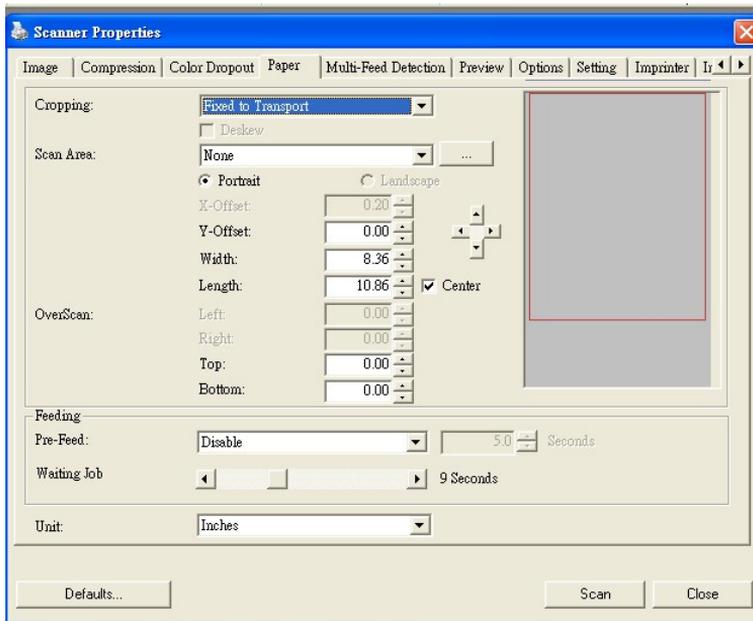
AM6120彩色多功能複合機規格

一般規格	產品形式	單體式/內嵌式/組合機
	產品名稱	彩色複合機
	液體容量	50L
	掃描速度	每分鐘掃描可達10頁
	分辨率	600dpi
	掃描速度(單色/彩色)	4.0/2.0(ISO)1/1.5(公釐)
	掃描速度(單色/彩色)	8.0/4.0(ISO)1/1.5(公釐)
	掃描速度(單色/彩色)	8.0/4.0(ISO)1/1.5(公釐)
	掃描速度(單色/彩色)	—(依實際情況而定)
	掃描速度(單色/彩色)	10/5 / 3/2 / 2/1.5
	掃描速度(單色/彩色)	10/5 / 3/2 / 2/1.5
	掃描速度(單色/彩色)	10/5 / 3/2 / 2/1.5
	掃描速度(單色/彩色)	10/5 / 3/2 / 2/1.5
輸出規格	紙張	80/90/100/110 公釐
	紙張尺寸	A4
	紙張重量	60/70/80/90/100g
	紙張厚度	0.075/0.10/0.125/0.15mm
	紙張數量	每分鐘可達10頁
打印規格	紙張尺寸	210x297mm
	紙張重量	70/80/90/100g
	紙張厚度	0.075/0.10/0.125/0.15mm
	紙張數量	每分鐘可達10頁
	打印速度	每分鐘可達10頁
網路規格	網路介面	10/100
	網路協定	TCP/IP
	網路協定	Windows 98/Windows 2000/XP
	網路協定	Windows 2003/Windows Vista/Windows 7
	網路協定	Windows 8/Windows 10
電子附件規格	掃描器	標準型
	掃描器	標準型
網路規格	網路協定	TCP/IP
	網路協定	TCP/IP

Original

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).



The Paper tab dialog box

4.5.2 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.

4.5.3 Other Paper Selection

Deskew

Use this option to automatically deskew a document.



Note: If the document feeds at too much of an angle, 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: Unknown Length, Enter Length (Note: This option varies due to type of scanner.)

Choose "Unknown Length" 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.

Pre-Feed

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

Transport Timeout

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

Note:

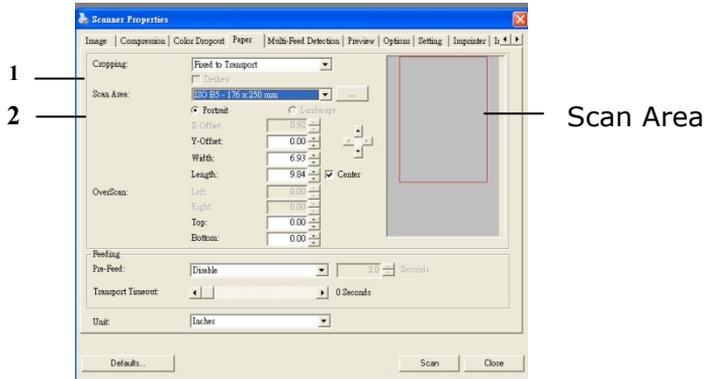
- 1 Within the specified timeout period, if you load your document to the feeder, the scanner starts scanning automatically.
-

4.5.4 Multimode cropping

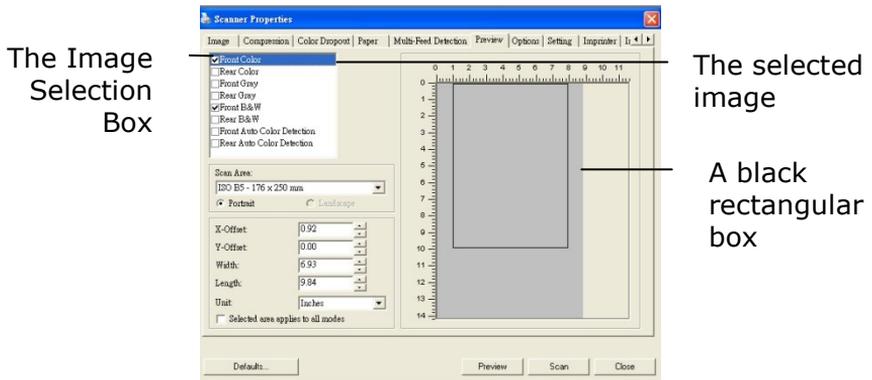
This feature provides flexibility if you are performing a scan that outputs in a more than one mode (B&W, Gray, or Color); you can assign different crop areas on your documents for each color mode. For example, there are applications which require you to store the entire form in B&W and a part of the 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 directions describes how to scan the entire document in B&W and keep a small portion of the document (picture) in color.

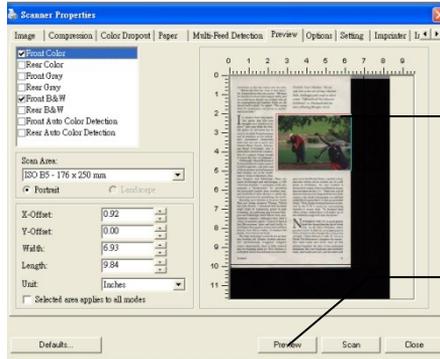
1. On the Paper tab, choose "Relative to Document" or "Fixed to Transport" from the Cropping option.
2. Choose your scan size from the Scan Area option. The selected scan size will be displayed in a red rectangular box. This is also the scan size of your entire document. (If you have not chosen a scan 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 you have just selected.



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



The Preview Image

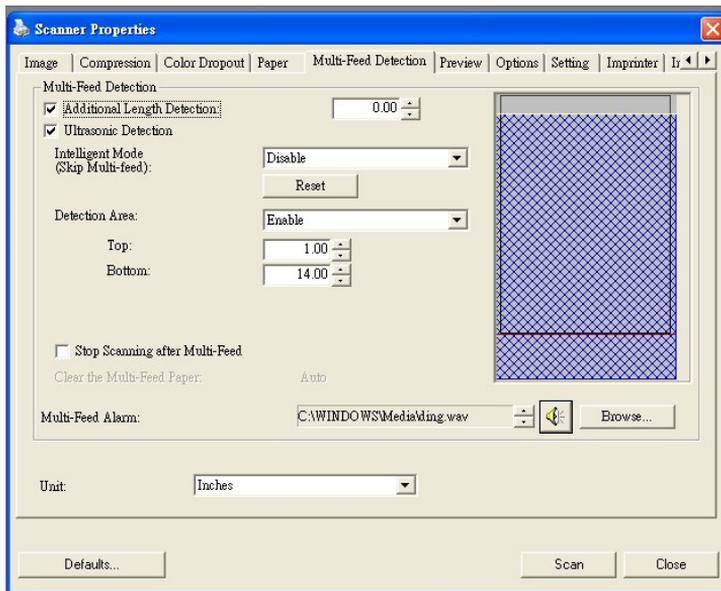
The Preview Button

5. Select the 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.

4.6 The Multi-Feed Detection Tab

Multi-Feed Detection

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



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.

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

- **Stop Scanning after Multi-Feed**

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



Action:

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

Clear the Multi-Fed Paper:

Choice: Manual, Auto

If Auto is selected, once multi-feed is detected and scanning operation is stopped, the scanner will automatically clear the transport of the multi-fed paper. If manual is selected, once multi-feed is detected and scanning operation is stopped, you need to manually clear the transport of the multi-fed paper.

Note: The availability of this option varies based on type of scanner.

● **Multi-Feed Alarm**

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

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

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

Action:

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

How to add the sound alarm :

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

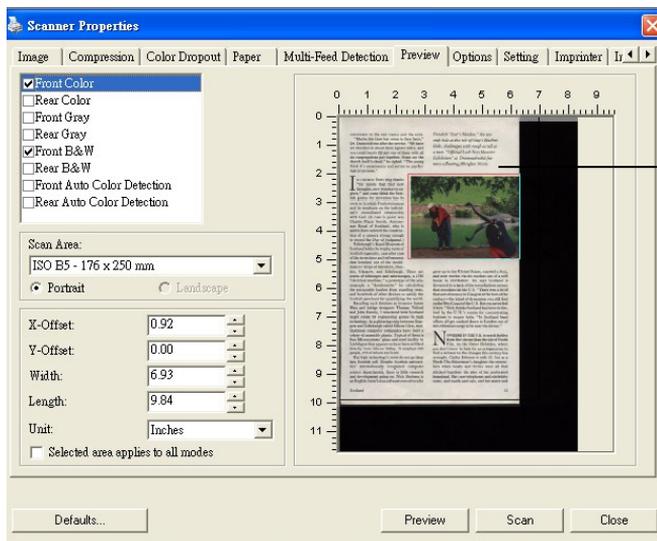
Units

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

4.7 The Preview Tab

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

Note: If you choose "Automatic Cropping" on the "Paper Tab", then selecting a scan area on the Preview tab is disabled.

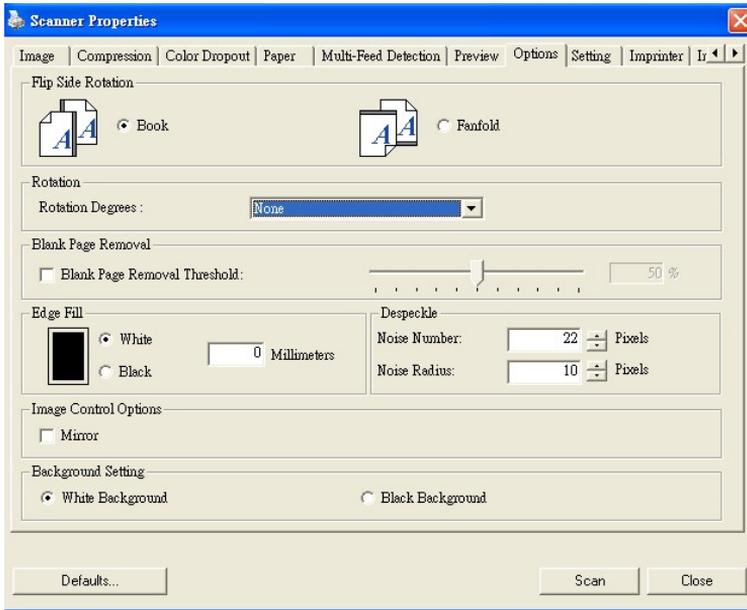


The Display Window

The Preview Tab

4.8 The Options Tab

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

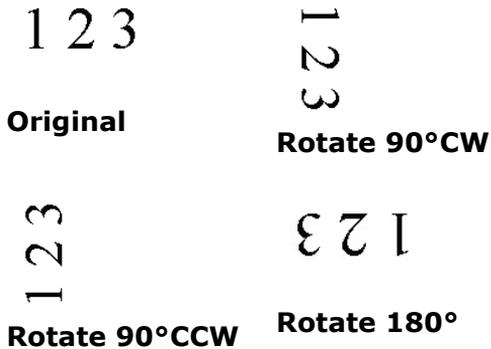


The Option tab dialog box

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°, Auto based on contents. Auto rotate every even page.



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

Auto rotate every even page: Automatically rotate 180° on every even page. This is especially useful when you scan the inside pages from a book.

Blank Page Removal

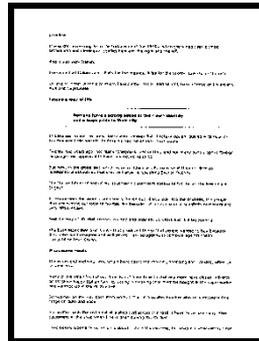
Check if you wish to remove the blank page and move the slider to the left or right to your desired threshold.

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.

A scanned document page with a white background and black text. The text is arranged in several paragraphs and includes a small table with two columns and two rows. The page is slightly off-center and has some minor scanning artifacts.

Original



Edge Fill: 5mm (Black)

**Image
Control
Option**

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



Original

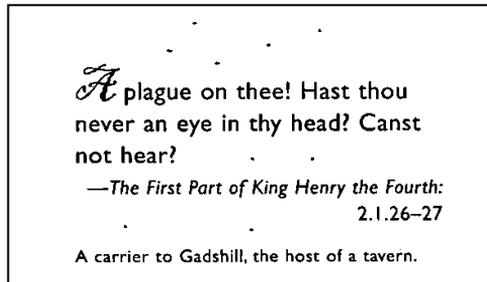


The Mirror Effect

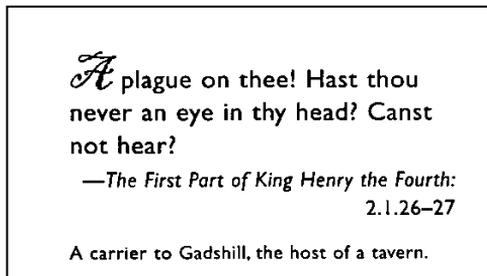
Despeckle

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

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



Before Despeckle
(noise number:0, noise radius:1)



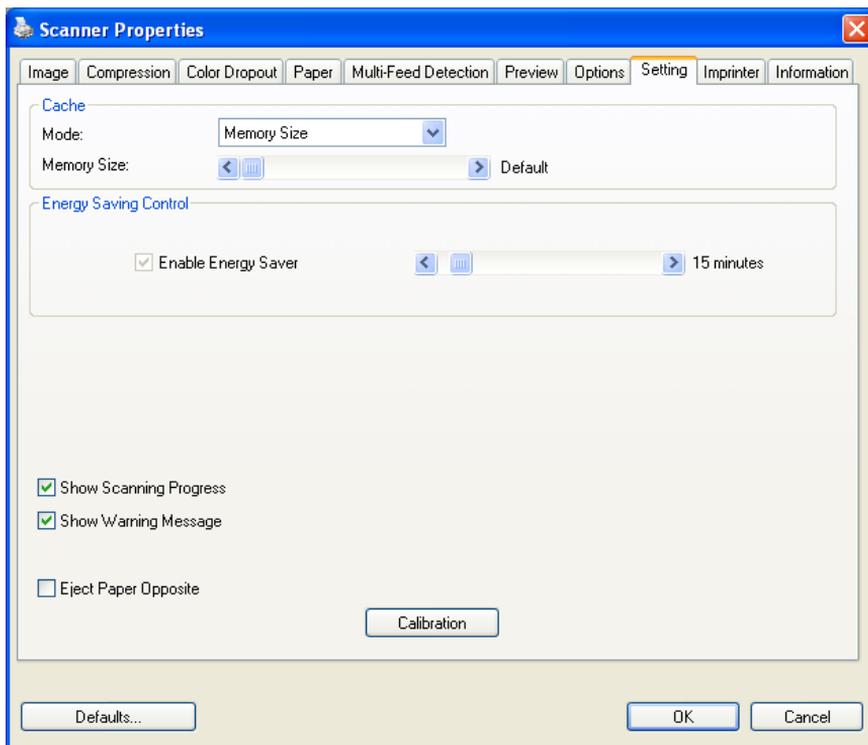
After Despeckle
(noise number:22, noise radius:10)

Note:

- The function is for Black and White images only.
-

4.9 The Setting Tab

The Setting tab allows you to set the following settings:



The Setting tab dialog box

Energy Saving Control

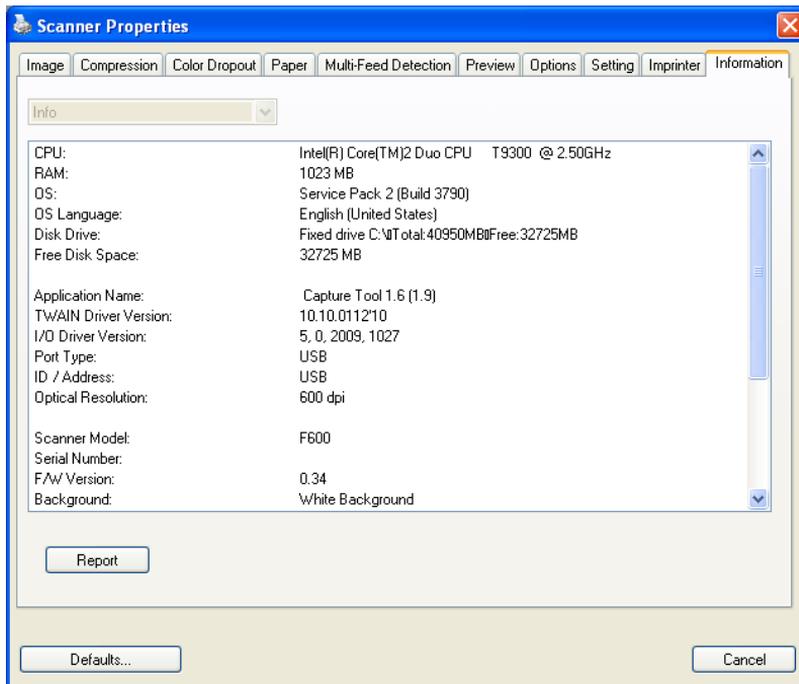
Check the **Enable Energy Saver** box and move the slider to the right to set the amount of time to start the energy saver after your last action. The range is from 1 to 240 minutes. The default is 15 minutes.

<p>Cache</p>	<p>Mode: None, Page Number, Memory Size.</p> <p>This option allows you to assign a specified memory size from the available RAM to process the image data. By specifying a smaller memory size, you can free more memory for other applications you are running. By specifying a larger memory size, you can have more memory to process the image data especially when you have a large amount of documents needed to be scanned.</p> <p>You can also specify your memory size by the page number. For your information, an A4 color document scanning at 300 dpi consumes approximates 24MB.</p> <p>Image Count</p> <p>When the selected cache mode is “none”, the image count option allows you to assign number of pages you need to scan. For example, if you wish to scan the first two pages, simply move the page slider to 2, and the scan action will be stopped when the scanning of the first two pages have been completed.</p>
<p>Barcode Detection</p>	<p>Check this option to enable detecting and recognizing barcode in your document. After the detecting process, an avbarcode.ini file will be generated and stored in your system drive, for example, Windows\avbarcode.ini.</p>

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."
Eject Paper Opposite	Check to enable ejecting documents through the back, instead of returning the documents to the front. Only applies when using the Front Input Tray.
Calibration	Click this to perform an automatic recalibration of the scanner.

4.10 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:\S300) will be generated. Please send this file to the nearest service center for trouble shooting.

The “Reset Pad Count” button :

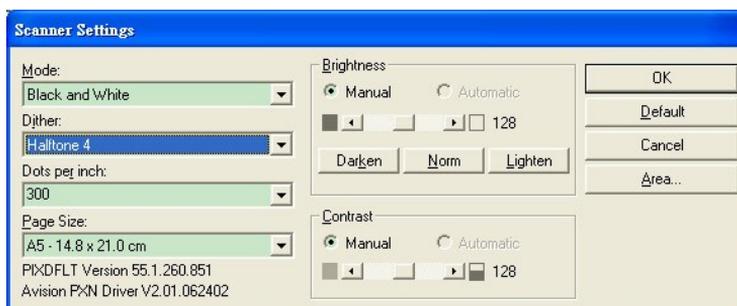
After scanning approximately 20,000 pages (the number varies based on type of scanner, type of paper and size of batches) through the Auto Document Feeder (ADF), the ADF pad may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the ADF pad with a new one. (Please refer to the manual for proper replacement 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 100,000 pages (the number varies based on type of documents scanned) 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.

5. The ISIS Interface Operation

The ISIS driver operation method is similar to the TWAIN's functions 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 convenient buttons and knob on the scanner is shown as below:



6.1 The BulletScan Manager

The buttons on the scanner are controlled by the BulletScan Manager. It is installed by default from the CD when you use the Easy Installation mode, and is selected by default when choosing the Advanced Installation mode.

Please consult the BulletScan Manager Manual for how to use and configure the buttons.

The BulletScan Manager provides you with 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. It is recommended to examine the button configurations first for the best results.

6.2 Scanning From One Touch of the Buttons

1. Adjust the paper guide for the width of paper and load the document facing down with their tops into the automatic document feeder.
2. Check the number on the knob of the scanner to ensure if you are selecting the proper scan settings and destination application.
3. Press the Scan button on scanner.
4. After the scanning is finished, the destination application will be launched and the scanned image appears in the application.

7. Care and Maintenance

7.1 Cleaning the Scanner Glass

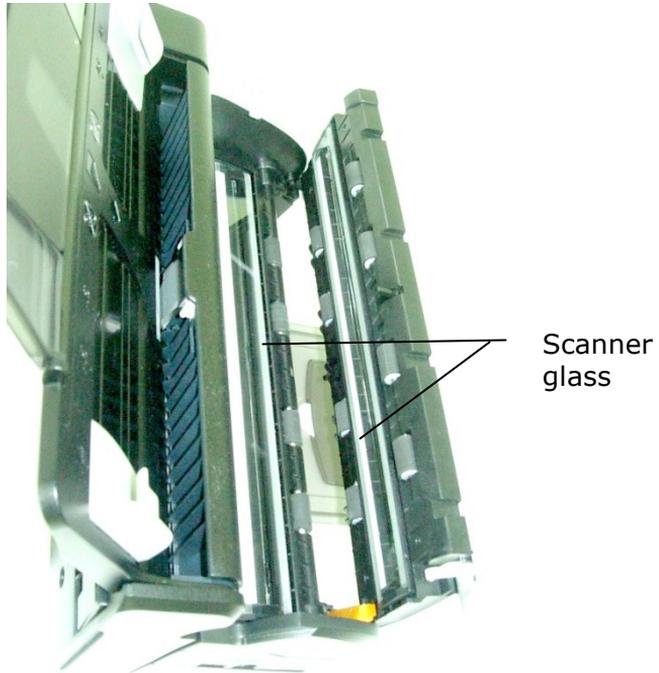
Both strips of glass in the scanner should be cleaned periodically. The two small strips of gray reflective material should be lightly dusted if debris is present.

To clean the strips of glass, follow these steps:

1. Pull the release knob to open the front door.



2. Clean the glass by using a soft and lint-free cloth wet with some isopropyl alcohol. (95%).



3. Close the front door.

7.2 Cleaning the rollers and ADF pad

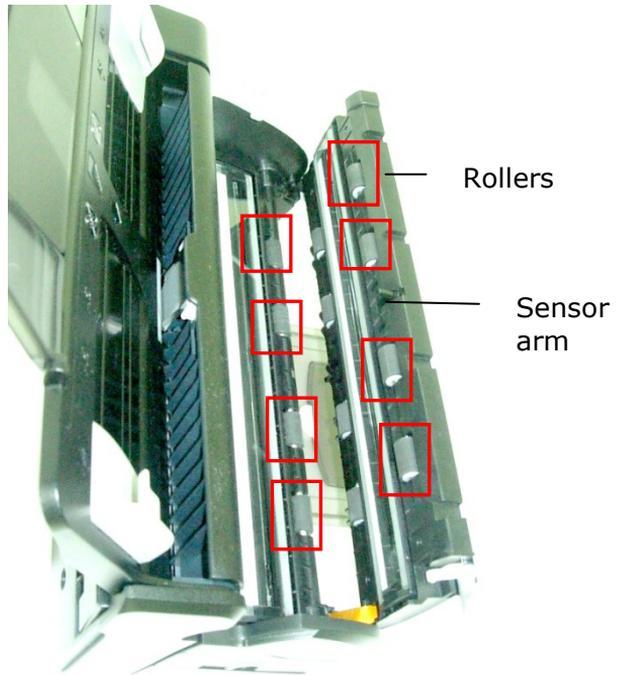
From time to time the pad assembly and feeding rollers may become contaminated with ink, toner particles or paper dust. In this case the scanner may not feed documents smoothly. If this occurs, please clean the rollers and ADF pad.

To clean the feeding rollers,

1. Pull the release knob to open the front door.



2. Clean the feeding roller by using a soft, lint-free cloth wet with some isopropyl alcohol. (95%). While cleaning the rollers, avoid touching the sensor arm.



3. Close the scanner front door.

To clean the ADF roller and pad assembly,

1. Press down the document feeder.



2. Press down two latches on the back of the automatic document feeder to open the rear cover.



3. Clean the ADF roller and ADF pad by using a soft and lint-free cloth wet with some isopropyl alcohol (95%). When cleaning the ADF pad, avoid touching the metal part.



7.3 Replacing the ADF Roller

Replace the ADF roller under the following conditions:

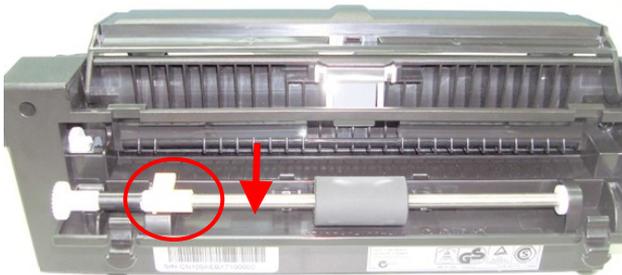
1. You experience repeated document jams and cleaning the ADF roller did not help.
2. As a guideline, replace the roller after about 100,000 scans. You may check the scan count with the Info tab on the scanner's TWAIN user interface.

Disassembly Steps:

1. Press down two latches on the back of the automatic document feeder to open the rear cover.



2. Move the yellow knob on the roller backward to the end to release the roller.





3. Remove the roller.

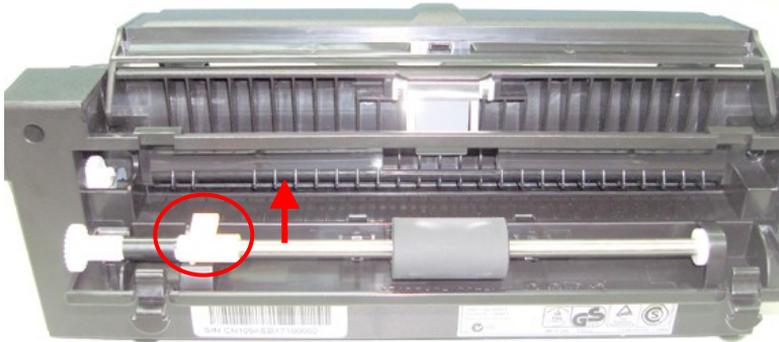


Installation Steps:

1. Insert right end of the roller into the roller groove.



2. Move the knob of the roller forward as indicated. If successfully inserted, a snap in sound could be heard.



3. Close the rear cover by pushing two latches to its original positions.



7.4 Replacing the ADF pad module

Replace the ADF pad assembly under the following conditions:

1. You experience repeated document jams and cleaning the ADF pad did not help.
2. As a guideline, replace the pad assembly after about 20,000 scans. You may check the scan count with the **Info** tab on the scanner's TWAIN user interface.

Disassembly Steps:

1. Press down the document feeder.



2. Press down two latches on the back of the automatic document feeder to open the rear cover.



3. Use your fingers to hold and press two sides of the pad assembly to remove the pad assembly.



Installation Steps:

Follow the reverse order of the disassembling steps to install the ADF pad.

8. Troubleshooting

8.1 Clearing a Paper Jam

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

1. Pull the release knob to open the front door.



2. Press down two latches in the back of the automatic document feeder to open the rear cover.



3. Carefully pull the paper out of the document feeder.



8.2 Frequently Asked Questions

Question: The scanned image always comes out to be too dark.

Answer: 1) Use your application to modify the Gamma setting to 2.2 and 1.8 for your printer and monitor respectively.
2) Adjust Brightness setting from the TWAIN interface to get a brighter image.

Question: The scanner works well except for the line art, the lines of which seem much thicker than the original.

Answer: Increase the Brightness or adjust the Threshold setting to adjust the line art image.

Question: Feeding paper from the ADF easily causes paper jam.

Answer: Make sure to close the front paper tray. While the front paper tray is open, feeding paper from the automatic document feeder easily causes paper jam.

8.3 Technical Service

Before contacting iVina, 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);
- The name and version of your scanning software application;
- The version of your scanner driver.

For the latest information, visit us online at:

www.bulletscan.com

9. Specifications

All specifications are subject to change without notice.

Model Number	BulletScan S300
Scanner Type	Sheet-fed, duplex scanner
Optical Resolution	600 x 600 dpi
Maximum Scanning Size	8.5"x14"
Interface	High Speed USB 2.0
Bus Power/ External Adapter	5Vdc,1A / 24Vdc,1A
Power Consumption	< 10 watts (operation) < 5 watts (standby)
Operation Temperature	10~35°C
Storage Temperature	-40 to 65°C
Dimension	
Without ADF (W*D*H)	297 mm x 80 mm x 60 mm
With ADF (W*D*H)	297 mm x 158 mm x 235 mm
Weight	1.76Kg (with ADF) 1 Kg (without ADF)

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