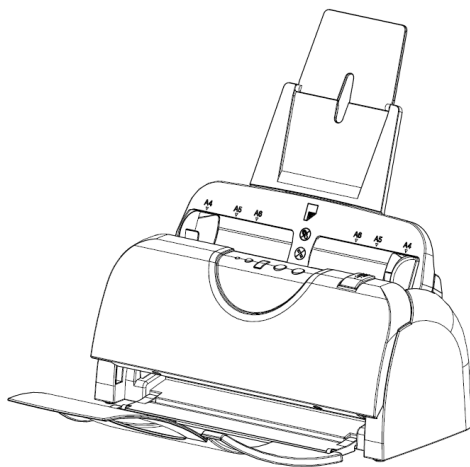


**Vina**  
**BulletScan™**  
**S400**  
**Sheetfed Scanner**

**User's Manual**  
**Aug 2010**



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This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. 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 the dealer or an experienced radio/TV technician for help.

**CAUTION:** Any changes or modifications not expressly approved by the manufacture of this device could void the user's authority to operate the equipment.

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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. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



As an ENERGY STAR® Partner, 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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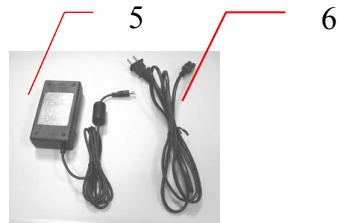
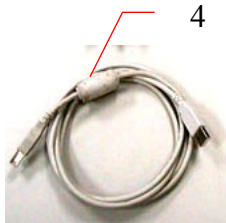
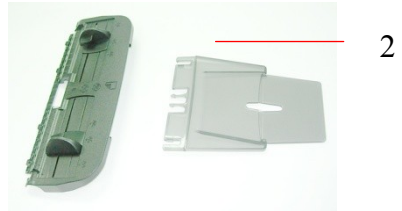
# **1. Introduction**

Congratulations on your purchase of the BulletScan S400 document scanner.

With this scanner, you can quickly scan documents 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. ADF (Auto Document Feeder) Paper Tray
3. Output Paper Tray
4. USB Cable
5. Power Adapter
6. Power Cord

---

**Note:**

1. Only use the **BulletScan Type 2 AC adapter** (FF-0506: HEG42-240100-7L or HEG42-240200-7L made by Hitron, FF-0508/FF0608S: HEG42-240200-7L made by Hitron) included in the machine. Using other AC adapters may damage the machine and void the warranty.
  2. Please unpack the scanner carefully, and check the contents against the checklist. If any items are missing or damaged, please contact your dealer immediately.
-

## **2. Scanner Installation**

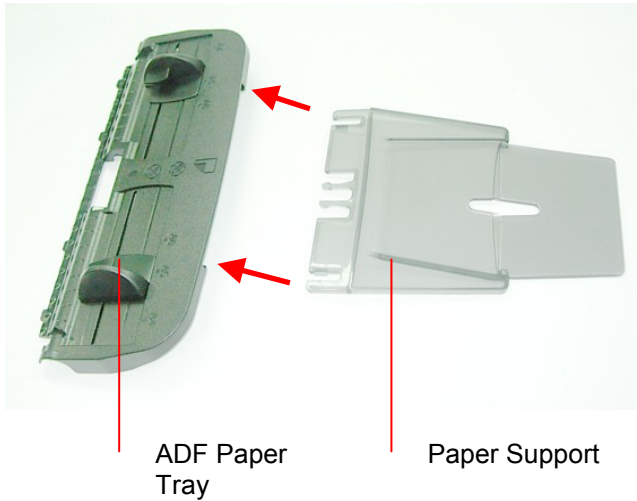
### **Precautions**

- 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 Installing the ADF Paper Tray Unit

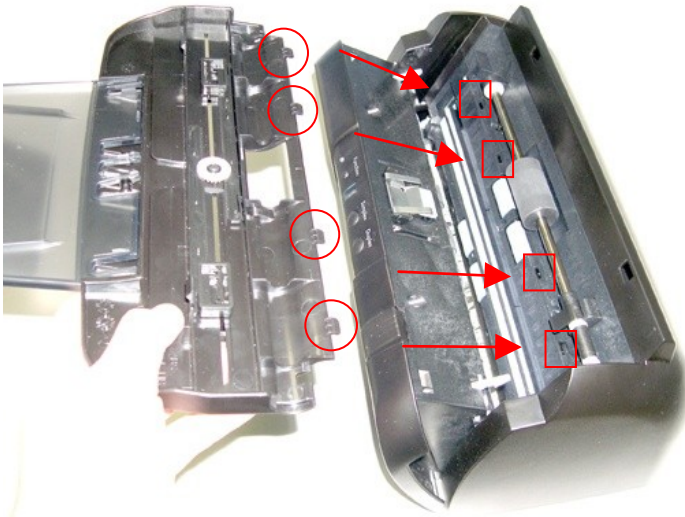
1. Attach the Paper Support to the ADF (Auto Document Feeder) Paper Tray.



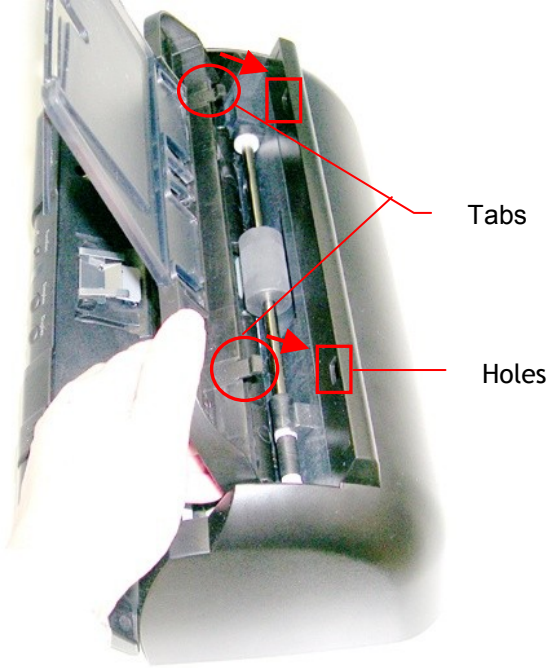
2. Pull out the ADF Release Latch to open the front door to the left.



3. Insert four tabs on the bottom of the ADF Paper Tray into the slots on the front of the scanner.



- 
- 4. Insert two tabs in the middle of the ADF Paper Tray into the slots on the top of the scanner.



## 2.2 Installing the Output Paper Tray

Insert the right and left tabs of the Output Paper Tray into the holes on the front of the scanner.



---

## 2.3 Connecting the Cables

**Make sure the power of scanner is off.**

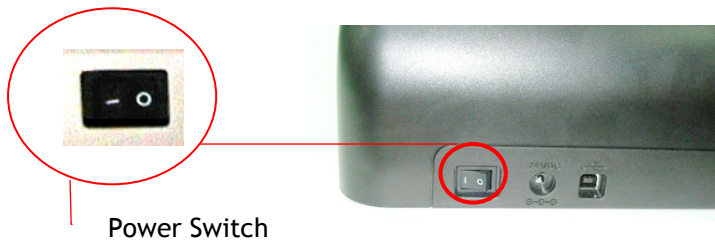
### 2.3.1 Connecting to Power

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



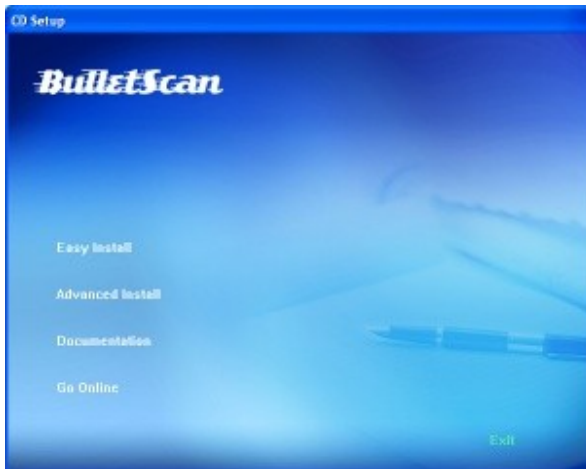
### 2.3.2 Turning on the Power

After the power cable has been connected, press the power switch to the "I" position to turn on the scanner. To turn off the scanner, please press the power switch to the "O" position.



## 2.4 Installing the Scanner Driver

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



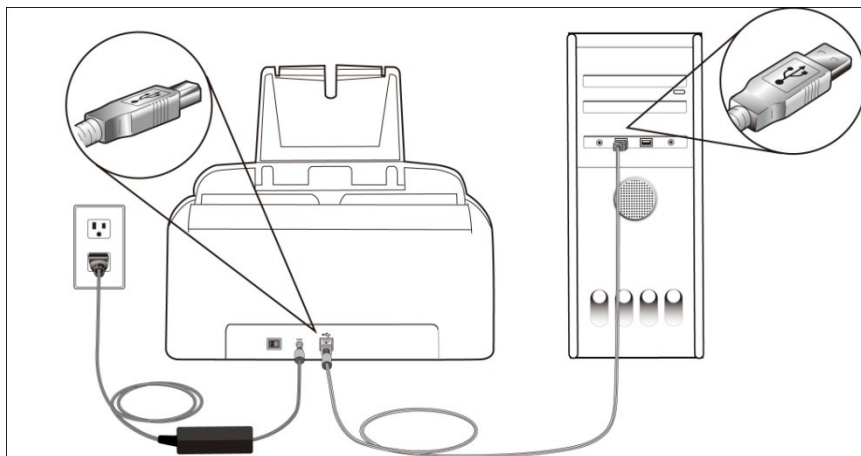
### Contents on the installation disc:

- **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.

---

## 2.5 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.

---

### Note:

To uninstall the scanner driver in Windows XP leave the scanner connected to your computer during software removal.

---

## **3. Completing Your First Scan**

### **3.1 Loading Your Paper**

#### **3.1.1 Notice on Using the ADF**

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

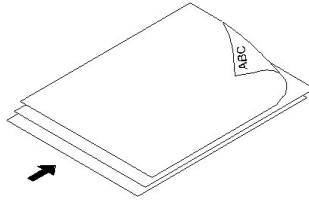
- Document(s) can range in size from 3.5 by 2 inches to 8.5 by 14 inches (Legal).
- Document(s) can range in weight from 16 to 28 lbs
- Document(s) should be square or rectangular and in good condition (not fragile or worn).
- Document(s) should be free of curl, wrinkle, tears, wet ink, or punch holes.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

---

## 3.1.2 Placing Your Document in the ADF

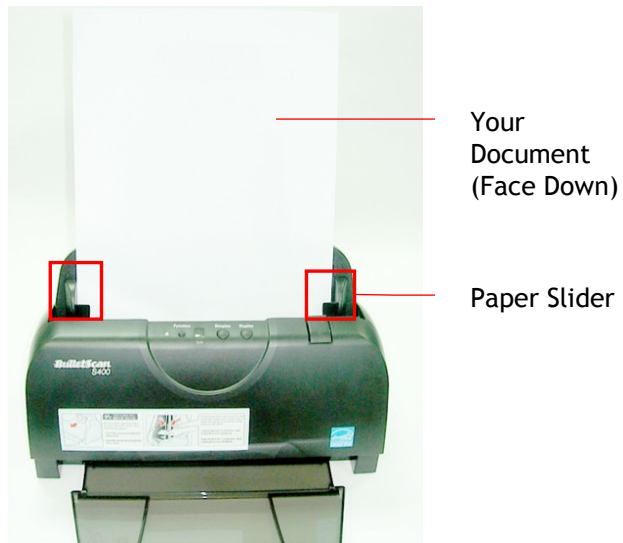
### **Fanning Your Document**

Standard paper size should feed easily through the scanner. To avoid occasional paper jam when automatically feeding multiple documents, flip through the paper before loading.



### **Document feeding**

Place your document with the text face down on the ADF Paper Tray. Align the two sides of the document with the slide guides. Please note that the ADF Paper Tray can hold up to 50-page document at a time.



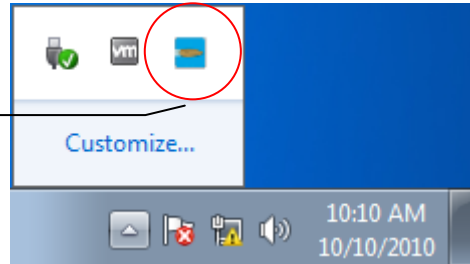
### 3.2 Verifying Your Scanner Installation

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



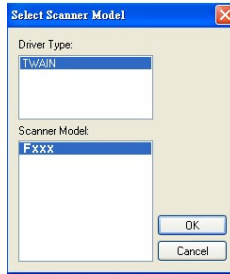
By default, selecting number 1 and scanning will give you a PDF in NewSoft Presto! PageManager. For more information on using the BulletScan Manager, please refer to the BulletScan Manager User Manual PDF.

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

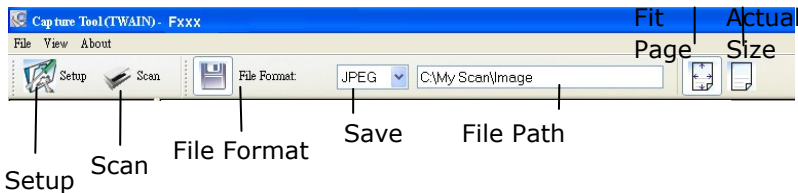
If your scanner is not responding after installation, the following procedure shows you how to verify your scanner installation. If the scanner is not working, please check both ends of the power and USB cables, verify the shipping lock is disengaged, and restart the scanner and computer.

Before you begin, be sure the scanner is on.

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.

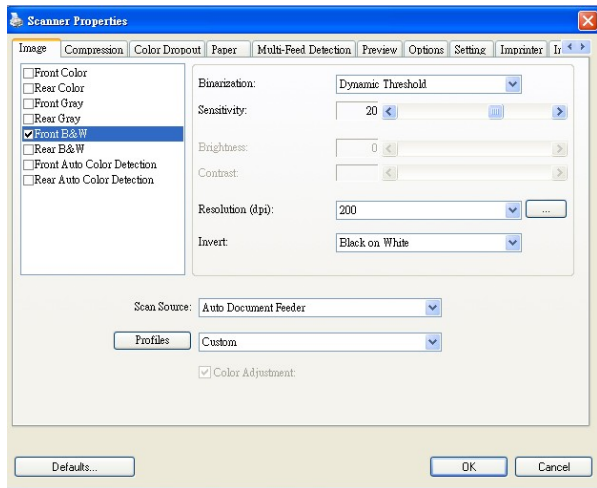



4. Choose your desired file format from the File Format drop down list box. (Default is BMP, other choice includes TIFF, GIF, and JPEG.)
5. Type your desired folder name and file name in the File Path box. (Default is C:\My Scan\Image.)

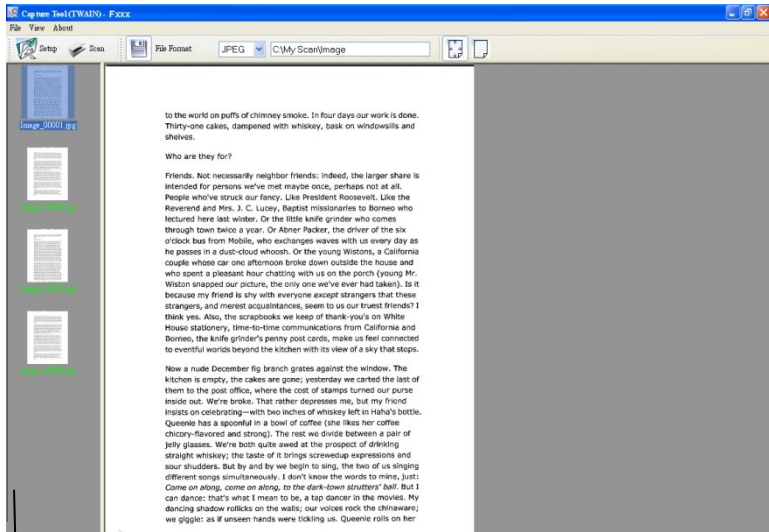
**Note:** If you do not wish to save the scanned image, click the Save button (Floppy Disk icon) as this option is enabled by default. Also, if you disable saving, the thumbnail view will be disabled and you'll only be able to view the last captured image.

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.



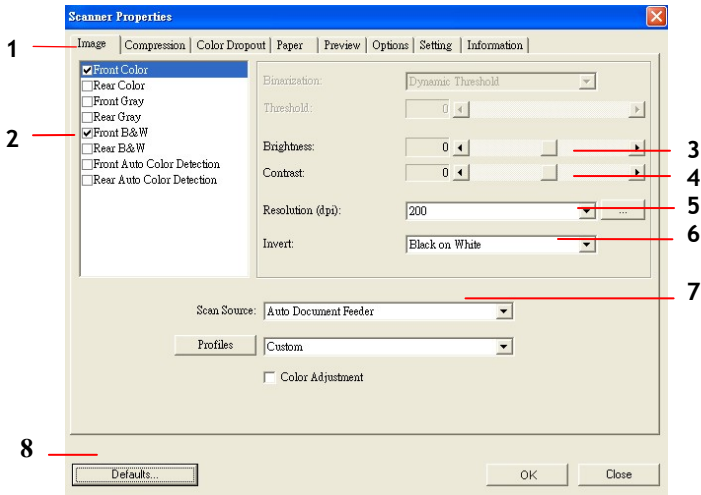
Thumbnail View

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

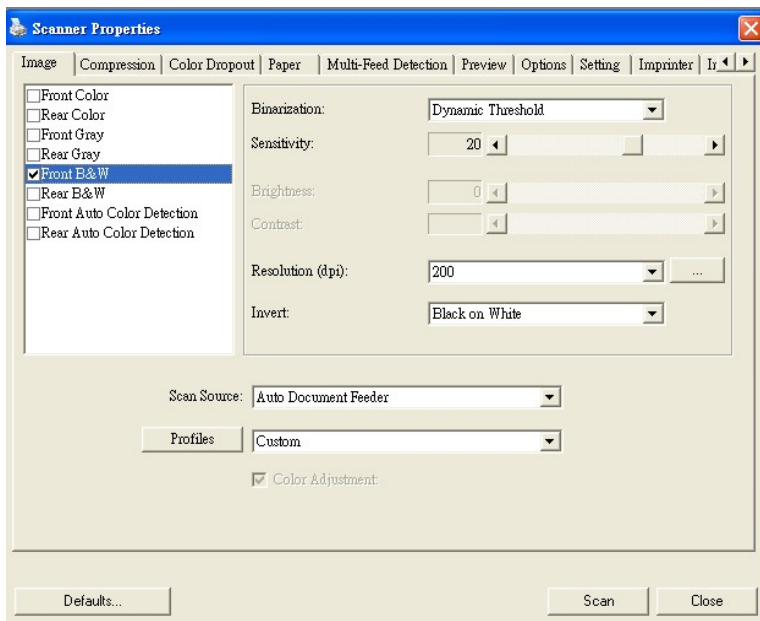


<b>1. Tab Options</b>	Choice: Image, Compression, Color Dropout, Paper, Options, Settings, Information.
<b>2. Image Selection Box</b>	Choose your image type and the side of document you wish to scan. Options vary based on type of scanner.
<b>3. Brightness:</b>	Adjust the brightness level from -100 to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



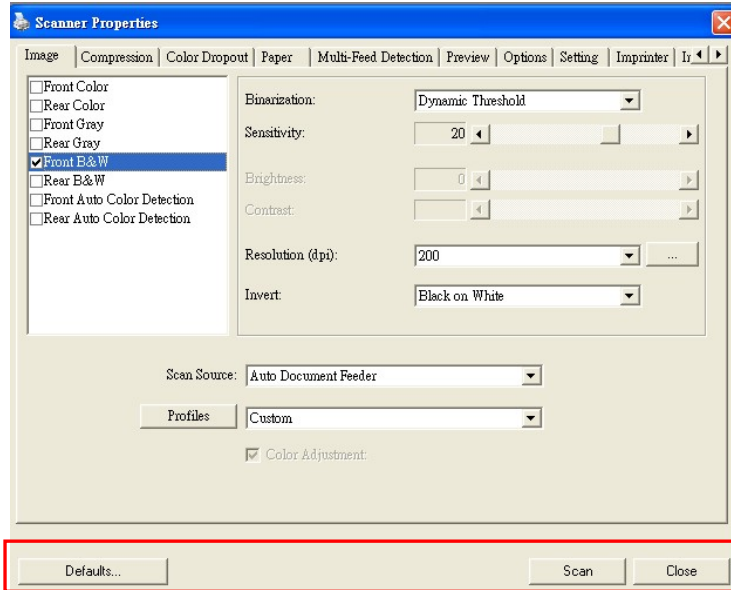
## 4. Using the Scanner Properties Dialog Box

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

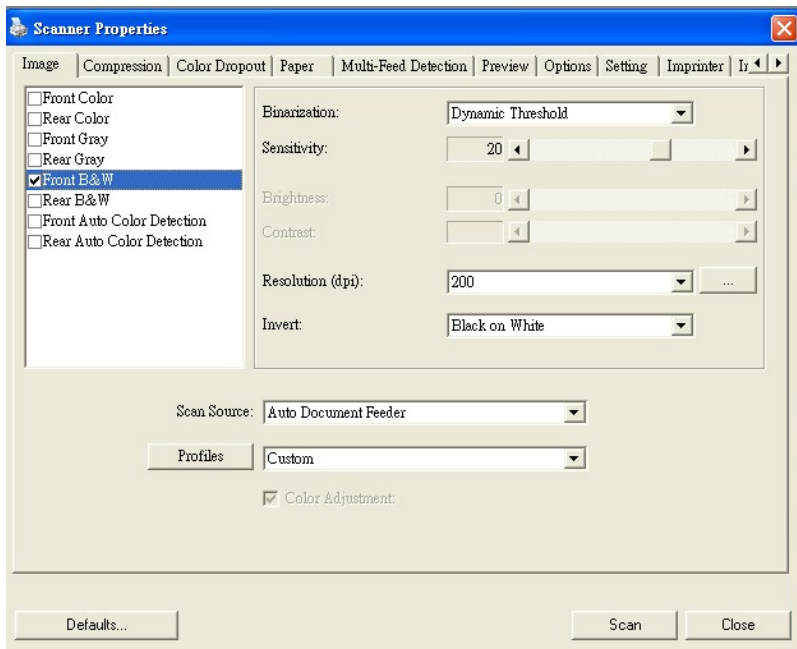
The following table shows the default settings :

<b>Tab name</b>	<b>Default settings</b>
<b>Image</b>	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
<b>Compression</b>	None
<b>Color Dropout</b>	None
<b>Paper</b>	Cropping : Automatic Deskew : Yes Orientation : Portrait OverScan : 0.00 Multifeed Detection : None Unit : Inch
<b>Options</b>	Rotation Degrees : None Blank Page Removal : None Edge Fill : White · 0 mm Image Control Option : None
<b>Setting</b>	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.



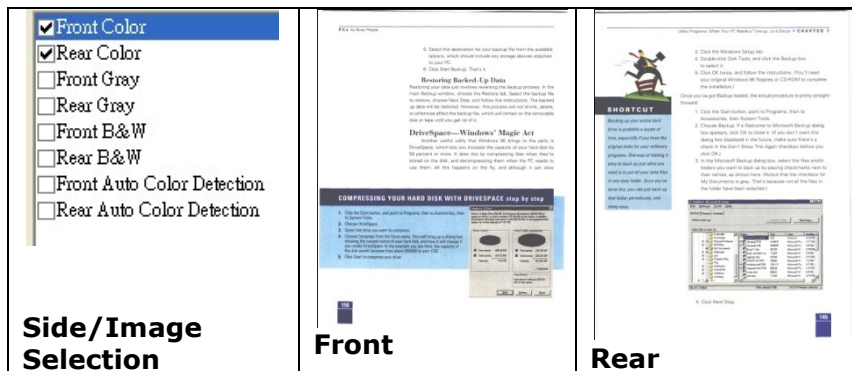
**The Image tab dialog box**

## 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. You can configure the Front and Back sides independently. Note the options vary based on type of scanner.

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





### **Front/Rear Auto Color Detection:**

Click to automatically detect and scan the front or the rear page of your color document in color image mode. If your document is in 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 typically used when you have a mixture of color and non-color document.

Note: If you enable Auto Color Detection for either side, it will be enabled 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.

---

## 4.2.2 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"

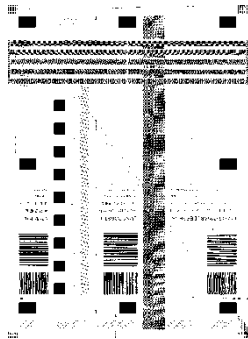
G. NEW Botticelli  
Renaissance  
unprecedented  
first lifesize m  
enormous new

## Error Diffusion Image

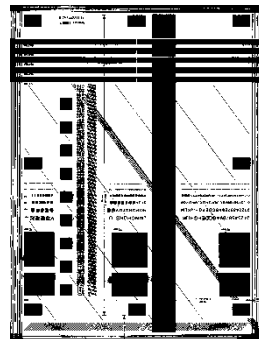
**Threshold**

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.

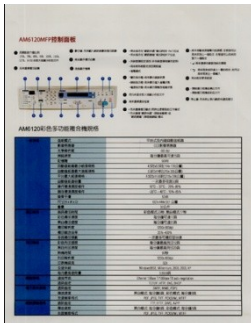


## Brightness

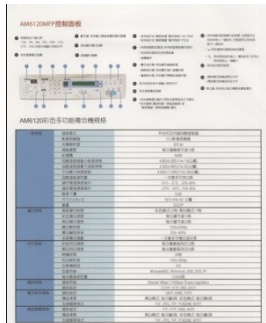
Adjusts the lightness or darkness of an image. The higher the value, the brighter the image. Drag the slider to the right or left to increase or decrease the brightness. The range is from -100 to +100.

## Contrast

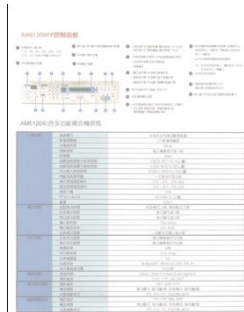
Adjusts the range between the darkest and the lightest shades in the image. The higher the contrast, the bigger the different grayscale. Drag the slider to the right or left to increase or decrease the contrast. The range is from -100 to +100.



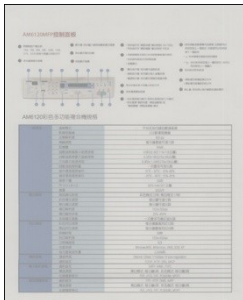
**Brightness: -50**



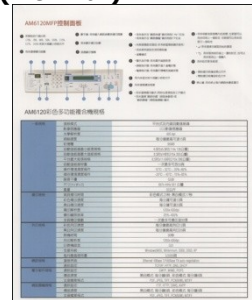
**Brightness: 0  
(Normal)**



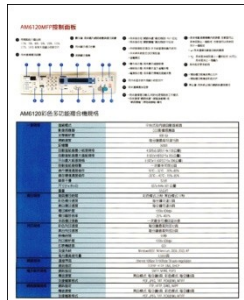
**Brightness: +50**



**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**



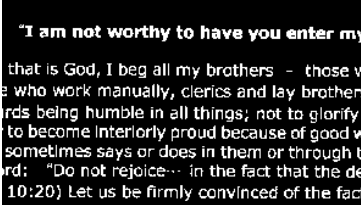
**Resolution: 150 dpi**

---

**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.

---

## **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**

### **4.2.3 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

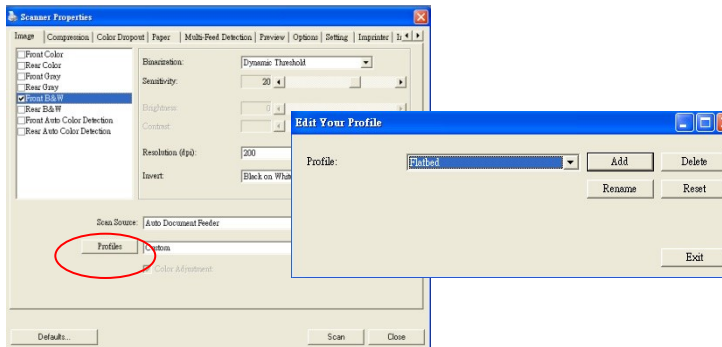
---

## 4.2.6 Editing Profiles

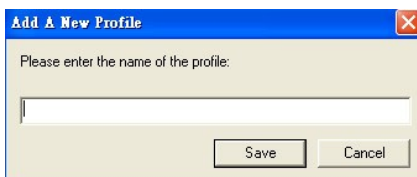
The Scanner Properties dialog box allows you to change and save your frequently used scan settings into a profile. You can edit these profiles by renaming or deleting them.

### 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.



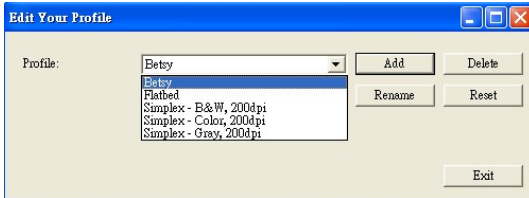
3. Click "Add" to enter the name of the profile and then choose "Save".



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

## To load a profile,

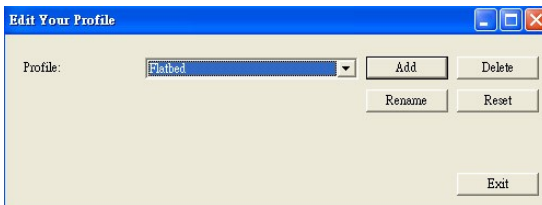
1. From the Image tab dialog box, choose your favorable profile from the "Profiles" dropdown list box.



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.

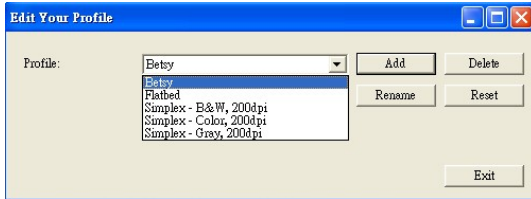


2. Choose the profile you want to delete from the dropdown list box.
3. Click "Delete". A Confirm message "Are you sure you want to delete this profile?" is prompted.
4. Choose "Yes" to delete or "Cancel" to quit.

---

## 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 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.

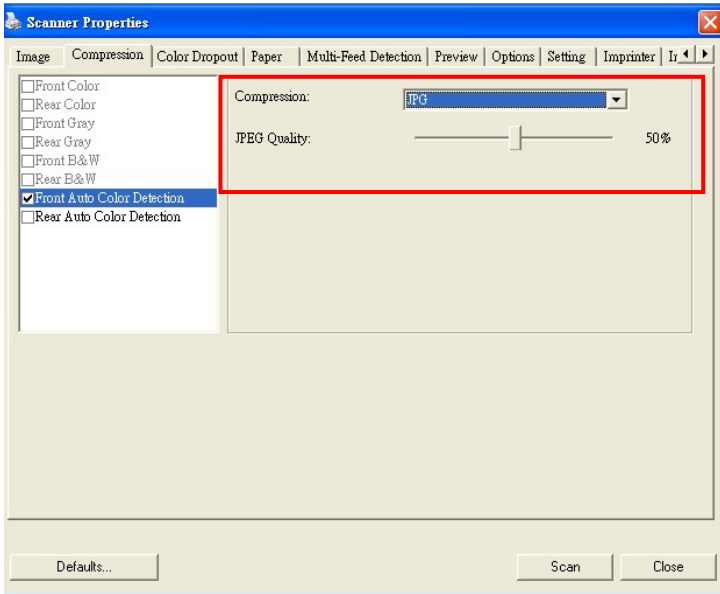
JPEG (Joint Photographic Editor Group). This group developed and lent their name to a file compression standard for color and grayscale images that is widely used by scanners, and software applications. On Microsoft Windows-based systems, a file with the extension .jpg has normally been compressed using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

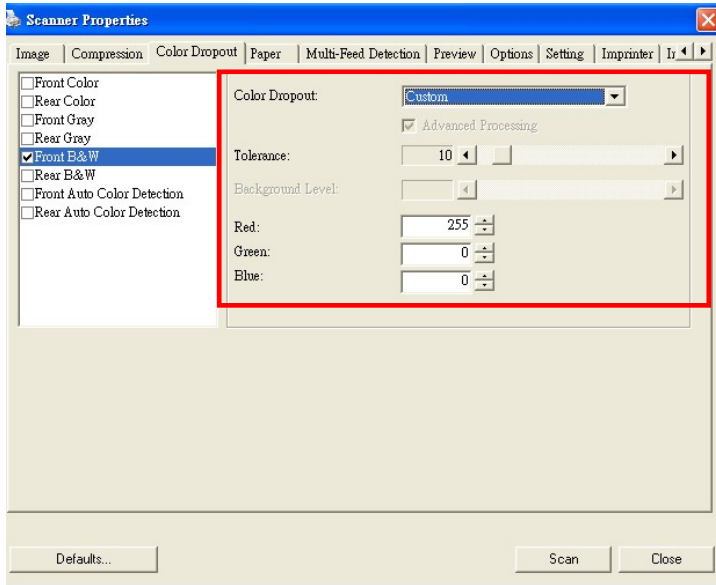
### **4.4.1 Color Dropout Selection**

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**

## 4.4.2 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.**

AM6120彩色多功能複合機規格

一般規格	產品模式	單印式/內嵌/連續/線裝
	產品名稱	CO複合機
	外觀設計	900 mm
	顏色選擇	雙色/標準/彩色/全彩
	重量	9000
	安裝深度(含紙盒及紙張)	4,000/5,000/6,000 mm
	安裝深度(含紙盒及紙張)	4,000/4,000/5,000 mm
	安裝深度(含紙盒)	4,000/4,000/5,000 mm
	安裝深度(含紙盒)	4,000/4,000/5,000 mm
	安裝深度(含紙盒)	4,000/4,000/5,000 mm
顯示規格	顯示器	800 x 480 21" 螢幕
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
	顯示器	800 x 480
打印規格	打印速度	標準/高速/超高速
	打印速度	標準/高速/超高速
	打印速度	標準/高速/超高速
	打印速度	標準/高速/超高速
	打印速度	標準/高速/超高速
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	打印速度	標準/高速/超高速
	打印速度	標準/高速/超高速
網路規格	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
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電子印表機規格	電子印表機	標準/高速/超高速
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	電子印表機	標準/高速/超高速
	電子印表機	標準/高速/超高速
網路規格	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速
	網路規格	標準/高速/超高速

**Original**

AM6120彩色多功能複合機規格

一般規格	產品類型	中台式印表機/複合機
	產品系列	C2 專業商務機
	外觀半徑	600 mm
	網路功能	雙介面網路連接
	式樣	600mm
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
輸出規格	紙張尺寸	A4
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g
	紙張重量	75-105g
網路規格	網路介面	雙介面
	網路速度	10/100Mbps
	網路協定	TCP/IP, FTP, SMB, AFP
	網路安全	無印模式, 雙印模式, 雙印模式, 雙印模式
	網路管理	無印模式, 雙印模式, 雙印模式, 雙印模式
輸出規格	紙張尺寸	A4
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g
電子郵件規格	產品系列	600mm
	式樣	600mm
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
網路規格	紙張尺寸	A4
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g

**Remove Blue, Threshold: 20, Background: 255**

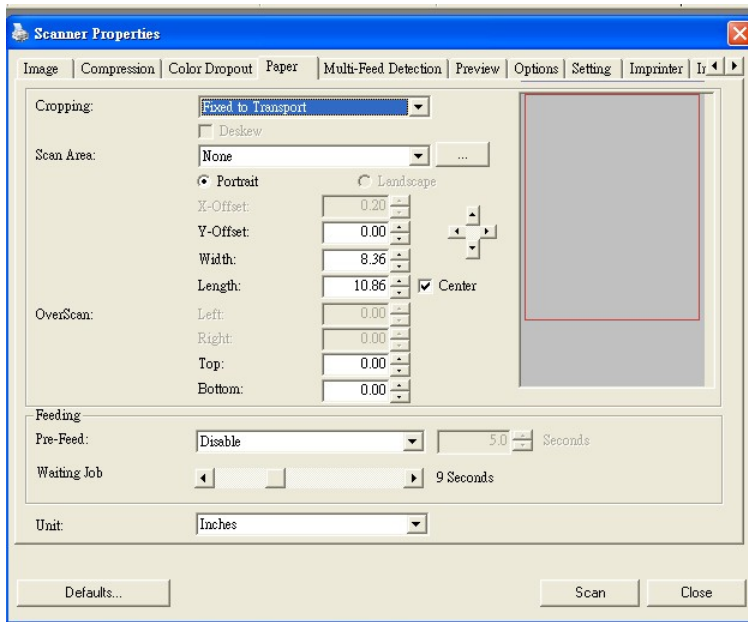
AM6120彩色多功能複合機規格

一般規格	產品類型	中台式印表機/複合機
	產品系列	C2 專業商務機
	外觀半徑	600 mm
	網路功能	雙介面網路連接
	式樣	600mm
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
輸出規格	紙張尺寸	A4
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g
	紙張重量	75-105g
網路規格	網路介面	雙介面
	網路速度	10/100Mbps
	網路協定	TCP/IP, FTP, SMB, AFP
	網路安全	無印模式, 雙印模式, 雙印模式, 雙印模式
	網路管理	無印模式, 雙印模式, 雙印模式, 雙印模式
電子郵件規格	產品系列	600mm
	式樣	600mm
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
	自動送紙器/紙張厚薄	4.58x4.58(114x 116)公釐
網路規格	紙張尺寸	A4
	紙張厚度	75-105g
	紙張重量	75-105g
	紙張厚度	75-105g

**Remove Blue, Threshold: 20, Background Level: 210**

## 4.5 The Paper Tab

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



**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
<b>Automatic</b>	Automatic adjusts the cropping window according to different document sizes. Use this option for batches of mixed-sized documents.
<b>Fixed to Transport</b>	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.
<b>EOP (End of Page) Detection</b>	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.

---

## 4.5.2 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:**

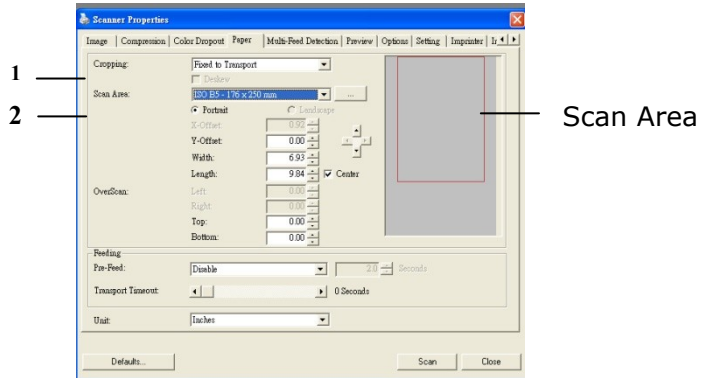
- 1 Within the specified timeout period, if you load your document to the feeder, the scanner starts scanning automatically.
- 

### 4.5.3 Multimode cropping

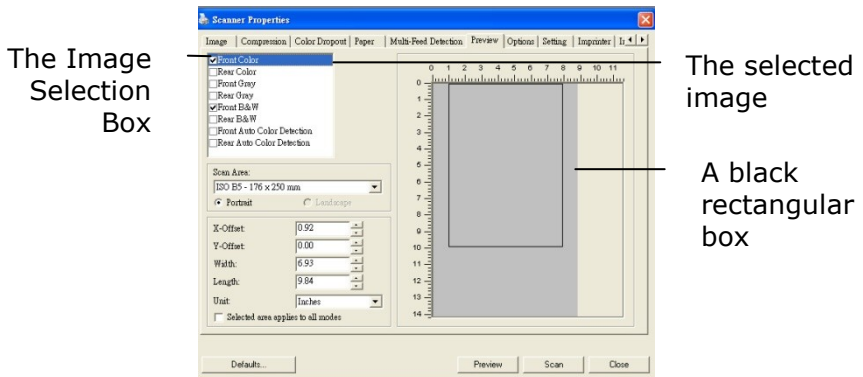
This feature provides flexibility if you are performing a scan that outputs in a more than one mode (B&W, Gray, or Color); you can assign different crop areas on your documents for each color mode. For example, there are applications which require you to store the entire form in B&W and a part of the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

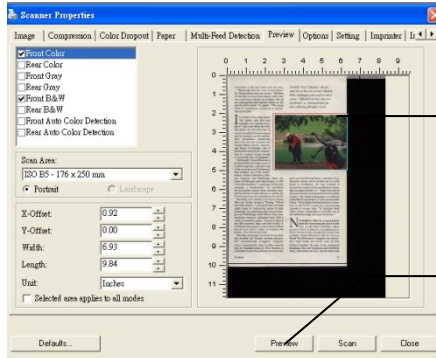
1. On the Paper tab, choose "Relative to Document" or "Fixed to Transport" from the Cropping option.
2. Choose your scan size from the Scan Area option. The selected scan size will be displayed in a red rectangular box. This is also the scan size of your entire document. (If you have not chosen a scan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

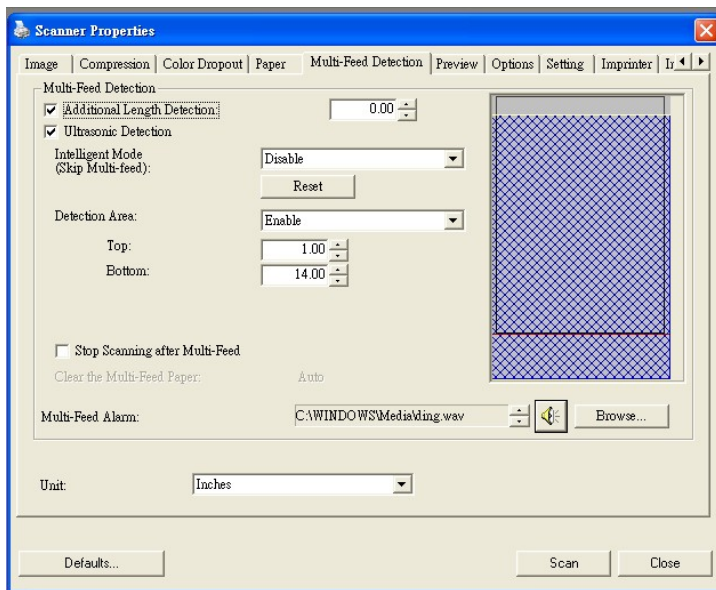


---

## 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**

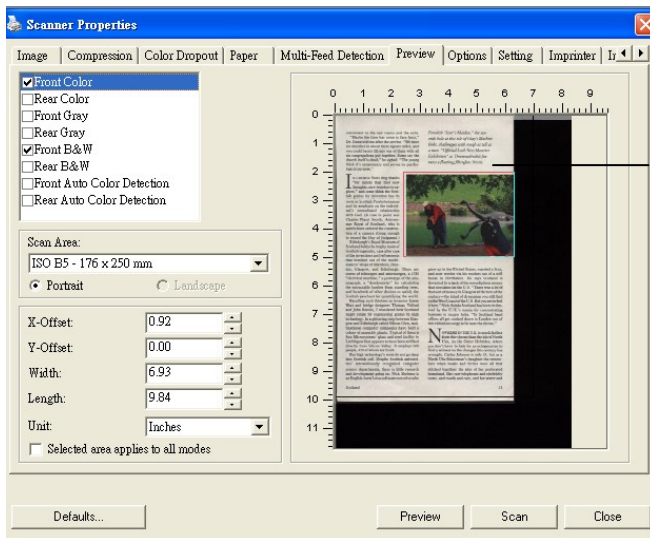
Defines the primary measurement system. **Inches**, **Millimeters**, and **Pixels** are available.

---

## 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.

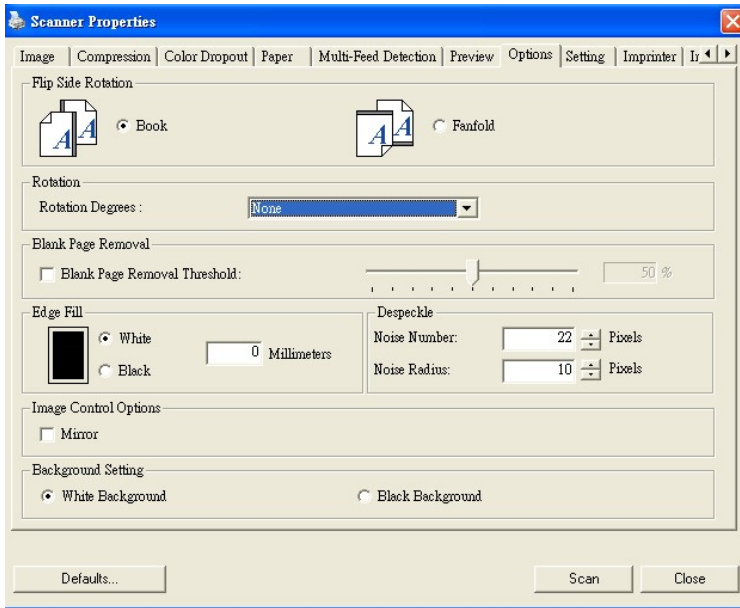
Note: If you choose "Automatic Cropping" on the "Paper Tab", then selecting a scan area on the Preview tab is disabled.



**The Preview Tab**

## 4.8 The Options Tab

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



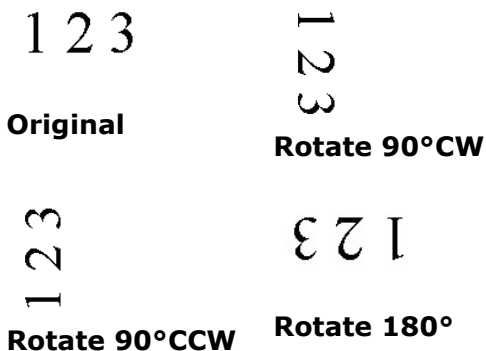
**The Option tab dialog box**



## **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.

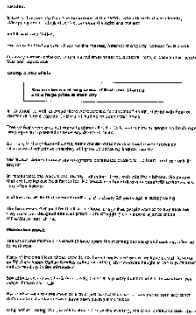
**Auto rotate every even page:** Automatically rotate 180° on every even page. This is especially useful when you scan the inside pages from a book.

## 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.

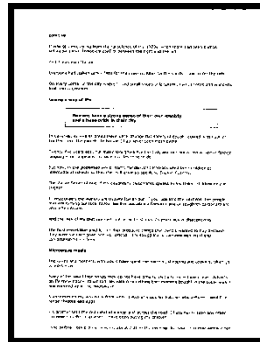
## Edge Fill

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.



Blank page with a white border. The text is faint and mostly illegible, but some words like "Blank page" and "Original" are visible.

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**



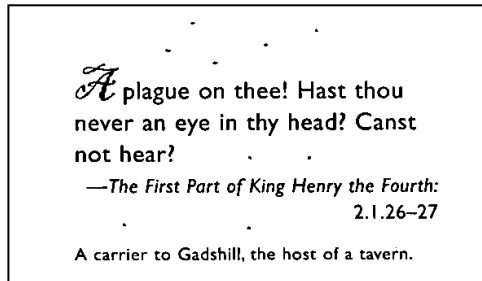
**The Mirror Effect**

---

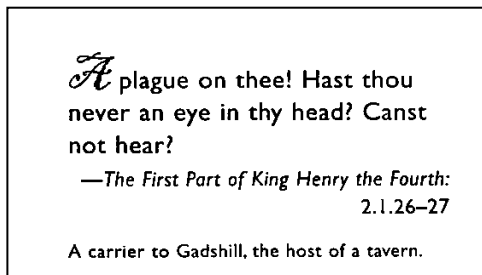
## Despeckle

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:

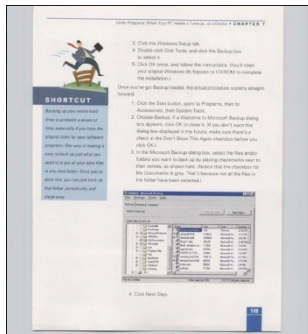
- The function is currently available for Black and White image only.

---

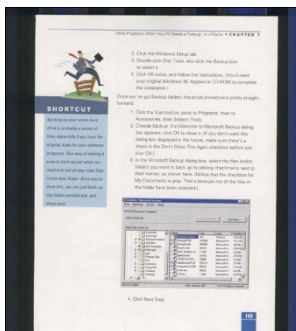
Background This option allows you to set your scan

Setting

background.  
**Choice: White Background, Black Background.**



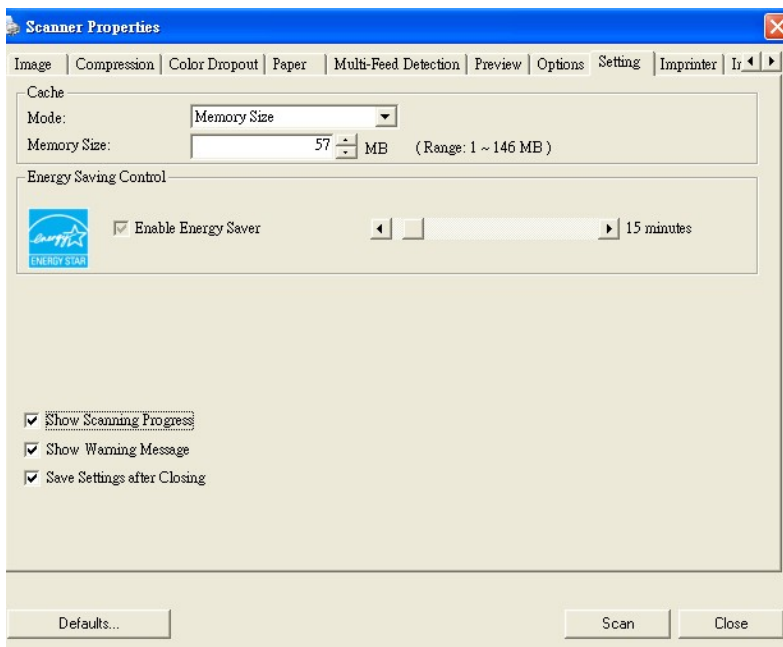
White Background



Black Background

## 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.

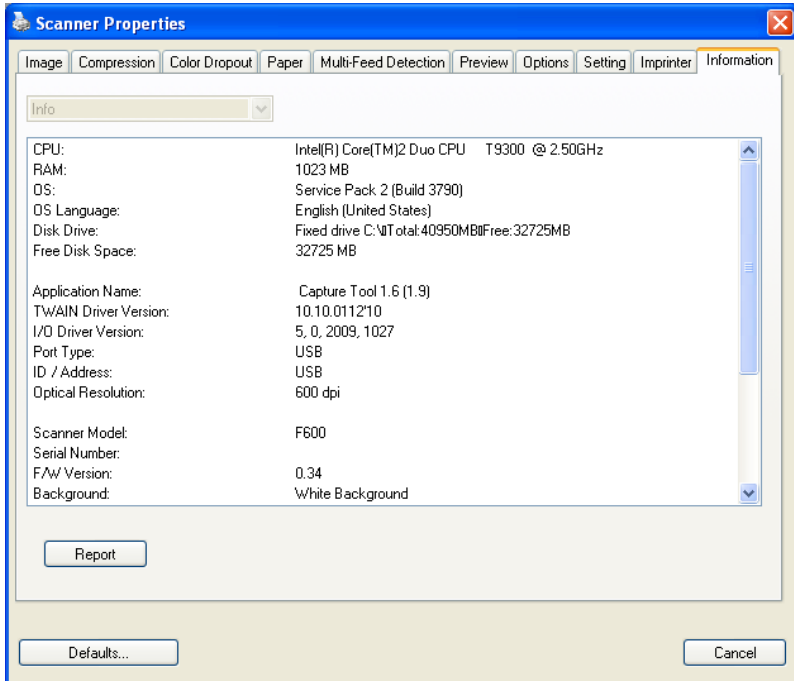
<p><b>Cache</b></p>	<p><b>Mode: None, Page Number, Memory Size.</b></p> <p>This option allows you to assign a specified memory size from the available RAM to process the image data. By specifying a smaller memory size, you can free more memory for other applications you are running. By specifying a larger 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><b>Image Count</b></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> <p>Note: The availability of this feature varies based on type of scanner.</p>

---

<b>Show Scanning Progress</b>	Check and the scanning progress bar will be shown during scanning.
<b>Show Warning Message</b>	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."
<b>Save Settings after Closing</b>	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.

## 4.10 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:\S400) 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.

---

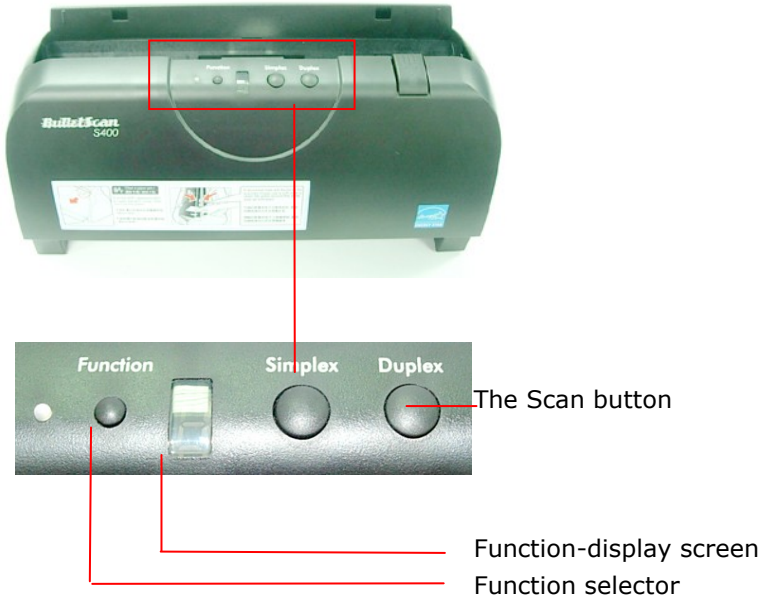
### **Note :**

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

---

# 5. Using the Buttons

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



---

## **5.1 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.

## **5.2 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.

## **6. Maintenance**

### **6.1 Cleaning the ADF**

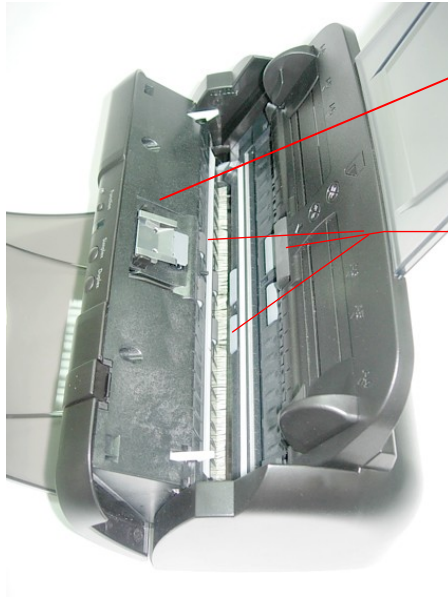
From time to time the ADF pad and feeding rollers may become contaminated with ink, toner particles or paper dust. In this case the scanner may not feed documents smoothly. If this occurs please follow the cleaning procedures to return your machine to its original state.

#### **The Cleaning Procedures**

1. Soak a cotton swab with some isopropyl alcohol. (95%).
2. Press the Paper Jam Clearing button. Open the front door to the left. Wipe the upper feeding roller by moving the swab from side to side. Rotate the roller forward with your finger and repeat the cleaning steps above until the entire roller is cleaned.
3. Wipe the pad in one direction from top to bottom or the other way around. Be careful not to damage the pick springs.
4. Close the scanner front door. Your scanner is now ready for use.



Paper Jam  
Release  
Button

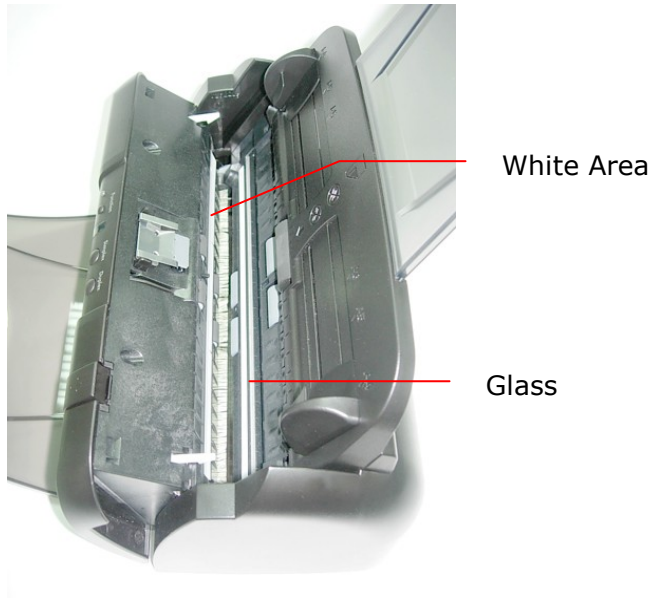


ADF Pad

Feeding  
Roller

## 6.2 Cleaning the Glass

1. Press the Paper Jam Clearing button. Open the front door to the left.
2. Wet a cotton swab with some isopropyl alcohol. (95%)
3. Wipe the glass and the white area as illustrated in below by moving the swab from side to side to rid the dust or dirt.



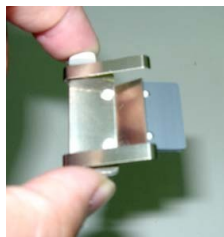
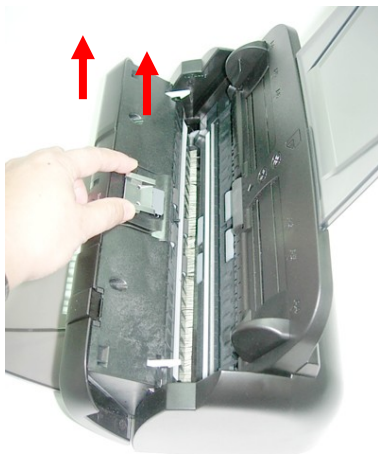
---

## 6.3 Replacing the ADF Snap-in Pad

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

### Disassembling Procedure

1. Press the Paper jam clearing button on the upper-left corner.
2. Gently open the ADF Front cover to the left.
3. Press both arms of the ADF snap-in pad module inwardly with your fingers to pull out the ADF snap-in pad module.



### Assembling Procedure

1. Take out the ADF pad module from the box.
2. Press both arms of the ADF snap-in pad module inwardly with your two fingers.
3. Place it into the holes until it snaps into place.

## 6.4 Replacing the ADF Roller

After scanning approximately 100,000 pages through the ADF, the roller may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the roller with a new one.

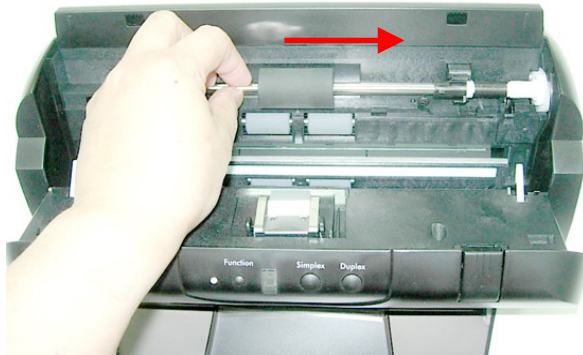
Please follow the procedure below to replace the ADF roller. For ordering the ADF roller, please consult your nearest dealer. After replacing the ADF roller, be sure to click the **"Reset Roller Count"** button in the Scanner Properties dialog box to reset the roller count.

### The Disassembling Procedure

1. Move the tab of the roller face up.



- 
2. Hold and press the roller in the arrow direction as indicated to remove the roller.



---

**Note:**

To install a new ADF roller, please follow the reverse order of the disassembling procedure.

---

## 7. Troubleshooting

### 7.1 Clearing a Paper Jam

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

1. Press the ADF Release Button on the left side. Gently open the Scanner Front Door to the left.
2. Carefully pull the paper out of the ADF unit.
3. Close the scanner front door. Your Scanner is now ready to use.



Paper Jam  
Clearing Button

---

## 7.2 Questions and Answers

### **Question: Scanner reports being jammed, but everything feeds through fine**

Answer: 1) Gently push the paper input tray back until you feel it click back into place

### **Question: Paper becomes jammed during scanning.**

Answer: 1) Open the scanner front door.  
2) Pull out the jammed paper carefully.  
3) Close the scanner front door.

### **Question: More than one sheet of paper is fed into the scanner.**

Answer: 1) Open the scanner front door.  
2) Remove the multi-fed sheets of paper.  
3) Close the scanner front door.  
4) Flatten the corners and edges. Loosen the paper before putting it into the paper guide again.  
5) Check the feeding roller condition. If necessary, follow the cleaning directions in section 5.1 and perform the cleaning.

### **Question: Paper becomes skewed in the scanner.**

Answer: 1) Use the slide guide to keep the paper path straight.  
2) Check the condition of the feeding roller. If necessary, follow the cleaning directions in Section 5.1 and perform the cleaning.

**Question: Why is it my scanned image always comes out too dark?**

- Answer:
- 1) Modify the Gamma setting to 1.8 for your monitor and, when printing, set Gamma to 2.2 for your printer.
  - 2) Use the Brightness setting of the TWAIN user interface to get a brighter image.

**Question: Sometimes it seems the scanner does not detect paper?**

- Answer:
- The scanner paper sensor is located at the center of the paper guide. Please place the document you need to scan on the paper guide and use the slide guides to keep the paper path straight.

---

## 7.3 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](http://www.bulletscan.com)

## 8. Specifications

**All specifications are subject to change without notice.**

Model Number :	BulletScan S400
Scanner Type:	Sheet-fed Duplex Scanner (FF-0608S)
Optical Resolution:	600 dpi*1200 dpi
Scanning Modes:	Black & White Gray scale Color
ADF Capacity:	Up to 50 pages
Document Size:	Letter, legal, A4, B5, A5, business card
Max. Document Size:	8.5"x14" (ADF)
Min. Document Size:	3.5" x 2" (ADF)
Paper Weight:	16 lbs. to 24 lbs.
Interface:	Hi-speed USB 2.0
Power Source:	24V, 2.0A (FF-0608S)
Power Consumption:	<30W (operation) < 6W (standby)
Dimensions: (WxHxD)	156 mm x 308 mm x 145 mm
Weight:	2.3 kgs



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