

Microtek

ScanWizard™ *DI*

Reference Manual

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To obtain optimal results from the Microtek scanning software and user's manual, you should be familiar with such Windows concepts as pointing, clicking, dragging, and selecting from menus and dialog boxes. If these things are new to you, refer to your Microsoft Windows User's Guide.

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Contents

Introduction	1
System Requirements	3
Launching ScanWizard DI	3
Exiting ScanWizard DI	3
ScanWizard DI Control Panel	3
Basic Scenarios	4
Scanning a Stack of Documents	4
Scanning a Single-sheet Document	8
The Main Interface (AP Control Panel)	12
Thumbnail View Window	14
Image View window	14
The Scan Mode	15
Normal Scan	15
Book Scan	16
Card Scan	18
Auto Paper Detection	19
Repeat Scan Period	20
The Scan Setup	21
File Saving Location	22
File Naming Methods	23
Sequential	24
Date+Suffix	24
Text+Suffix	25
Barcode Detection	26
Subsidiary Options	27
File Format Settings	28
JPEG File	28
PDF File	29
TIFF File	29
The Delete Button	30
The Function Buttons	31
OCR	32
E-Mail	33
Print	34

The Scan Setup Interface (TWAIN Driver Control Panel)	35
Preset Settings	37
Scan Source	43
Color Mode	43
Paper Size	45
Resolution	45
Rotate	46
Auto Scan	46
Auto-Crop and Auto-Deskew	47
The Settings Window	49
General Panel	50
Default Button	50
Sides of Material	50
Document Type	51
Double Feed	51
Color Dropout	52
Text Orientation Recognition	53
Remove Blank Page	53
Remove Punch Hole	53
Combine Images	54
Image Process Panel	55
B&W Conversion	56
Threshold	57
Sharpen	58
Descreen	60
Brightness/Contrast	61
Hue/Saturation	61
Gamma	62
Background Correction	62
Scan Quality	63
Shadow/Highlight	63
Automatic Color Restoration	64
Document Enhancement	65
Preferences Panel	66
The Preview Window	67
Preview Button	67
Rulers / Unit of Measurement	67
Preview Area	68

Toolbar	68
Zoom In tool	68
Zoom Out Tool	68
Pan Tool	69
Select Frame Tool	69
Information Button	70
Information	70
Scanner Maintenance	71
Manual	73
About	73
Show/Hide Preview Window	74
Show/Hide Settings Window	74
Programming Function Buttons	75
Starting Up Scanner Button Settings Interface	75
Scanner Button Settings Interface	76
Button	76
Label	76
Function	76
Save	76
Scan To Function	77
Copy Function	78
E-Mail Function	79
OCR Function	80
CardScan Function	82

Introduction

ScanWizard DI is Microtek's scanning software developed exclusively for Document Imaging (DI) scanners. It offers a host of features and image adjustment controls for scanning, ScanWizard DI is easy to use, yet powerful.

- **Preset Setting** — This feature allows you to save the predefined scanning values, and then retrieve them later for scanning same types of materials, which brings fast and convenient access for users.
- **Auto Document Rotation** — With this feature, ScanWizard DI enables every scanned and saved files present in a readable direction based on a specific OCR language selected. No more fuzzy editing software is needed.
- **Paper Type*** — This feature allows you to specify the thickness of paper in use, preventing the happening of paper jams while documents are fed through the ADF.
- **Double Feed*** — This feature allows your scanner to detect when two or more pages have been fed into the scanner at the same time, which helps prevent lost images when scanning larger batches of documents.
- **Remove Blank Page** — With this feature, blank pages are automatically detected and removed by the software when scanning a stack of documents. It is quite helpful especially when users are scanning double-sided documents and some of the pages only have text on the front side.
- **Remove Punch Hole*** — With this feature, the software automatically detects the location of the punch holes on the scanned documents and fills them in white. This function works for most common hole puncher standards.
- **Smart Threshold** — This feature enables the software to evaluate each document to find out the optimal settings to generate the highest image quality. This effect can be used best when scanning faint text, shaded backgrounds or color background documents.
- **Book scan** — With this feature, ScanWizard DI automatically arrange scanned pages in order and thus you can easily scan a physical book into a digital book in just simple steps.
- **Automatic Color Restoration*** — The Automatic Color Restoration feature is part of Microtek's ColoRescue™ system for bringing faded colors back to life.
- **Auto-crop and auto-deskew** — The auto-crop function automatically detects the size of the original image, crops the full scan frame to fit the image, and removes unwanted black borders. The auto-deskew function automatically corrects distorted images for proper alignment.

- **Quality compression control** — This feature allows you to decide the saved images in a size-matter or quality-matter.
- **Combine Images** — This feature enables the software to merge two separate images as one united image. With this function, you do not need other after-scan editing program to modify your scanned documents.
- **Repeat scan period**— This feature allows your scanner to perform a scan job automatically in a predefined time range. It is specifically convenient for those whose scanners are distant away from their computer workstation.
- **Duplex scanning support*** — With this feature, ScanWizard DI allows the scanning of both sides of a document at the same time.
- **Calibration Settings*** — This feature allows you to decide if you want to skip the calibration before scanning when using each time. It enormously cut the idle time generated by the same and repeated calibrating action.
- **Smart duplex scanning support*** — With this feature, ScanWizard DI enables simplex scanners to scan both sides of a document by one simple click. It efficiently upgrades your present simplex scanner to a duplex scanner, saving a lot of effort and money.
- **Paper count** — The paper count allows users to keep track of all scan actions from both flatbed and ADF. This feature helps to estimate when you may need to replace the rubber or separation pad, or to apply maintenance and service to your scanner, making more effective use of your scanner.
- **Save multiple images as a single file** — This advanced feature allows users to save multiple scanned images as a single file, depending on the number of the scanned images that are defined for document archival.
- **Sides of Materials** — This feature allows you to specify settings for different sides of papers separately when the Scan Source option is set as the ADF (Duplex).
- **Document Enhancement*** — This feature brings out and improves the readability of text in a document that includes other elements such as color, pictures, or graphs.
- **Programmable function buttons that can be customized***—ScanWizard DI lets you assign functions to function buttons for easier access.

** These functions are available only for scanners that implement this feature.*

System Requirements

- Windows XP, Windows 7 or Windows 8
- 1 GB RAM required; 2 GB or more suggested for better performance
- Free hard disk space as required by the size of your scanned images and for additional working files
- DVD-ROM drive (internal or external)
- “Thousands of colors” display or better
- Microtek scanners that support ScanWizard DI



Launching ScanWizard DI

To launch ScanWizard DI, double-click the ScanWizard DI icon on the Windows desktop, or choose *Start, Programs, Microtek ScanWizard DI for Windows*, then *ScanWizard DI*.

Exiting ScanWizard DI

To exit ScanWizard DI, click the Exit button “X” located at the top right corner of the ScanWizard DI control panel.

ScanWizard DI Control Panel

ScanWizard DI consists of two major control panels: AP control panel (Main interface) and TWAIN driver control panel (Scan Setup interface).

- **AP control panel (Main interface):** This control panel appears only when the ScanWizard DI is launched as a stand-alone program.
- **TWAIN driver control panel (Scan Setup interface):** This control panel appears when the ScanWizard DI is launched from an application program (such as Adobe Photoshop) or brought up by pressing the Scan Setup button in the AP control panel.

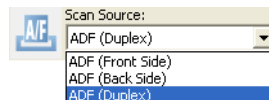
Basic Scenarios

This section provides some basic scanning scenarios with ScanWizard DI, including scanning a stack of documents and scanning a single-sheet document. Details on each topic are discussed in later chapters.

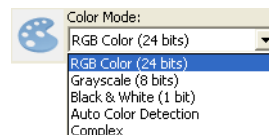
Scanning a Stack of Documents

1. Place the stack of documents to be scanned on the document feed tray.
2. Launch ScanWizard DI as a stand-alone program by clicking on the *ScanWizard DI* icon on the desktop.
3. Click the *Scan Setup* button in the interface to activate the Scan Setup interface.
4. In the Scan Setup interface, follow the steps below to specify your basic settings.

- a) Select *ADF (Front Side)*, *ADF (Back Side)* or *ADF (Duplex)* in the *Scan Source* as your image input device.

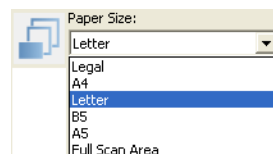


- b) Select the appropriate image type in the *Color Mode* as your image output type.

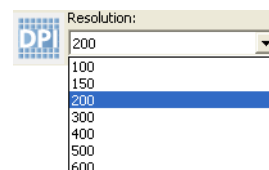


- Select *RGB Color (24 bits)* to scan the image in color.
- Select *Grayscale (8 bits)* to scan the image in grayscale.
- Select *Black & White (1 bit)* to scan the image in black-and-white.
- Select *Auto Color Detection* to scan the image in color or non-color based on the automatic judgement and detection of the system.
- Select *Complex* to scan the image in color, grayscale or non-color based on the customization. Refer to the “The Scan Setup Interface” section in the back for how to customize a desired image output type.

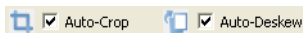
- c) Select a dimension in the *Paper Size* as your preview image size.



- d) Select a desired resolution in the *Resolution* for your image output resolution.



- f) If “Auto-crop” & “Auto-deskew” is selected, the scanner automatically detects the size of the original image, crops the full scan frame to fit the image, and removes unwanted black borders after the scan, as well as corrects the distorted image for proper alignment.



5. Click the *Preview* button to perform a preliminary view of the entire image. When done, a preview image appears in the Preview window. Do not forget to put the document back on the document feed tray.
6. Go to the “General” panel by clicking the *General* tab in the Settings window. Specify the settings for your requirements there.

- a) If necessary, specify the image settings for the front or back side of documents separately by using the *Sides of Material* control when Scan Source is set as “ADF (Duplex)”.

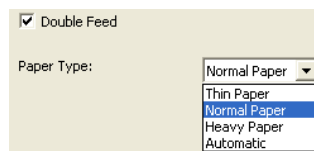


- b) Select the image type in the *Document Type* as your input image type.

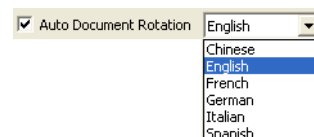


- Select *Photo* to scan color prints.
- Select *Text* to scan text.

- c) If necessary, check “Double Feed”, then select a suitable paper thickness for the ultrasonic double-feed detection in the *Paper Type* options menu to prevent multiple pages from being fed together while papers are fed through the ADF.



- d) If necessary, check “Auto Document Rotation” to ensure the scanned images in a readable orientation. When it is checked, you can select the preferred language used as an identification in the options menu.



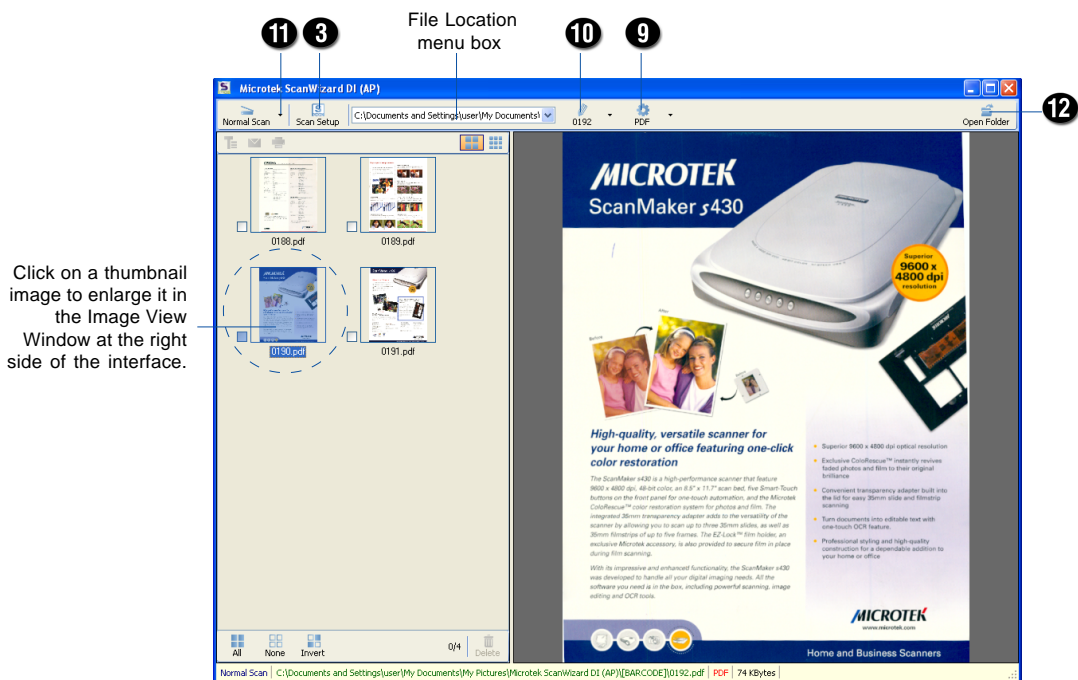
- e) If necessary, check “Remove Blank Page” and “Remove Punch Hole” to enhance the quality of the scanned images.

7. If necessary, go to the “Image Process” panel by clicking the *Image Process* tab in the Settings window. Use the image correction tools presented there to enhance the image quality according to your specific requirements.
8. Click the *OK* button to close the Scan Setup interface and return to the Main interface of ScanWizard DI.

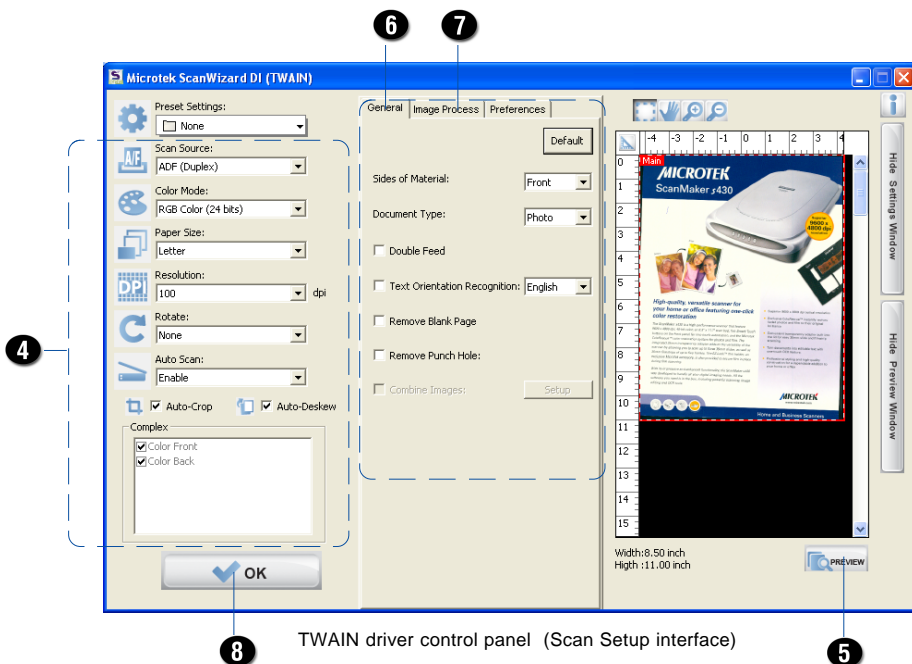
9. In the Main interface, click the *File Format* menu button to select a file format for the scanned images.
10. In the Main interface, click the *File Name* menu button to specify a file naming method for the scanned images.
11. In the Main interface, select and click the *Normal Scan* button to start scanning.

When done, the scanned images will be automatically saved into the folder defined in the File Location menu box. At the same time, the scanned images will be displayed in thumbnail sizes in the Thumbnail View window and labeled with the file name and file format specified earlier.

12. Click the *Open Folder* button to locate the scanned images if you want to view.



AP control panel (Main interface)

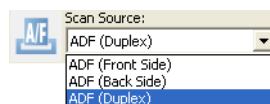


TWAIN driver control panel (Scan Setup interface)

Scanning a Single-sheet Document

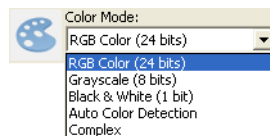
1. Place the single-sheet document to be scanned on either the scanner glass surface, or on the document feed tray.
2. Launch ScanWizard DI as a stand-alone program by clicking on the *ScanWizard DI* icon on the desktop.
3. Click the *Scan Setup* button in the interface to activate the Scan Setup interface.
4. In the Scan Setup interface, follow the steps below to specify your basic settings.
 - a) Select your image input device in the *Scan Source*.

- Select *Flatbed* if you place the document on the scanner's glass surface.
- Select *ADF (Front Side)*, *ADF (Back Side)* or *ADF (Duplex)* if the document is fed from the scanner's document feed tray.

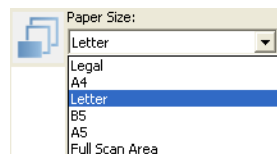


- b) Select the appropriate image type in the *Color Mode* as your image output type.

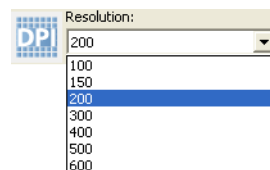
- Select *RGB Color (24 bits)* to scan the image in color.
- Select *Grayscale (8 bits)* to scan the image in grayscale.
- Select *Black & White (1 bit)* to scan the image in black-and-white.
- Select *Auto Color Detection* to scan the image in color or non-color based on the automatic judgement and detection of the system.
- Select *Complex* to scan the image in color, grayscale or non-color based on the customization. Refer to the “[The Scan Setup Interface](#)” section in the back for how to customize a desired image output type.



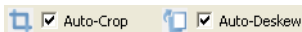
- c) Select a dimension in the *Paper Size* as your preview image size.



- d) Select a desired resolution in the *Resolution* for your image output resolution.



- f) If “Auto-crop” & “Auto-deskew” is selected, the scanner automatically detects the size of the original image, crops the full scan frame to fit the image, and removes unwanted black borders after the scan, as well as corrects the distorted image for proper alignment.



5. Click the *Preview* button to perform a preliminary view of the entire image. When done, a preview image appears in the Preview window. Do not forget to put the document back on the document feed tray.
6. Go to the “General” panel by clicking the *General* tab in the Settings window. Specify the settings for your requirements there.

- a) If necessary, specify the image settings for the front or back side of documents separately by using the *Sides of Material* control when Scan Source is set as “ADF (Duplex)”.

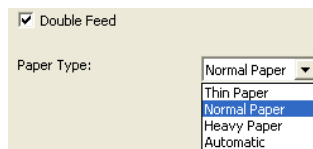


- b) Select the image type in the *Document Type* as your input image type.

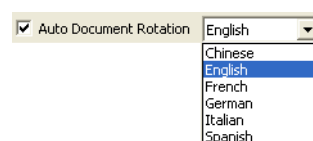


- Select *Photo* to scan color prints.
- Select *Text* to scan text.

- c) If necessary, check “Double Feed”, then select a suitable paper thickness for the ultrasonic double-feed detection in the *Paper Type* options menu to prevent multiple pages from being fed together while papers are fed through the ADF.



- d) If necessary, check “Auto Document Rotation” to ensure the scanned images in a readable orientation. When it is checked, you can select the preferred language used as an identification in the options menu.

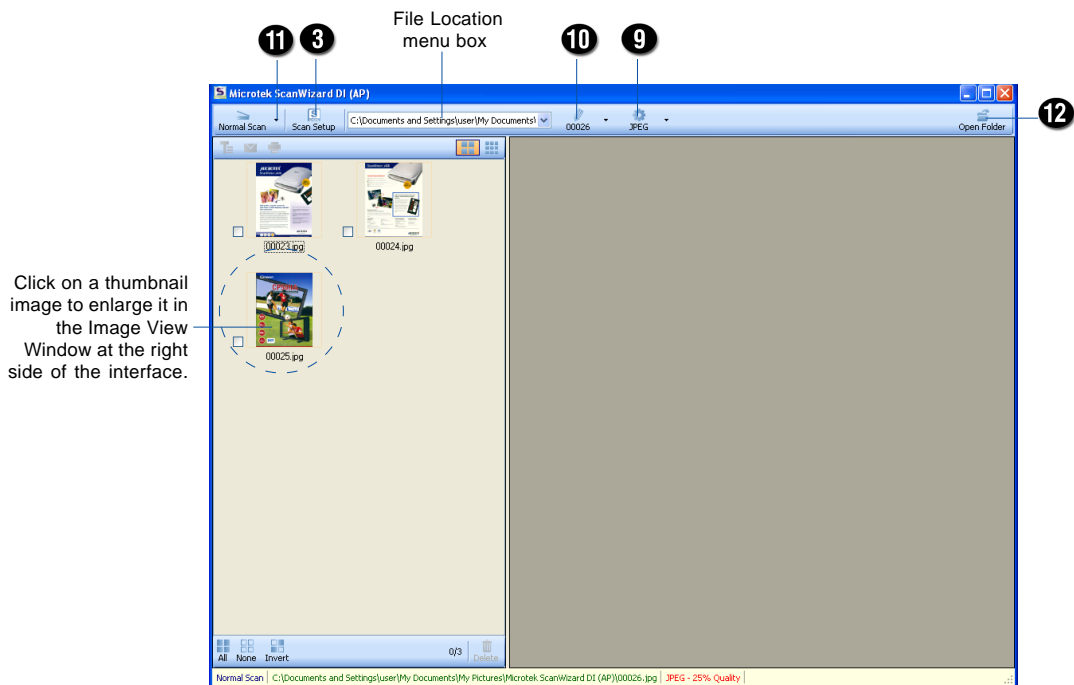


- e) If necessary, check “Remove Blank Page” and “Remove Punch Hole” to enhance the quality of the scanned images.
7. If necessary, go to the “Image Process” panel by clicking the *Image Process* tab in the Settings window. Use the image correction tools presented to enhance the image quality according to your specific requirements.
8. Click the *OK* button to close the Scan Setup interface and return to the Main interface of ScanWizard DI.

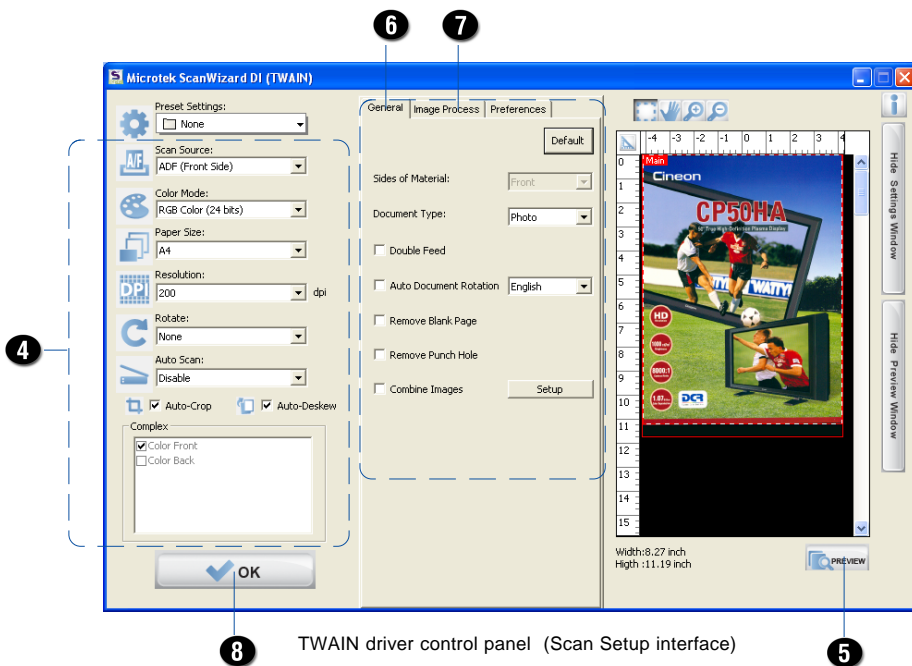
9. In the Main interface, click the *File Format* menu button to select a file format for the scanned images.
10. In the Main interface, click the *File Name* menu button to specify a file naming method for the scanned images.
11. In the Main interface, select and click the *Normal Scan* button to start scanning.

When done, the scanned images will be automatically saved into the folder defined in the File Location menu box. At the same time, the scanned images will be displayed in thumbnail sizes in the Thumbnail View window and labeled with the file name and file format specified earlier.

12. Click the *Open Folder* button to locate the scanned images if you want to view.



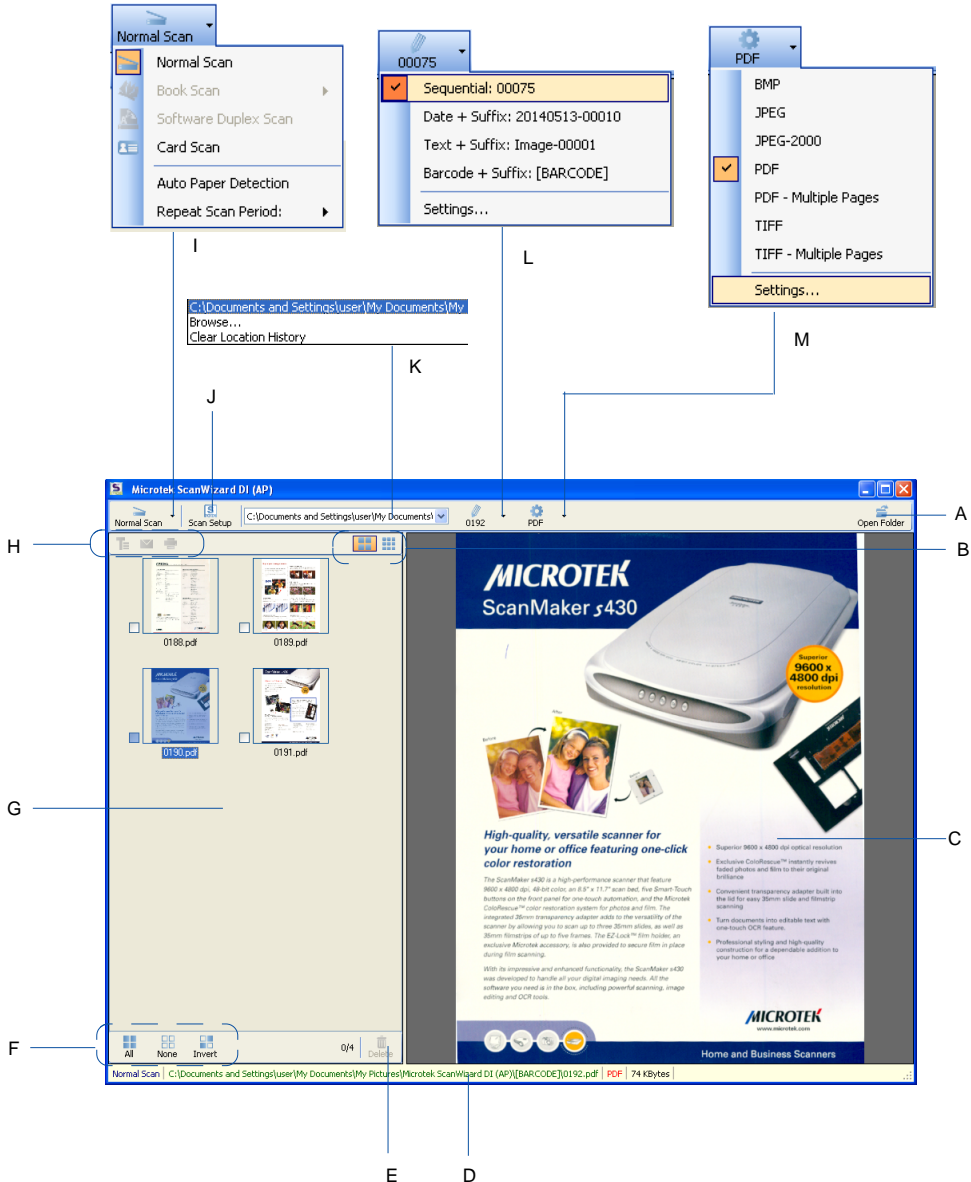
AP control panel (Main interface)



TWAIN driver control panel (Scan Setup interface)

The Main Interface (AP Control Panel)

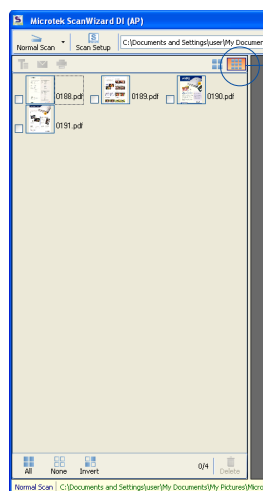
The Main interface (AP control panel) appears only when the ScanWizard DI is launched as a stand-alone program. This interface guides users to explore file settings and scan functions for controlling the scanned images.



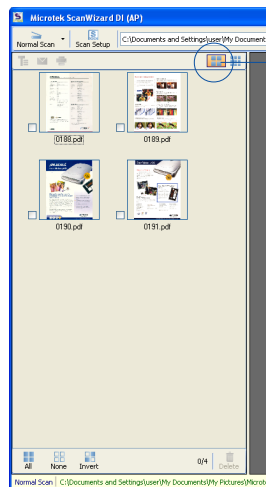
- A. Open Folder button: Clicks to view the default or specified destination folder where stores the scanned images.
- B. Thumbnail image buttons: Clicks to change the displaying sizes of thumbnail images.
 - Large Thumbnail button: Clicks to have a large view of thumbnail images.
 - Small Thumbnail button: Clicks to have a small view of thumbnail images.
- C. Image View window: Displays a selected thumbnail image.
- D. Status bar: Displays the information pertinent to the operation which will be performed.
- E. Delete button: Clicks to remove the selected image files from the Thumbnail View window or from both the Thumbnail View window and the assigned folder simultaneously.
- F. Selection tools: Clicks to select/deselect images in the Thumbnail View window.
 - All: Clicks to select all images in the Thumbnail View window.
 - None: Clicks to deselect all images in the Thumbnail View window.
 - Invert: Clicks to select the images which are not marked as “selected” in the Thumbnail View window.
- G. Thumbnail View window: Displays thumbnail views of scanned and saved images.
- H. Function buttons: Clicks to apply the scanned and selected images to the use of OCR, E-mail or Copy.
- I. Scan mode menu button: Clicks to select a scan mode, such as Normal Scan, Book Scan, Card Scan, Software Duplex Scan and so on.
- J. Scan Setup button: Clicks to bring up the Scan Setup interface for detail scan settings.
- K. File Location menu box: Clicks to select a folder to save the scanned images.
- L. File Name menu button: Clicks to name the scanned images with predefined formats in customized numeric orders and text strings.
- M. File Format menu button: Clicks to select a type of file format or to specify a file compression level when saving your scanned images.

Thumbnail View Window

This window is used to display the image files, in either large or small thumbnail sizes, scanned and saved in ScanWizard DI. You can browse and navigate all the image files displayed in this window and then decide if you want to keep those files in your working directory after you perform final scans.



Click it to display the thumbnail images in small icons



Click it to display the thumbnail images in large icons

Image View Window

This window is used to display the image file marked in the Thumbnail View window with a large displaying size of image.

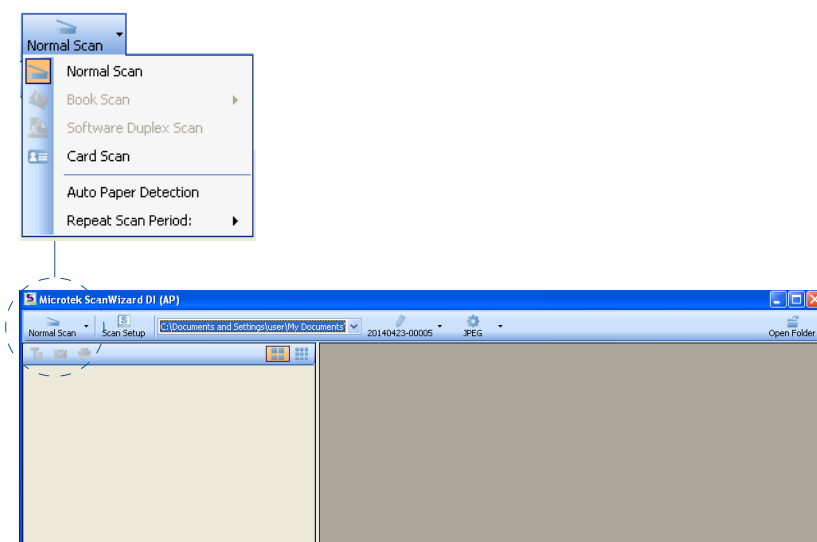


Click on a thumbnail image to enlarge it in the Image View Window at the right side of the interface.

The Scan Mode

The ScanWizard DI provides several scan modes. These scan modes allow you to execute a different scan job based on the type of document to be scanned, and let you to select an auto scan mode to be applied for your scan. These modes include Normal Scan, Book Scan, Card Scan, Software Duplex Scan, as well as Auto Paper Detection and Repeat Scan Period of two auto scan modes.

To choose a scan mode, click the arrow icon next to the Scan mode button (Normal Scan button by default) and then select a scan mode you want to use from the Scan mode drop-down menu. When done, the selected scan mode appears at the top of the interface with a scan icon shown .



Normal Scan

The Normal Scan mode allows you to perform the final scan of your documents and send the scanned images into your chosen folder. This is default scan mode when the ScanWizard DI is launched for the first time.

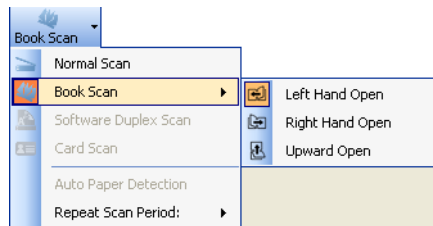
Please take note that even when you have switched the Scan mode button into “Normal Scan”, you still need to press it again to carry out your scan job.

Book Scan

The Book Scan mode aids you to scan a book step by step in graphs. This mode is available only when the Scan Source is set as “Flatbed” and your scanner supports this feature.

To access the Book Scan mode,

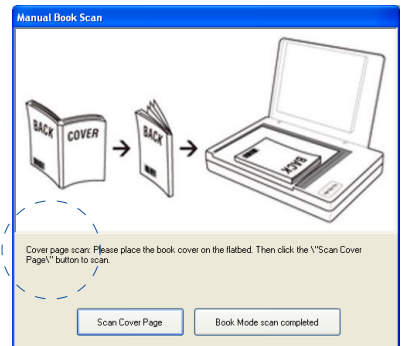
1. Choose “Book Scan” from the Scan mode drop-down menu. From an appearing submenu, select the opening direction for your book. When done, the selected option will be highlighted and the Book Scan mode button appears at the top of the interface.



2. Press the Book Scan mode button to activate the Book Scan mode.

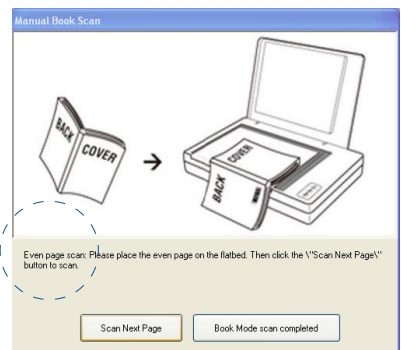
A window appears on the screen to guide you to put the **cover page** of the book on the scan bed.

Follow the instructions and graphs there to put the cover page on the scan bed. When done, press the “Scan Cover Page” button to start scanning of the cover page.



3. When the scan is complete, the window will guide you to put the **even page** of the book on the scan bed.

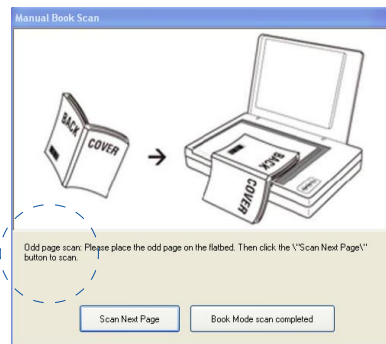
Follow the instructions and graphs there to put the even page on the scan bed. When done, press the “Scan Next Page” button to start scanning of the even page.



4. When the scan is complete, the window will guide you to put the **odd page** of the book on the scan bed.

Follow the instructions and graphs there to put the odd page on the scan bed. When done, press the “Scan Next Page” button to start scanning of the odd page.

5. Repeat step 3 and 4 until you finish scanning of all pages in your book. When done, press the “Book Mode scan completed” button to finish scanning the book.



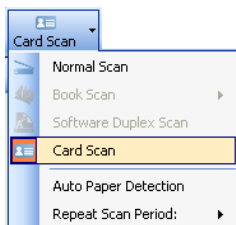
Note:

1. Please follow the instructions and graphs in the “Manual Book Scan” window to scan pages in your book orderly. Otherwise, the scanned and saved pages may be presented in wrong directions.
2. When the “Barcode Detection” and “Remove Blank Page” options are checked in the control panel and if the “Book Scan” option is checked at this moment, a pop-up window appears to remind you that these two functions will not work if you activate the Book Scan.

Card Scan

The Card Scan mode allows you to perform the final scan of hard-copied cards, such as credit cards and membership cards, and send the scanned images into your chosen folder automatically. This mode is available only for scanners (e.g., ArtixScan DI 6240S/6250S/6260S) that support card scanning.

To access the Card Scan mode, select “Card Scan” from the Scan mode drop-down menu. When done, the Card Scan mode will be highlighted and shown at the top of the interface.



Please take note that even when you have switched the Scan Mode button into “Card Scan”, you still need to press it again to carry out your scan job.

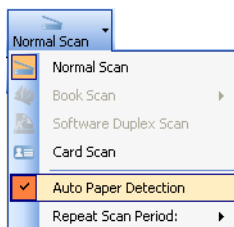
Conveniently, if your scanner supports card scanning, you do not need to go to the Scan Setup interface for scan settings. Just switch the scan mode to the Card Scan mode and then press the Card Scan mode button again. The system will perform a default setting for card scanning automatically.

Auto Paper Detection

The Auto Paper Detection mode allows you to activate the Auto Scan function on the Scan Setup interface directly. This mode is available only for scanners (e.g., ArtixScan DI 6240S/6250S/6260S) that support auto scanning.

To access the Auto Paper Detection mode,

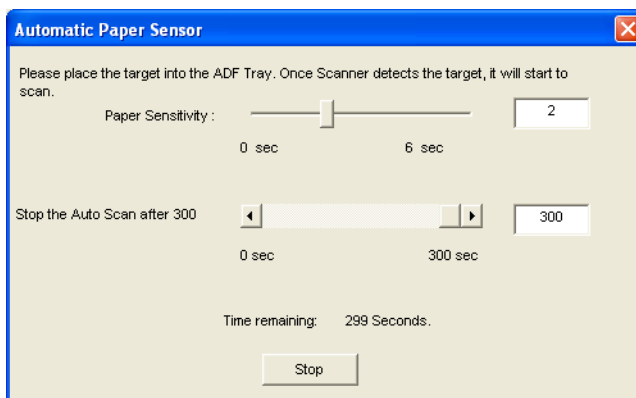
1. Choose “Auto Paper Detection” from the Scan mode drop-down menu. When done, the selected mode will be highlighted and marked by an arrow.



2. Put the document to be scanned into the ADF or on the scan bed; then, press the Normal Scan mode button. Once the scanner detects the document, the scanner will start scanning automatically.

When the Normal Scan button is pressed, a window appears on the screen to remind you to put the document to be scanned into the ADF or on the scan bed. By dragging the slider on the Paper Sensitivity slide bar, you can specify the time interval (among 0 and 6 seconds) to control the auto scan according to your preferences.

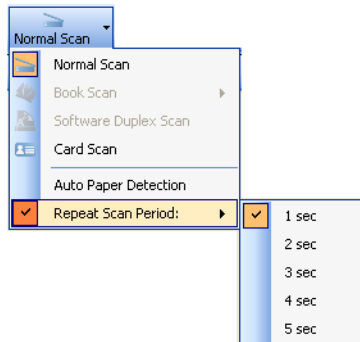
Also, you can specify the time interval (among 0 and 300 seconds) to stop the auto scan there. To stop the auto scan immediately, click the Stop button at the bottom of the window.



Repeat Scan Period

The Repeat Scan Period mode allows you to perform the automatic scan according to the time interval selected. The auto scan interval is from 1 to 5 seconds.

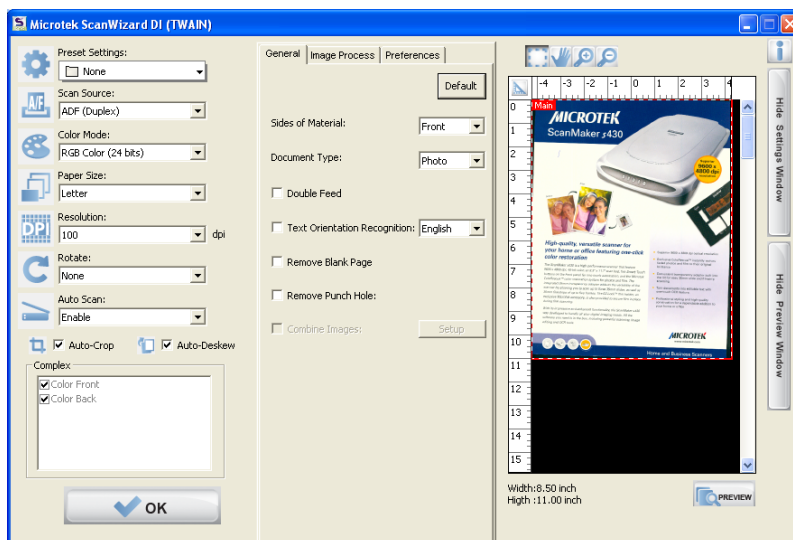
To access the Repeat Scan Period mode, choose “Repeat Scan Period ” from the Scan mode drop-down menu. From an appearing submenu, select a desired time interval setting. When done, the selected mode will be highlighted and marked by an arrow.



The Scan Setup

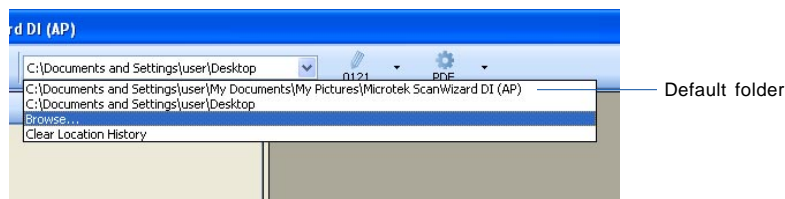
The Scan Setup interface includes 1) scanner settings for controlling the scanner, 2) scanning parameters and image corrections tools for outputting your scanned images, 3) and a preview window for previewing the specified area or entire image.

For more information, see the section of the manual on *The Scan Setup Interface (TWAIN Driver Control Panel)*.



File Saving Location

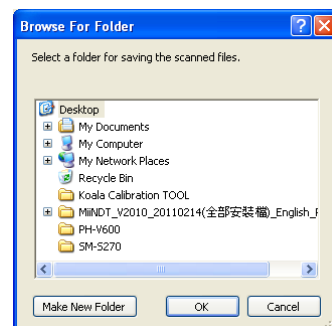
The File Location menu box allows you to save the scanned image to the default folder where ScanWizard is installed or to your chosen folder.



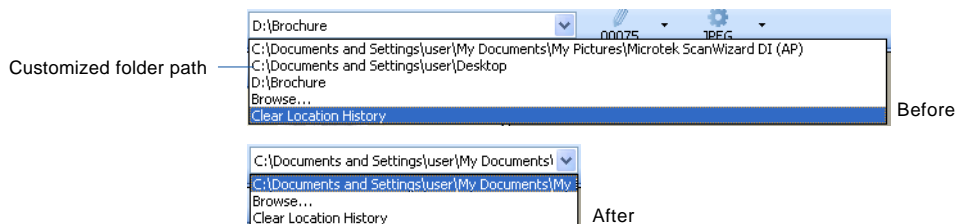
Click the File Location menu box and you will see a folder path appearing at the top of the list which is the default folder assigned automatically by the system to store the scanned images.

To specify your own folder path, select “Browse” from the list of the menu box. A window containing destinations for saving paths appears on the screen. Toggle through these folders and select the one you want to use; then, click the OK button.

Click the File Location menu box again, and you will see the folder you just specified appearing in the list of the menu box.



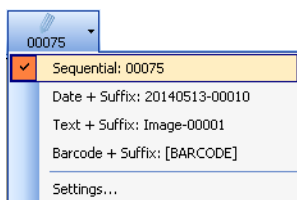
To remove created folder paths, select “Clear Location History” from the list of the menu box. All created folder paths will be removed from the list of the menu box at one time.



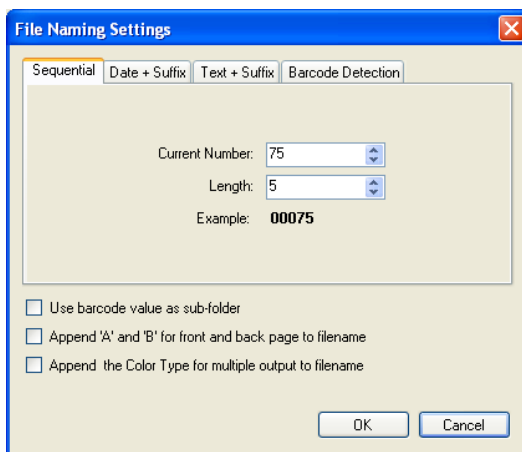
File Naming Methods

The File Name menu button allows you to name the scanned images with a predefined file format in customized numeric orders and text strings. You can find all requirements and limitations of file names assigned to images scanned by ScanWizard DI here.

ScanWizard DI provides four methods for naming your scanned images: Sequential, Date+Suffix, Text+Suffix and Barcode Detection. To set up a file name for your scanned image, click the File Name menu button and then select “Settings” from its drop-down menu.

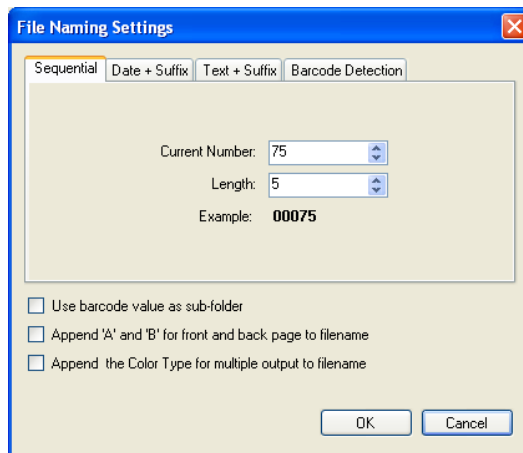


The File Naming Settings window will appear on the screen. Click any of the tabs at the top of the window to customize the settings for file names according to your specific requirements.



Sequential

This method allows you to name your scanned images by using a counting sequence of numbers.

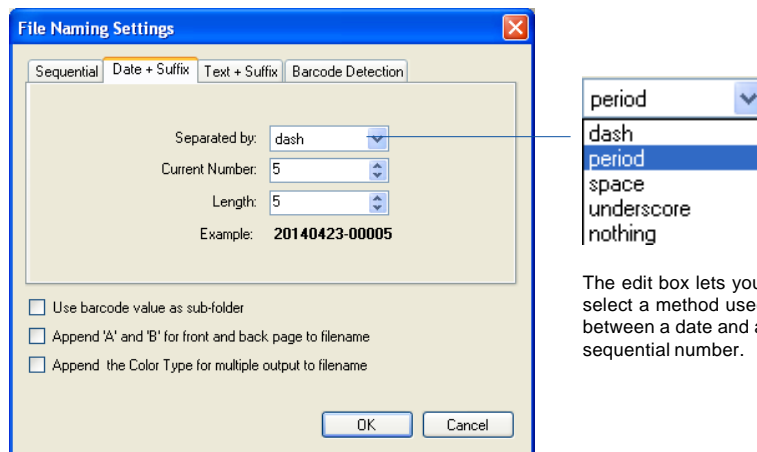


Current Number: This edit box lets you to choose the number you want to use for the image to be scanned next.

Length: This edit box lets you to choose the total length for your scanned image file. The value ranges from 1 to 10.

Date+Suffix

This method allows you to name your scanned images by using a date when your documents are scanned, plus a sequential number.



The edit box lets you select a method used between a date and a sequential number.

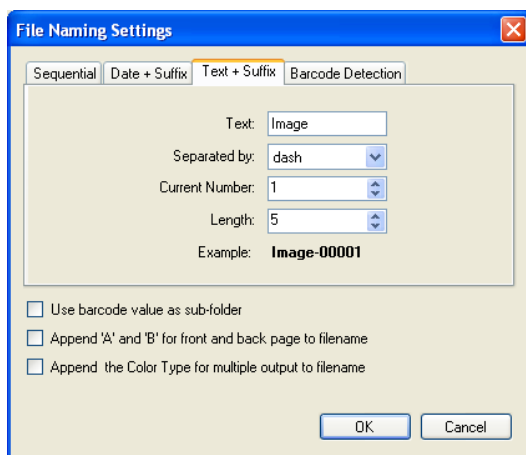
Separated by: This edit box lets you to choose a method used between a date and a sequential number. Possible methods include Dash, Period, Space, Underscore and Nothing.

Current Number: This edit box lets you to choose the sequential number you want to use for the image to be scanned next.

Length: This edit box lets you to choose the total length for the sequential number. The value ranges from 1 to 10.

Text+Suffix

This method allows you to name your scanned images by using a given name, plus a sequential number.



Text: This edit box lets you to enter a desired text string.

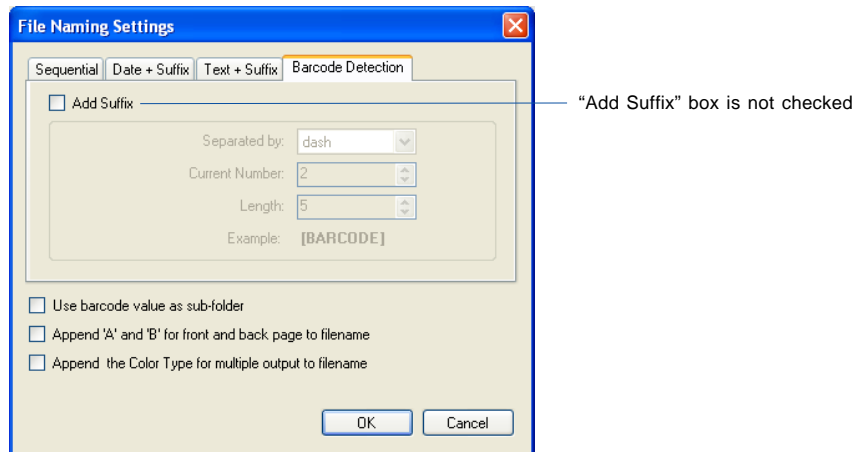
Separated by: This edit box lets you to choose a method used between a date and a sequential number. Possible methods include Dash, Period, Space, Underscore and Nothing.

Current Number: This edit box lets you to choose the sequential number you want to use for the image to be scanned next.

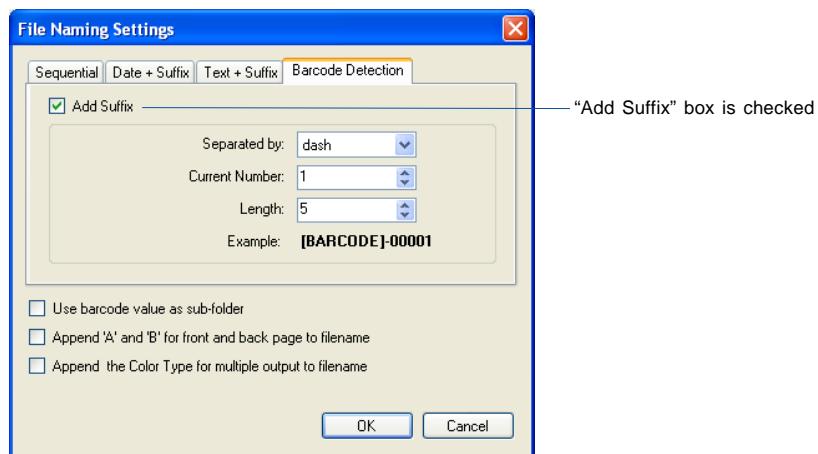
Length: This edit box lets you to choose the total length for the sequential number. The value ranges from 1 to 10.

Barcode Detection

If your scanned images contain a value of barcode numbers, you may select this method to save your scanned images by using an auto-detected barcode number. Also, you can add a sequential number after the barcode number.



When "Add Suffix" box is not checked, the system will automatically use the detected barcode number as the name for the scanned images. If the system detects the same value of barcode numbers, it will put a sequential number after the name of the barcode number, for example 8096186560(1).jpg, 8096186560(2).jpg and 8096186560(3).jpg.



When "Add Suffix" box is checked, you are allowed to enter a sequential number after the detected barcode number as a differentiation.

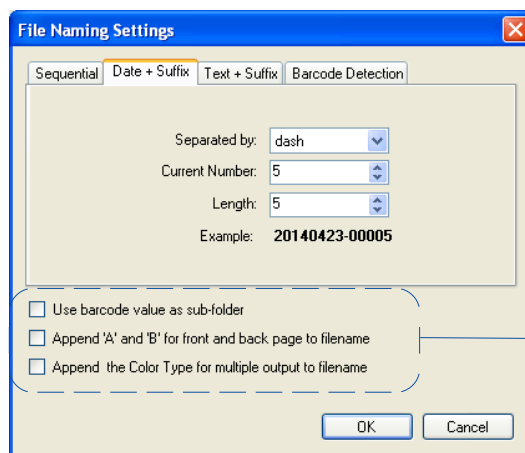
Separated by: This edit box lets you to choose a method used between a detected and a sequential number. Possible methods include Dash, Period, Space, Underscore and Nothing.

Current Number: This edit box lets you to choose the sequential number you want to use for the image to be scanned next.

Length: This edit box lets you to choose the total length for the sequential number. The value ranges from 1 to 10.

Subsidiary Options

At the lower section of each panel of the File Naming Settings window, you can see three subsidiary options for you to check to make naming for your scanned images more clearly. Check the option if needed.



Additional options for your to check when naming scanned and saved files

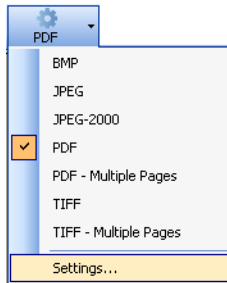
Use barcode value as sub-folder: When you use “Barcode Detection” as you file naming method, if this option box is checked, the barcode number detected by the system will be used as a file’s name and a folder’s name at the same time.

Append ‘A’ and ‘B’ for front and back page to file name: When the Scan Source is set as “Duplex”, if this option box is checked, the front page of scanned images will be named with an added “A” and the back page of scanned images will be named with an added “B”. For example, 0000000075A.jpg and 0000000075B.jpg.

Append the Color Type for multiple output to file name: When the Scan Source is set as “Duplex” and Color Mode is set as “Complex”, if this box is checked, the assigned color mode (ex. RGB) will be added to your scanned images. For example, 0076A_Color.jpg (front side), 0076A_Gray.jpg (front side), 0076A_BW.jpg (front side), 0076B_Color.jpg (back side), 0076B_Gray.jpg (back side) and 0076B_BW.jpg (back side).

File Format Settings

The File Format menu button allows you to select a type of file format for saving your scanned images. Images scanned with ScanWizard DI can be saved as BMP (.bmp), JPEG (.jpg), PDF (.pdf) and TIFF (.tif) files.



If JPEG, PDF or TIFF is selected, the Settings option will be enabled in the File Format drop-down menu. You can use it to activate the File Format Settings window and then go to adjust image quality and compression rate there for saving your scanned images.

JPEG File

When JPEG is selected as file format, select “Settings...” from the File Format drop-down menu. When the File Format Settings window appears on the screen, click “JPEG” tab at top to enter JPEG file setup panel.

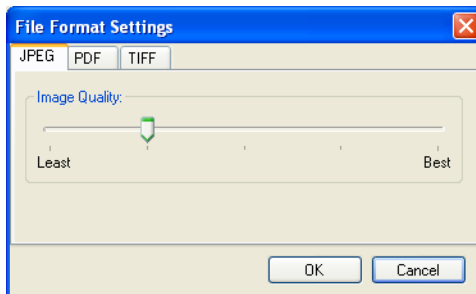
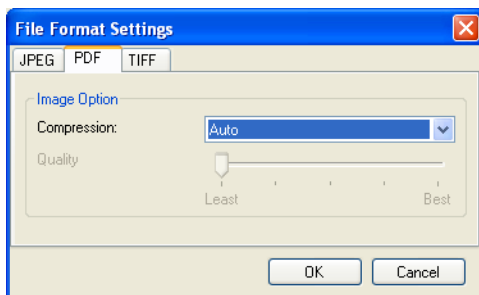


Image Quality: Drag slider to the left or right to define custom image quality setting.

PDF File

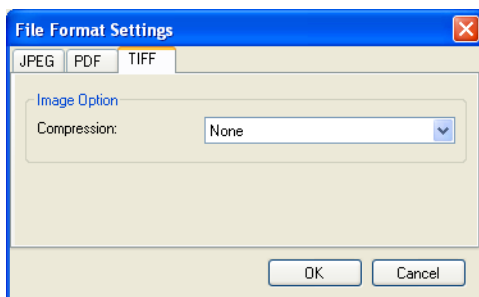
When PDF is selected as file format, select “Settings...” from the File Format drop-down menu. When the File Format Settings window appears on the screen, click “PDF” tab at top to enter PDF file setup panel.



Compression: The compression options include Auto, CCITT4 and JBIG2. If JBIG2 is selected, image quality compression will be available for adjustment.

TIFF File

When TIFF is selected as file format, select “Settings...” from the File Format drop-down menu. When the File Format Settings window appears on the screen, click “TIFF” tab at top to enter TIFF file setup panel.



Compression:

If the document is scanned in RGB and grayscale, the available compression options include None and LZW.

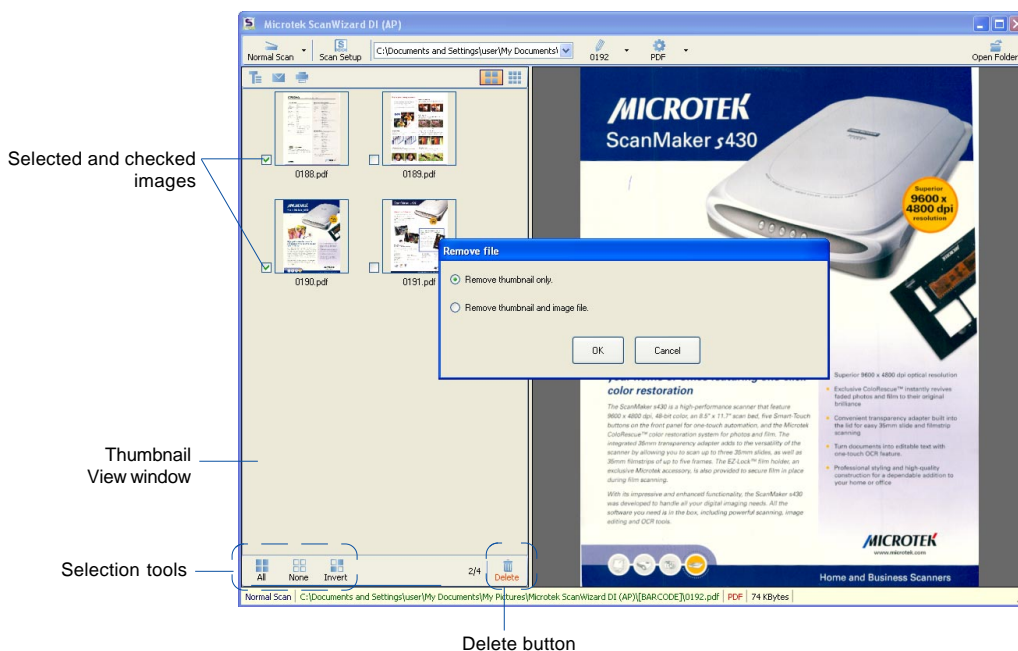
If the document is scanned in black-and-white, the available compression options include CCITT3, CCITT4 and PackBits.



The Delete Button

The Delete button allows you to delete the selected image files from the Thumbnail View window or from both the Thumbnail View window and the assigned folder simultaneously..

1. Select the image files you want to delete in the Thumbnail View window by checking the box next to the images or using the selection tools (All and Invert).



2. Click the Delete button at bottom of the Thumbnail View window.

A window appears on the screen. The system provides you with two options to delete the selected image files.

Remove thumbnail only: If this option is selected, the system will delete the selected image files from the Thumbnail View window. The saved image files are still stored in the assigned folder.

Remove thumbnail and image file: If this option is selected, the selected image files will be deleted from the Thumbnail View window and the assigned folder simultaneously.

The Function Buttons

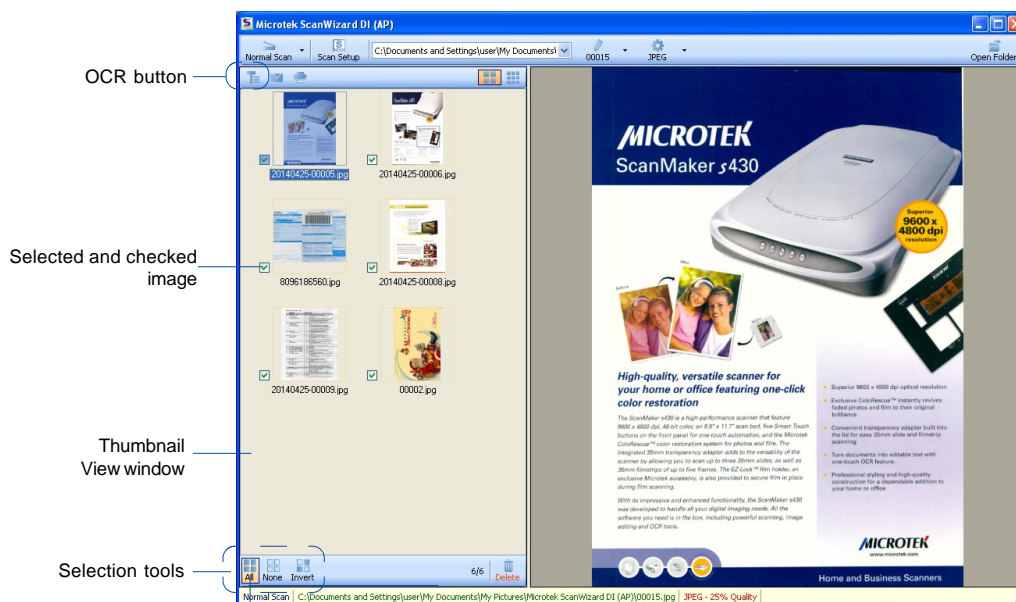
The function buttons (OCR, E-Mail, and Print) located at the Thumbnail Image window. They will be available only when the scanned images are selected and checked in the Thumbnail View window.



OCR

The OCR (Optical Character Recognition) function allows to convert the scanned images into text files that can be edited in any common word processing applications (e.g., Word, Excel, PowerPoint).

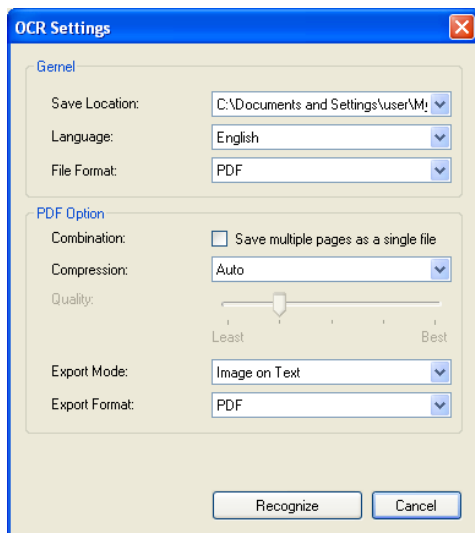
1. Check the box next to the images or use the selection tools (All and Invert) to select the image files you want to perform OCR in the Thumbnail View window.



If you like to select all images at one time, click the All button.

2. Click the OCR button in the Thumbnail View window to activate the OCR Settings window.

3. In the OCR Settings window, set up related requirements:



- **Save Location:** Specify a directory for saving the converted files.
- **Language:** Select a language in which the original text document is written. Supported options include most common used languages in the world.
- **File Format:** Select a file format for the converted files. Options include DOCX, PDF, PPTX, RTF, TXT, XLS, XLSX and XML.

When PDF is selected, the “PDF Option” section is enabled at bottom of the window.

Save multiple pages as a single file: If this option is checked, the system allows you to save the scanned image files to a single file when OCR is complete.

Compression: This menu box lets you select a file format which supports file compression feature. The available options include Auto, JPEG, JPEG 2000, LZW and ZIP. If JPEG or JPEG 2000 is selected, the Quality control will be enabled in the window. Drag the slider to left or right to define a quality setting for the file.

Export Mode: This menu box lets you select a layout mode when exporting a file containing text and images. The available options include Image Only, Image on Text, Text on Image and Text Only.

Export Format: This menu box lets you select a type of PDF format.

4. When done, click the Recognize button to perform OCR.

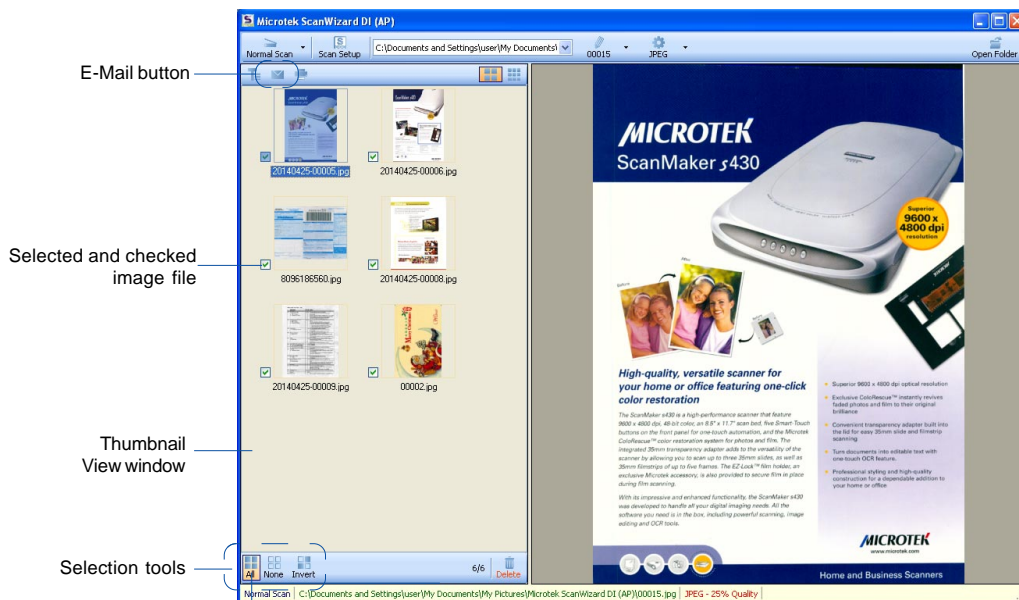
Once OCR is complete, the converted file is sent to your chosen folder.



E-Mail

The E-Mail function allows to attach the scanned and saved image files to the default E-mail application assigned by the system. This lets you share your scanning results with others fast and easily.

1. Check the box next to the images or use the selection tools (All and Invert) to select the image files you want to send out by E-mail in the Thumbnail View window.



If you like to select all images at one time, click the All button.

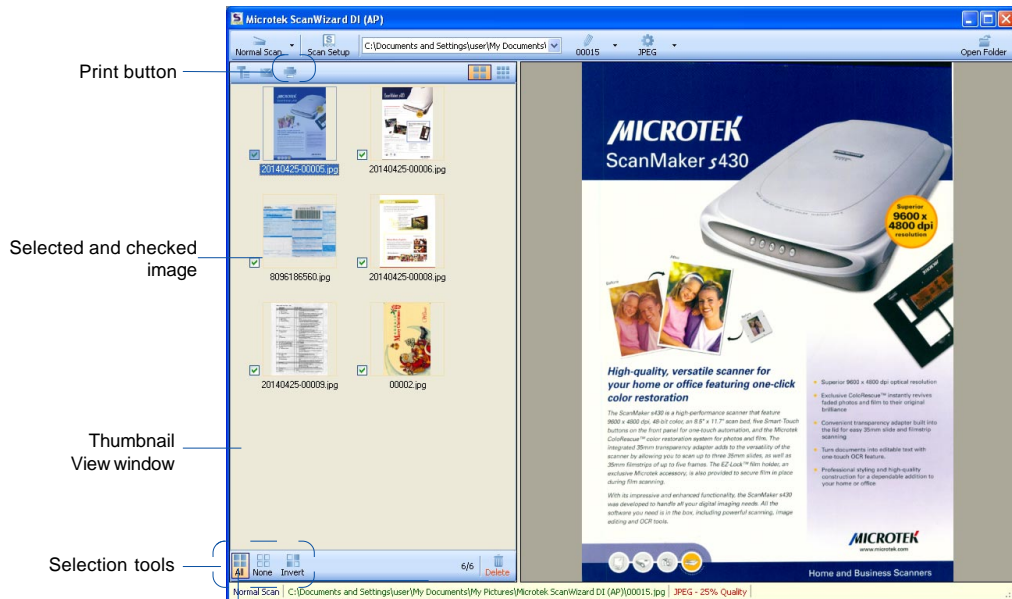
2. Click the E-Mail button in the Thumbnail View window to activate the default E-Mail application. Then, follow instructions of the E-Mail application you are using to send out the selected image files.



Print

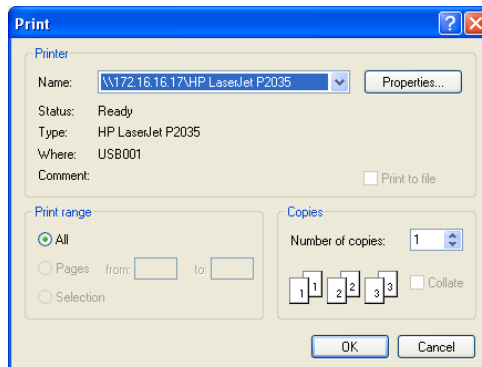
The Print function allows the scanner to work like a copier. Using together with your printer, documents can be printed out successively without interruptions. This feature transforms your scanner and printer into a convenient copy station.

1. Check the box next to the images or use the selection tools (All and Invert) to select the image files you want to make a copy in the Thumbnail View window.



If you like to select all images at one time, click the All button.

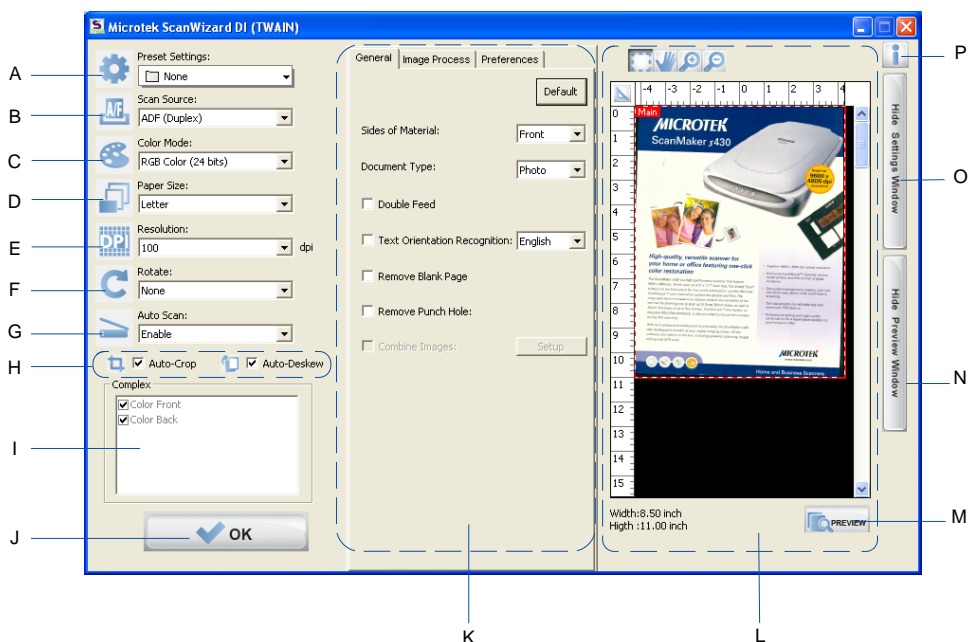
2. Click the Print button in the Thumbnail View window to activate the Print window.
3. Specify the number of copies to be made, then click OK.



The Scan Setup Interface (TWAIN Driver Control Panel)

The Scan Setup interface (TWAIN driver control panel) appears when the ScanWizard DI is launched from an application program (such as Adobe Photoshop) or brought up by pressing the Scan Setup button in the Main interface of ScanWizard DI.

The Scan Setup interface includes 1) scanner settings for controlling the scanner, 2) scanning parameters and image corrections tools for outputting your scanned images, 3) and a preview window for previewing the specified area or entire image.



- A. Preset Settings: Loads or retrieves a customized scan setting that you have previously defined for your scan job.
- B. Scan Source: Selects the image input device (e.g., Flatbed, ADF)
- C. Color Mode: Selects the color mode for images.
- D. Paper Size: Selects the dimension for preview images.
- E. Resolution: Selects the resolution for images.
- F. Rotate: Rotates the image in increments of 90 degrees.
- G. Auto Scan: Lets the scanner automatically scan the document. It works only when the scanner support “Auto Paper Detection” function.
- H. Auto-crop & Auto-deskew: Automatically crops the scan frame to fit the size of originals and corrects the distorted image for proper alignment.
- I. Complex: Displays the settings of color mode for each side of document separately.
- J. OK: Clicks to close the Scan Setup interface and return to the Main interface of ScanWizard DI.

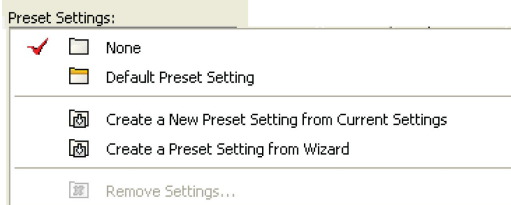
Note: If you launch ScanWizard DI (TWAIN) driver from an application (such as Adobe Photoshop), the OK button will be changed to the SCAN button on the interface.

- K. Settings window: Contains three panels (General, Image Process, and Preferences) . Click any of the tabs to customize the scan settings according to your specific requirements.
- L. Preview window: Displays a preliminary view of the entire image.
- M. Preview button: Clicks to perform a preliminary view of the entire image.
- N. Show/Hide Preview window: Clicks to switch between showing or hiding the Preview window
- O. Show/Hide Settings window: Clicks to switch between showing or hiding the Settings window
- P. Information button: Provides information about the scanner and software you are using.



Preset Settings

Allow you to save current image settings as a preset setting and use it later when necessary. Five options for choosing the preset settings are available: None, Default Preset Setting, Create a New Preset Setting from Current Settings, Create a Preset Setting from Wizard, and Remove Settings.



None

This option plays a remind function when the value of your Preset Setting option is either Default Preset Setting or your customized preset settings (e.g. Lady 2), if any changes are made in setting options, the value of the Preset Setting will be set back to “None” to show the existence from current preset setting status.

Default Preset Setting

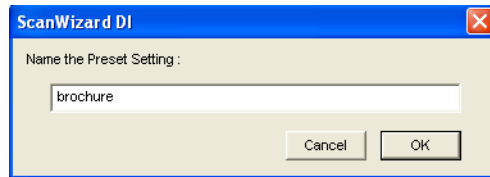
This option allows you to apply a default preset setting to your scan job. Once you choose this option, the current image settings you made for your scan job are cancelled, and settings will be restored back to the default preset settings.

Create a New Preset Setting from Current Settings

This option allows you to save current images settings as a customized preset setting with an user-defined name. The saved preset setting will be displayed and selectable from the Preset Setting options menu.

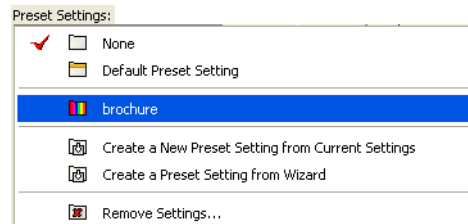
To customize a desired preset setting:

1. After you finish the image settings, choose “Create a New Preset Setting from Current Settings” from the Preset Setting options menu. A window appears.



2. Give a desired name (e.g., brochure) for the created preset setting, and then click OK to save.

The current images settings will be saved and added to the Preset Setting options menu as a customized preset setting. Next time when you wish to retrieve this preset setting, simply go to the Preset Setting options menu and choose it.



Create a Preset Setting from Wizard

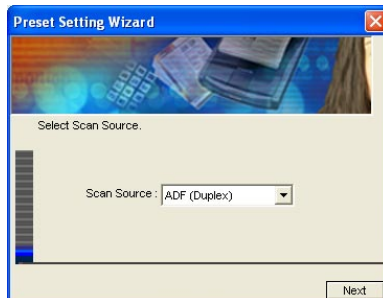
This option guides you to create your own preset setting in steps. It provides an easy and straightforward way, from start to end, to meet all necessary requirements for creating a preset setting. If it is your first time to use the Preset Setting function, it is recommended to use this wizard to create your own preset setting. When you get familiar with its setting procedure, you may create your own image settings and save them directly. The saved preset setting will also be displayed and selectable from the Preset Setting options menu.

To use the wizard to create a desired preset setting:

1. Choose “Create a Preset Setting from Wizard” from the Preset Settings options menu.

A window appears for you to specify your image input device.

2. Select either Flatbed, ADF (Front Side), ADF (Back Side) or ADF (Duplex) according to where you put your source target. Press the Next button when done.

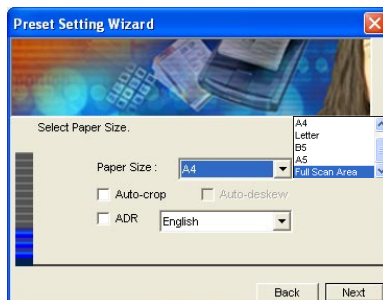


3. Then, an action-requirement window prompt out. Put your source target on where you chose in the previous step. Press the Next button when done.

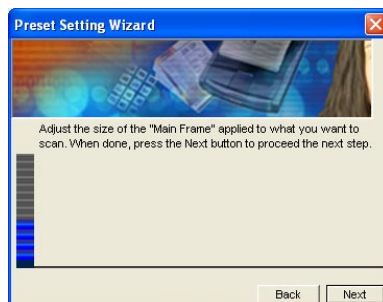
The scanner starts to perform a preliminary view of the entire image immediately. When finished, a preview image appears in the preview window. Also, a window for the next step will pop up.



4. Select a dimension in the *Paper Size* as your preview image size. Also, you can decide if you like the software to crop the image automatically or to rotate it into a readable direction according to the language you choose. Press the Next button when done.

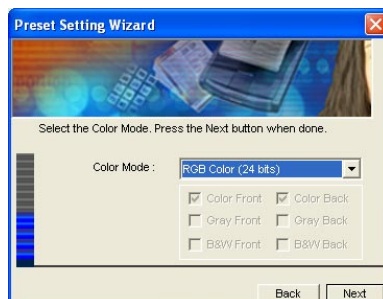


A prompted window for you to adjust the size of the main frame appears. Make adjustment for the main frame if necessary. Press the Next button when done.

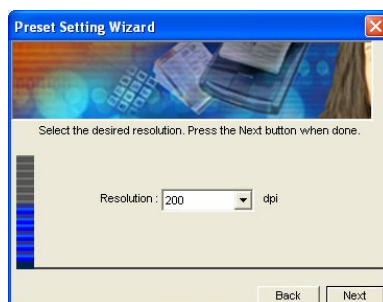


5. Select the appropriate image type (e.g., *RGB Color*) in the *Scan Type* as your image output type. Press the Next button when done.

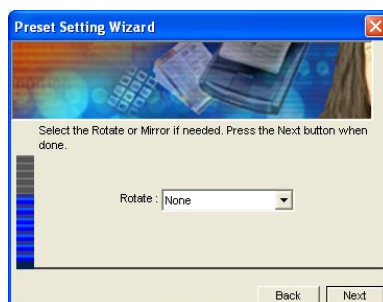
- Select *RGB Color (24 bits)* to scan the image in color.
- Select *Grayscale (8 bits)* to scan the image in grayscale.
- Select *Black & White (1 bit)* to scan the image in black-and-white.
- Select *Auto Color Detection* to let the scanner to determine the scanning color automatically.



6. Select a desired resolution in the *Resolution* for your image output resolution. Press the Next button when done.



7. If necessary, apply the *Rotate* or *Mirror* effect to your source target. Press the Next button when done.



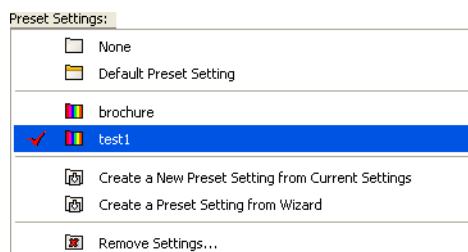
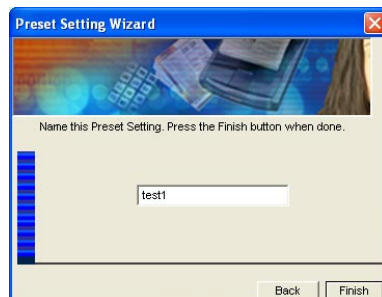
8. Select the image type (e.g., *Photo*) in the *Attribute* as your image type. Press the Next button when done.



9. Give a name (e.g., test1) for the preset setting being created. Press the Finish button when done.

The settings you just made will be saved and added to the Preset Setting options menu as a customized preset setting.

Next time when you wish to retrieve this image setting and apply it to your scan job, simply go to the Preset Setting options menu and choose it.



Remove Settings

This option allows you to remove unwanted preset settings from a list of the Preset Settings.

To remove unwanted preset settings:

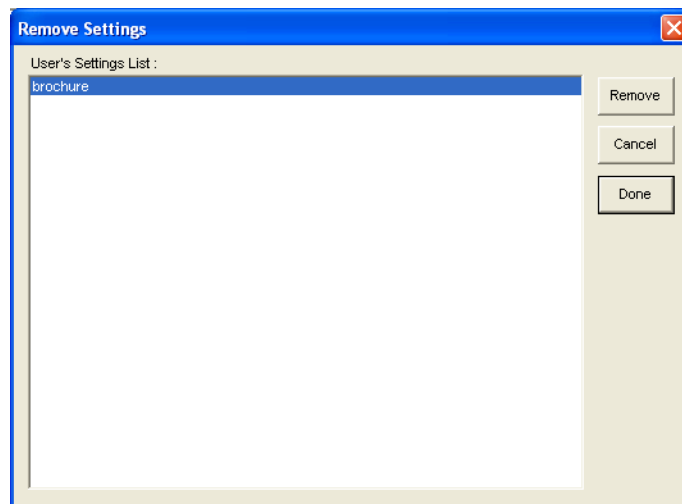
1. Choose “Remove Settings” from the Preset Setting options menu.

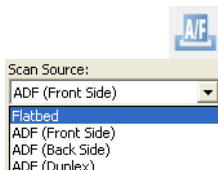
A window with a list of existing preset settings appears.

2. Highlight the setting you want to remove, and then press the Remove button.

The selected setting will be removed from the list and will not be displayed in the Preset Setting options menu.

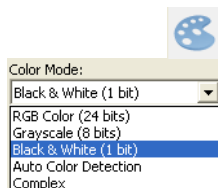
3. Repeat the step 2 until all unwanted preset settings have been removed, then press the Done button.





Scan Source

Allows you to select the image input device. Four options for choosing the image device are available (depending on the scanner model): Flatbed, ADF (Front Side), ADF (Back Side) and ADF (Duplex). If the ADF (Automatic Document Feeder) is not installed, “Flatbed” is the sole selection.



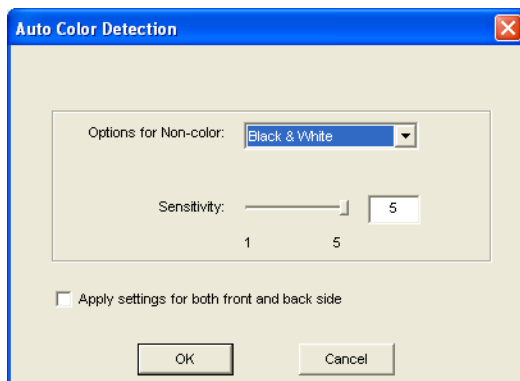
Color Mode

Allows you to select the image type for the scan when it is output. Select from RGB Color (24 bits), Grayscale (8 bits), Black & White (1 bit), Auto Color Detection and Complex. The RGB Color (24 bits) option is not available for some scanner models (e.g., ArtixScan DI 6020).

Auto Color Detection

This option allows you to save the scanned image in black-and-white or grayscale if it is determined by the system as a non-color image.

When this option is selected, there will be a “Setup” button appearing next to the option box. Click it to activate the Auto Color Detection window for non-colors.



Options for Non-color: This allows you to select the non-color image in either black-and-white or grayscale. For example, to save a non-color image in black-and-white, select Black & White.

Sensitivity: This lets you control the sensitivity which is used by the system to determine whether the scanned image is colored or not.

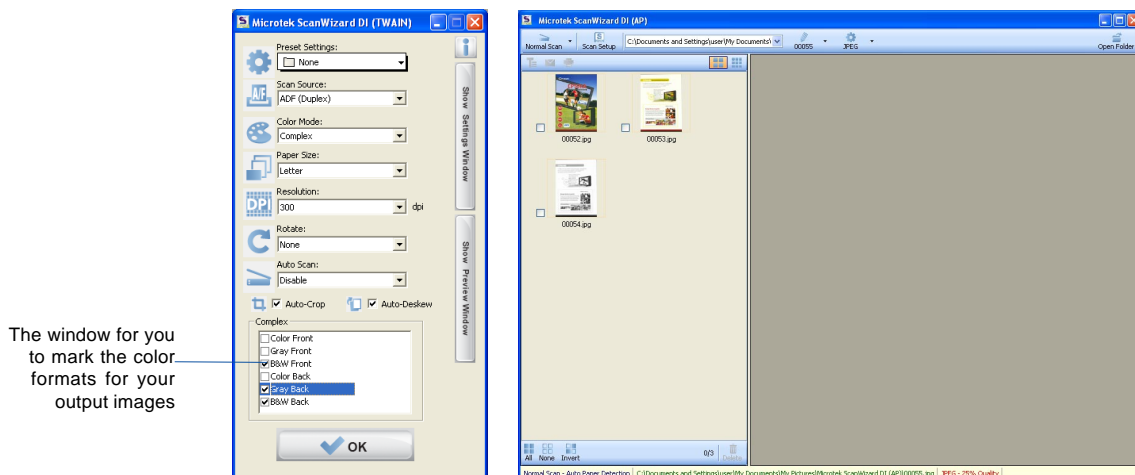
To change the sensitivity, move the slider to its new position in the Sensitivity slide bar. Dragging the slider to the left decreases sensitivity. It means that the system needs more colored contents on a scanned image as judging samples to determine whether the scanned image is colored or not. On the contrast, dragging the slider to the right increases sensitivity, which means the system needs less colored contents on a scanned image as judging samples to determine whether the scanned image is colored or not.

Apply settings for both front and back side: This allows you to apply the settings of Auto Color Detection to both sides of your scanned image.

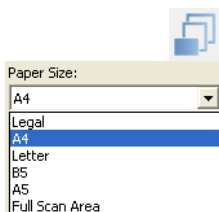
Complex

When you want to output your scanned images in separated colored and non-colored files for one time. For example, you can output a front side of a duplex file into color, grayscale and black-and-white formats for one time.

When the Complex option is selected, the “Complex” window at the bottom of the Scan Setup interface will be activated. Based on the Scan Source selected, you can set up different color formats for output images. For example, if your Scan Source is selected as “Duplex”, you will have three types of color formats (Color, Gray and B&W) for each side of your scanned documents (six options). Check the color formats you like to apply to your output images.

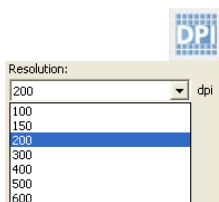


When done, click the OK button to close the Scan Setup interface and to return to the Main interface of ScanWizard DI. Then, select and press the Normal Scan button to carry out the final scan. You will see the selected color formats for the output images appearing in the Thumbnail View window.



Paper Size

Allows you to select the dimension of your preview image size. The maximum dimension of the preview size depends on the scanning area supported by the scanner. Possible dimensions are: A3, B4, Legal, A4, Letter, B5, A5, ID/Business, Passport, ID card, and Full Scan Area. The availabilities of options in the menu depend on the scanner you are using.



Resolution

Allows you to select or enter a desired resolution for outputting the image to a device. Preset resolution options are 100, 150, 200, 300, 400, 500, 600, and the scanner's optical resolution. The unit of measurement for resolution is in dpi (dots per inch).

Resolution is the sampling of image pixel per measurement unit or the amount of pixel information stored in an image. The image resolution and dimensions determine the file size of the image, which is measured in kilobytes (KB).

The resolution of an image is important in determining the quality of the output image. Resolution is also directly related to file size; and the higher the resolution, the larger the resulting file size will be.

When dealing with resolution, remember to distinguish between optical resolution and interpolated resolution.

Optical resolution is the “real” resolution as measured by the scanner’s optics.

Interpolated resolution is software-enhanced resolution and can be useful for enlarging very small images or for printing line art to obtain superior results.



96 dpi



600 dpi



1200 dpi



Rotate:

None

None

CW 90 degrees

180 degrees

CCW 90 degrees

Rotate

Allows you to rotate the image at increments of 90 degrees. Rotate options include: None, CW 90 degrees, 180 degrees, and CCW 90 degrees .

The rotation effect is seen only after you click the Scan button and scan the image. The rotation effect is not shown in the preview window.



Before (Rotate)



After (Rotate)



Auto Scan:

Enable

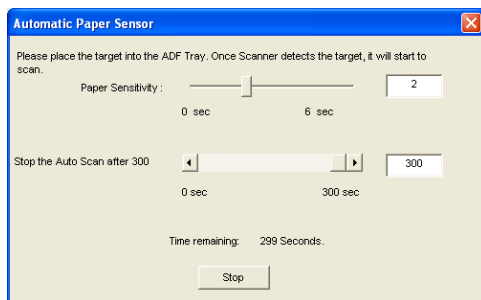
Disable

Enable

Auto Scan

Allows you to turn on or turn off the auto scan function that is supported by some scanners. If “Enable” is selected, the Auto Paper Detection function will be checked in the Scan mode drop-down menu in the Main interface of ScanWizard DI.

When you press the Normal Scan button in the Main interface, a window appears on the screen to remind you to put the document to be scanned into the document feed tray or on the flat bed. Once the scanner detects the document, the scanner will start scanning automatically.



By dragging the slider on the Paper Sensitivity slide bar, you can specify the time interval (among 0 and 6 seconds) to control the auto scan according to your preferences. Also, you can specify the time interval (among 0 and 300 seconds) to stop the auto scan there.

To stop the auto scan immediately, click the Stop button at the bottom of the window.



Auto-crop & Auto-deskew

If Auto-crop box is checked, the scanner automatically detects the size of the selected area, crops the full scan frame to fit selected area, and removes unwanted areas after the scan.

If Auto-deskew box is checked, the scanner automatically rotates and corrects the distorted image for proper alignment after the scan. Please take note that the Auto-deskew box cannot be activated unless the Auto-crop box is checked first.



Before (Auto-crop)



After (Auto-crop)

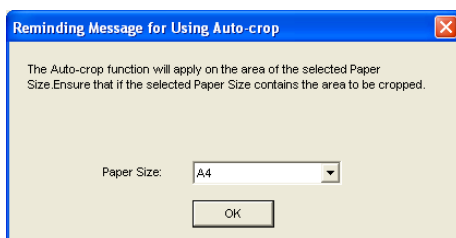


Before (Deskew)



After (Deskew)

When Auto-crop is checked, a pop-up window appears to remind you that what is the correct paper size you want to crop. Select a paper size from the options menu and then press the OK button.



Also, before applying this function to your scan, please pay extra attention to the followings in order to perform the right effect you want.

1. Make sure that your source target is in a good condition. It should not be damaged, ripped, creased, folded or perforated. Otherwise, your scanner may not perform the Auto-crop & Auto-deskew function properly.
2. For scanners with dark backgrounds, make sure that there are not dark areas in any of the edges of your source target. Otherwise, your scanner may not perform the Auto-crop & Auto-deskew function properly.

3. Make sure that the glass surface or feeding rollers is clear and clean. Otherwise, your scanner may not perform the Auto-crop & Auto-deskew function properly.



Good-condition paper



Damaged paper



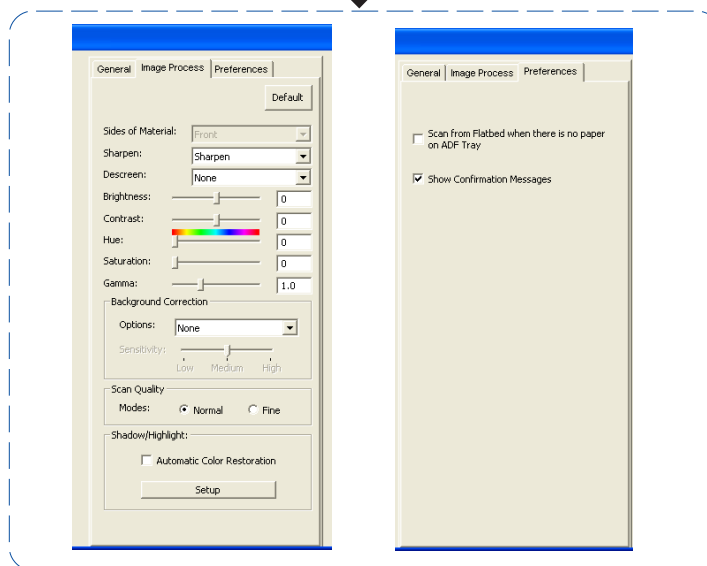
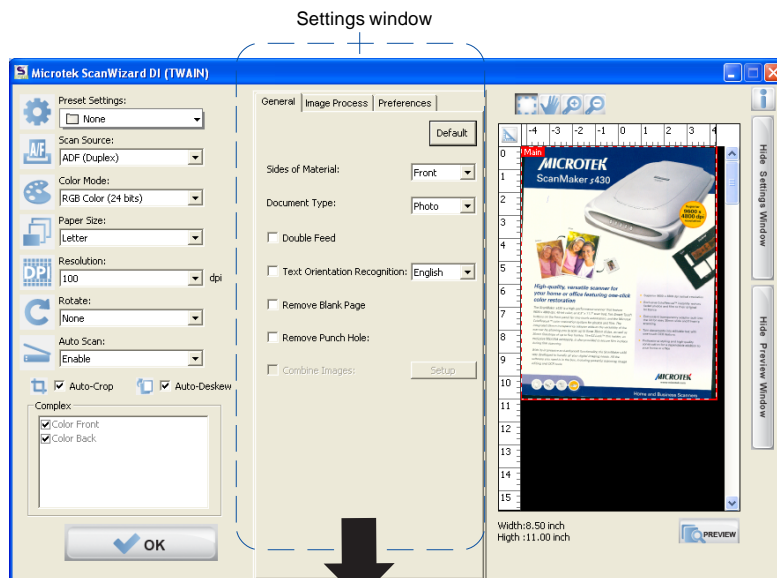
Damaged paper

4. The maximum scanning size for the Auto-crop function is A3 size. If the scanning size is larger than A3, the software will pop up a warning message to remind you that the scanning size should be reduced in order that the Auto-crop function can be performed properly.
5. The minimum scanning size for the Auto-crop & Auto-deskew function is 2 x 2 inches. The minimum paper size varies depending on the scanner model used.
6. The minimum distorted angle for the Auto-deskew function is one degree. If the distorted angle is less than one degree, the Auto-deskew function will not be activated by the scanner.

The Settings Window

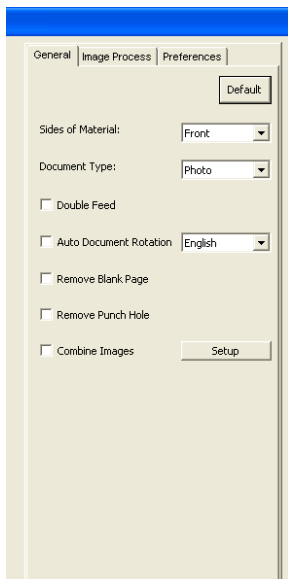
The Settings window lets you adjust the image attributes in ScanWizard DI. Work with the image enhancement and correction tools to see how they optimize your results. You may hide or show this window by clicking on the *Hide / Show* toggle tabs in the Scan Setup interface.

There are three settings panels for you to choose: General, Image Process and Preferences. Click any of the tabs to view and customize the scan settings according to your specific requirements.



General Panel

The General panel is the default Settings panel when you activate the Scan Setup window on the screen. The General panel contains some general functions for outputting your scanned images.



Default Button

Allows you to retrieve the default settings for the General panel.

Sides of Material

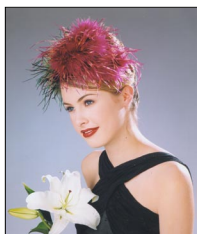
Allows you to specify the image settings for the front or back side of document separately when the Scan Source is set as “ADF (Duplex)”.

Document Type

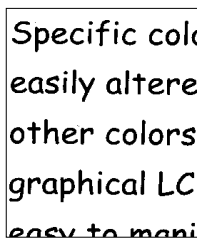
Allows you to select the type of contents on your documents. Options include Photo and Text.

Photo: Photo images are image originals that use three colors (Red, Green, and Blue), or are grayscale images.

Text: Text image originals can be RGB Color, Grayscale, or Black & White images. If your text image original is Black & White, you may select Black & White in the Color Mode options menu. If the text image original is Color or Grayscale, specify the same settings (i.e., Color or Grayscale) in the Color Mode options menu.



Photo



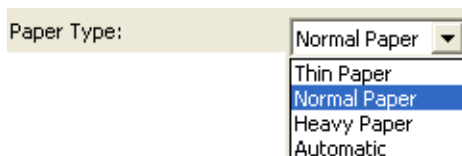
Text

Double Feed

Appears only when the scanner you purchased is equipped with an ultrasonic double-feed detector and supports this function. This function detects when two or more pages have been fed into the scanner at the same time, which helps prevent lost images when scanning larger batches of documents.

Based on the scanner models you purchased, you will see different options for the Double Feed function. For example, if using the ArtixScan DI 3130c, you can only enable or disable the Double Feed function only. However, if using the ArtixScan DI 6240S, you can enable different levels of the double-feed detecting function based on the thickness of papers used.

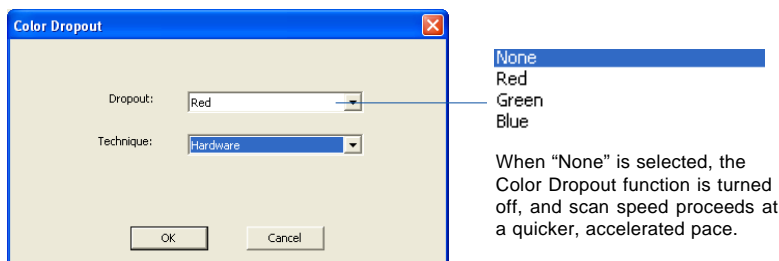
If the scanner you purchased supports different levels of the double-feed detecting function, you will be able to specify the thickness of paper in use, preventing the happening of paper jams while documents are fed through the ADF.



Color Dropout

Allows you to remove an unwanted color cast (i.e., green, red, or blue) from your originals. The Color Dropout option appears only when the Color Mode for image output is set as “Grayscale” or “Black & White” and your scanner supports this feature.

When you click the Setup button next to the option, “Color Dropout” window will appear on the screen.

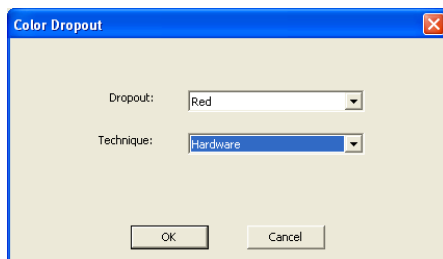


Dropout: This allows you to select a desired color you want to remove from the original documents before you perform a scan. For example, to eliminate a greenish color cast, select *Green* as your color filter. The available color options are None, Red, Green, and Blue.

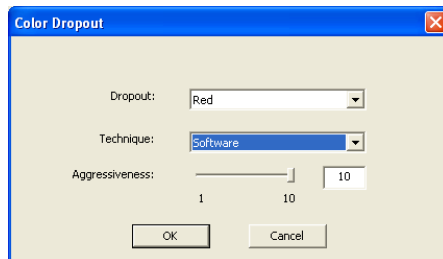
Technique: This allows you to remove the unwanted color using either a hardware or software method. This option is activated only when the Dropout setting is Red, Green, or Blue; otherwise it will not appear.

Hardware: If this option is selected, the selected color will be removed from the original by the setting of the scanner. Your scanner would take controls of the effectiveness for the color to be dropped out.

Software: If this option is selected, the selected color will be removed from the original by the control of ScanWizard DI. You are allowed to enter a range of 1 to 10 to take controls of the effectiveness for the color to be dropped out.



Drop out the selected color by the control of the hardware (scanner itself)



Drop out the selected color by the control of the software

Text Orientation Recognition

If Text Orientation Recognition box is checked, the scanner automatically rotates every saved files in a readable direction based on a specific OCR language selected.

If your scanning size is less than A3, when Text Orientation Recognition box is checked, Auto-crop & Auto-deskew box will be automatically checked by the software in order to confirm the precise performance of the Text Orientation Recognition function.

One the other hand, if your scanning size is larger than A3, when Text Orientation Recognition is checked, Auto-crop & Auto-deskew box will not be checked by the software due to the size limitation involved with the Auto-crop function.



Before

After

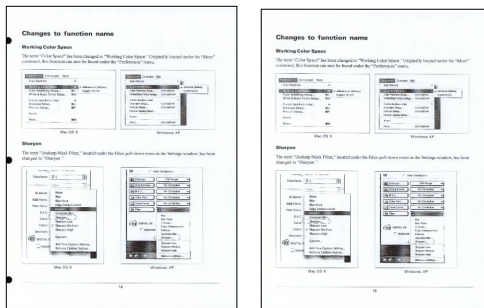
Remove Blank Page

If Remove Blank Page box is checked, the software automatically detects and removes blank pages when scanning a stack of documents. After done, the removed blank pages will not appear in the Thumbnail View window.

Remove Punch Hole

If Remove Punch Hole box is checked, the software automatically detects the location of punch holes on the scanned documents and fills them in white. After done, the images with this effect can be viewed in the Thumbnail View window.

This function appears only when the scanner supports this feature.



Before

After

Combine Images

This option allows you to merge two separate images as one united image.

Click the Setup button next to the option to open a window in which you can choose to put the first scanned image at the left, right, top or the bottom side of the combined image.

If the Auto Scan option is checked, this option will be disabled and cannot be selected.

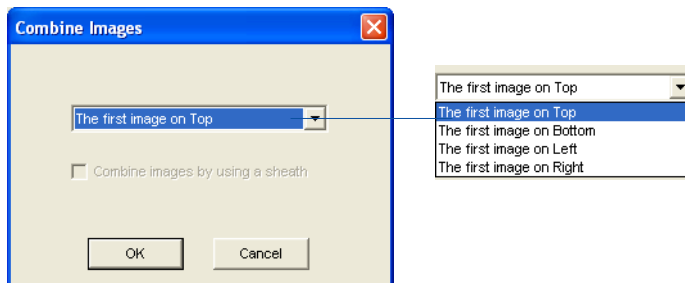
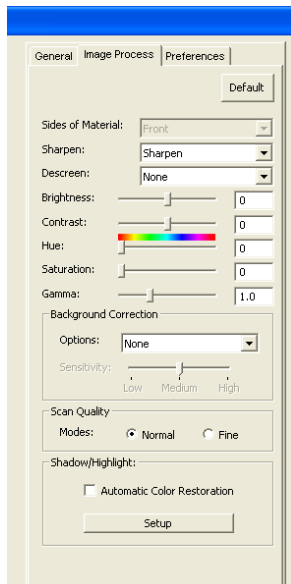


Image Process Panel

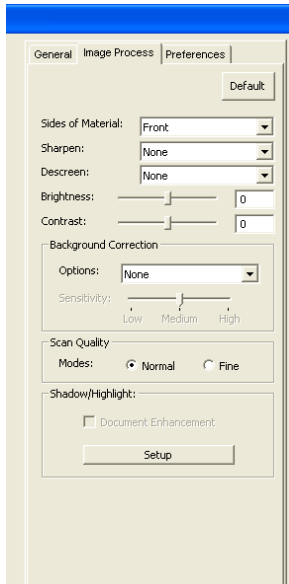
The Image Process panel includes some image correction tools which allow you to adjust or enhance settings for outputting your scanned images. The availability of image correction tools depends on the Color Mode and Document Type chosen in the Scan Setup interface.

ScanWizard DI supports the image correction tools :

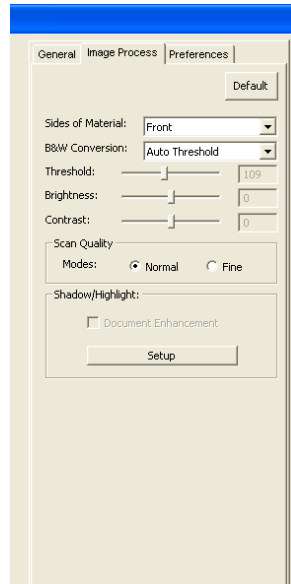
- B&W Conversion
- Threshold
- Sharpen
- Descreen
- Brightness/Contrast
- Hue/Saturation
- Gamma
- Background Correction
- Scan Quality
- Shadow/Highlight
- Automatic Color Restoration
- Document Enhancement



Color Mode: RGB Color
Document Type: Photo

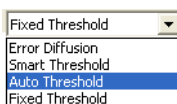


Color Mode: Grayscale
Document Type: Text



Color Mode: Black & White
Document Type: Text

Color Mode Document Type	Color Mode		
	RGB Color	Grayscale	Black & White
Photo	Sharpen, Descreen Brightness/Contrast Hue/Saturation Gamma Background Correction Scan Quality Shadow/Highlight Auto Color Restoration	Sharpen, Descreen Brightness/Contrast Gamma Background Correction Scan Quality Shadow/Highlight Auto Color Restoration	B&W Conversion Threshold Brightness/Contrast Gamma Scan Quality Shadow/Highlight Auto Color Restoration
Text	Sharpen, Descreen Brightness/Contrast Hue/Saturation Background Correction Scan Quality Shadow/Highlight Document Enhancement	Sharpen, Descreen Brightness/Contrast Background Correction Scan Quality Shadow/Highlight Document Enhancement	B&W Conversion Threshold Brightness/Contrast Scan Quality Shadow/Highlight Document Enhancement

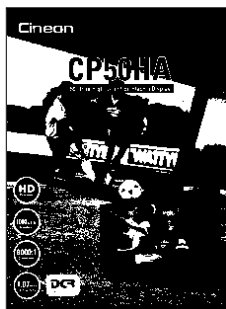


B&W Conversion

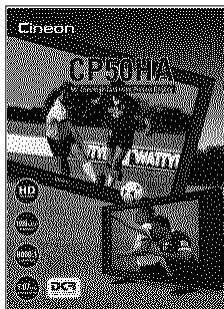
The B&W Conversion options menu is active only when the Color Mode is set as “Black & White”. The default B&W Conversion option is preset as Auto Threshold. Other three options include Error Diffusion, Smart Threshold and Fixed Threshold.

Auto Threshold: If this option is selected, the system picks up the best value of the threshold for the scanned image automatically.

Error Diffusion: It is a type of halftones in which the quantization residual is distributed to neighboring pixels that have not yet been processed. Its main use is to convert a multilevel image into a binary image, creating different shades of gray by verifying the pattern of black and white pixels in percentage in an image.

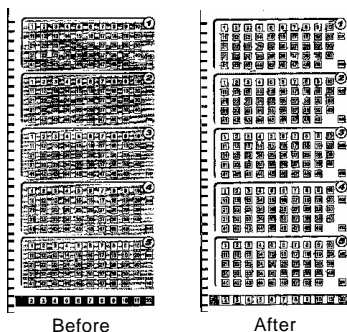


Normal Black & White
image



Applied with Error
Diffusion effect

Smart Threshold: If this option is selected, the software dynamically evaluates each document to determine the optimal settings to generate the highest image quality. This effect can be used best when scanning faint text, shaded backgrounds or color background documents.



Fixed Threshold: You can adjust the Threshold setting only when the B&W Conversion is set as “Fixed Threshold”.



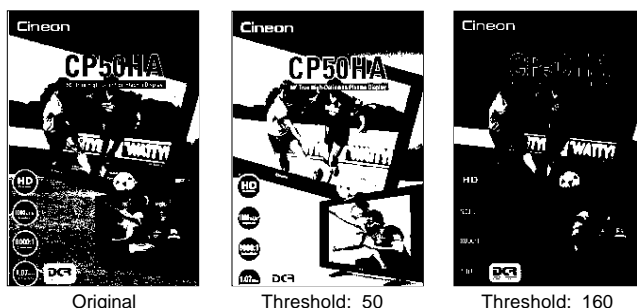
Threshold

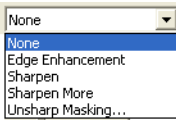
The Threshold control is active only when the B&W Conversion is set as “Fixed Threshold”.

Threshold is the dividing point between black and white; the range is 0 to 255, and the default is 147. Thus, gray levels below the Threshold are converted to black, while gray levels equal to or above the Threshold are converted to white, resulting in a high-contrast, black-and-white representation of the image.

To darken the original, drag the slider to the right or enter a value in the edit box. This increases the Threshold value so that more pixels are turned to black, resulting in a darker image.

To lighten the original, drag the slider to the left or enter a value in the edit box. This lowers the Threshold value so that more pixels are turned to white, resulting in a lighter image.





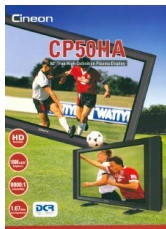
Sharpen

The Sharpen filters let you apply or create special sharpening effects to your selected frame images. The Sharpen filters include None, Sharpen, Sharpen More, Edge Enhancement, and Unsharp Masking.

In using any of the sharpen filters, keep in mind that the image you obtain in the Preview window may differ from the way the image appears when you finally scan it in. The appearance of the image in the Preview window and how it is affected by a sharpen filter will depend on the resolution of the image. The higher the resolution, the less obvious the effect of certain filters.

Sharpen and Sharpen More: The Sharpen filters increase the contrast of adjacent pixels, making images appear sharper and more focused.

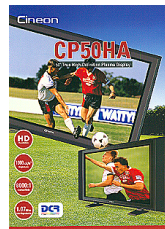
Both Sharpen and Sharpen More filters improve clarity, with the Sharpen More filter having a stronger sharpening effect than the Sharpen filter.



Original

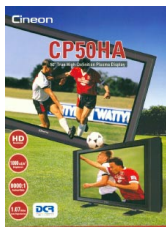


Sharpen



Sharpen More

Edge Enhancement: The Edge Enhancement filter gives greater contrast to edges. The filter can do this because edges are areas in an image where gray or color levels change abruptly. It is best to use this tool for improving geometrical contoured shapes.



Original



Edge Enhancement

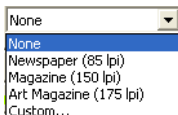
Unsharp Masking: The Unsharp Masking filter is used to adjust the contrast of edge detail, creating the illusion of more image sharpness. This filter can be useful for refocusing an image that has become blurry from interpolation or scanning. In general, Unsharp Masking is needed to render sharp color reproductions, especially when you wish to make a large color reproduction from a small original.



To adjust the contrast of edges, follow the steps below:

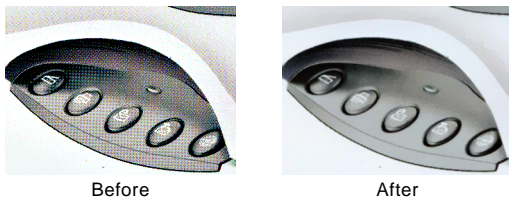
1. Choose Unsharp Masking to open its dialog box from the Sharpen options menu.
2. Enter a value in the Strength box to specify the degree of the filter's effect. The higher the value, the stronger the effect of the filter.
3. Select a mask size in the Mask Size box. This parameter determines the depth of pixels that will be affected at the edge. Available selections are 3x3, 5x5, 7x7, 9x9, 11x11, and 13x13. For small, low-resolution image files, 3x3 is sufficient. For high-resolution, or large-scale image files, use 7x7.
4. Enter a value in the Threshold box. This option allows you to specify a tolerance range to prevent overall sharpening that might generate noise or cause other unexpected results. The Threshold defines the required contrast between adjacent pixels in an image before sharpening is applied to an edge. A lower value produces a clearer effect.
5. Click OK to apply the settings.





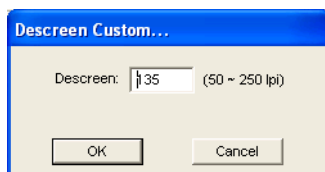
Descreen

The Descreen feature lets you remove moiré patterns from printed materials. Moirés occur when you scan a screened original (mostly reflective or previously printed material, such as pictures from a newspaper or magazine). These patterns appear to the naked eye like a series or grid of dots or as shown in the example below.



To set the screen for your needs, follow the steps below:

1. Click the Descreen options menu.
2. When the Descreen options menu comes up, select the screen for your needs, or choose Custom to set your own Descreen options.



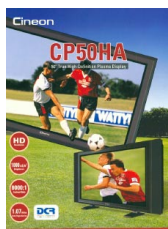
3. When the Descreen dialog box comes up, enter a value that best corresponds to the dot quality of the original in which the moiré is to be removed. You may use a screen finder to measure the print screen lpi. Please contact your local print shop for more information on how to obtain a screen finder.
 - Set a value from 50 to 85 if the original image has a coarse dot pattern, as in images taken from a newspaper.
 - Set a value from 100 to 133 if the original image has a fine dot pattern, as in images taken from a magazine.
 - Set a value from 200 to 250 if the original image has a very fine dot pattern with a near-photographic quality, as in images taken from a high-quality art magazine.



Brightness/Contrast

Brightness/Contrast lets you control the brightness and contrast levels of the selected frame images.

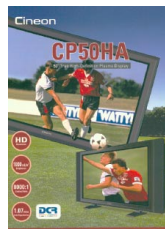
Increasing the brightness makes all tones in the image lighter. Contrast, on the other hand, is the range between the darkest and lightest shades in the image, and increasing the contrast makes for greater separation between the darkest and lightest areas of the image. Levels of brightness or contrast are from -100% to 100%, where 0 means no brightness/contrast is applied.



Original



Brightness: + 50



Contrast: -50



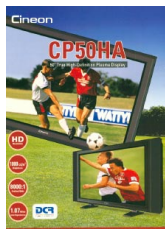
Hue/Saturation

Hue is the aspect of color that distinguishes one color from another (red from green from blue). In the RGB color mode, hue can be distinguished by its position in the color bar. Saturation, on the other hand, is the intensity of a hue (deep red vs. a lighter red).

Hue/Saturation lets you adjust the hue and saturation of a color. To change the hue of an image, move the slider to its new color position in the Hue slide bar. To change the saturation, drag on the Saturation slide bar. Dragging the slider to the left decreases saturation; dragging it to the right increases saturation. Beware of increasing saturation too much, as it creates artificial-looking, overly bright colors.



Original



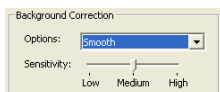
Hue: 49,
Saturation: 12



Hue: 48,
Saturation: 100

Gamma

The Gamma tool lets you adjust the intensity of the midtones of an image, making them consistent between the preview image and the final scanned image. To change the Gamma of an image, drag on the Gamma slide bar. Dragging the slider to the left decreases intensity; dragging it to the right increases intensity. Acceptable ranges are from 0.1 to 3.0. A value of 1.0 means that no gamma value is applied; default is 1.0.



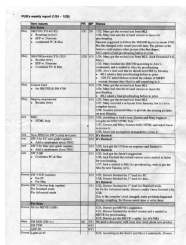
Background Correction

The Background Correction tool lets the scanner automatically bring out and improve readability of text and removes an unwanted background color (i.e., green, red, or blue) in/from a document that includes multi image elements. The Background Correction tool options include None, Smooth and Remove.

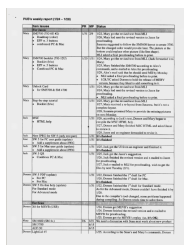
When the Background Correction tool is set as “Smooth” or “Remove”, you are allowed to control the effectiveness of tool by dragging the slider on the Sensitivity slide bar.

Before you apply the Background Correction function to your scan, please pay extra attention to the followings in order to perform the right effect you want.

1. You can only select one of Background Correction or Document Enhancement function to improve the quality of scanned images. When either of the functions is selected, the other one will be grayed out and become disabled.
2. When the Background Correction tool is set as “Smooth” or “Remove”, the effect applies to the scanned images immediately.
3. This function tool only applies to document type files, such as bank statements, shipping documents, tax documents and so on. It may not work efficiently on marketing materials, such as flyers or brochures, which involves more complicated color cast.



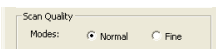
Original (None)



Applied with Smooth tool

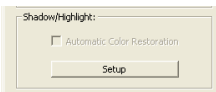


Applied with Remove tool



Scan Quality

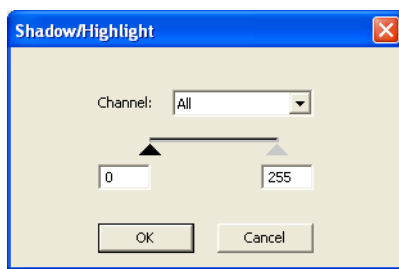
This feature provides you with two levels of scanning quality: Normal and Fine. The higher the image quality, the longer the scanning time and the greater the disk space required.



Shadow/Highlight

If you check the “Automatic Color Restoration” or “Document Enhancement” option, the Shadow/Highlight value is automatically given according to your preview image. Therefore, the Setup button will be grayed out and unavailable.

To manually adjust Shadow/Highlight, uncheck the “Automatic Color Restoration” or “Document Enhancement” option.



Shadow: Drag the black (left) triangle, or enter the value in the edit box to control the shadows. Moving this triangle to the right will emphasize shadows and bring out more details. Acceptable ranges are from 0 to 252. The default is 0.

Highlight: Drag the white (right) triangle, or enter the value in the edit box to control the highlights. Moving this triangle to the left will emphasize highlights and bring out more details. Acceptable ranges are from 3 to 255. The default is 255.

Automatic Color Restoration

The Automatic Color Restoration feature brings faded colors back to life and to their near-original colors. This feature is available only when the Scan Source is set as “Flatbed” and the Document Type is set as “Photo”.



Before



After

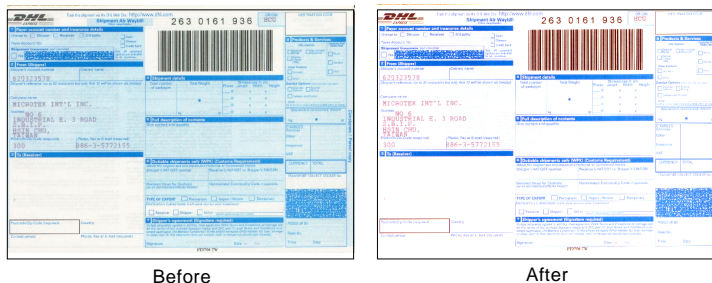
To use Automatic Color Restoration, follow the steps below:

1. In the Preview window, click the *Preview* button to perform a preliminary view of the entire image.
2. In the Preview window, click the *Select Frame* tool button, and marquee the faded image area to be restored.
3. Check the “Automatic Color Restoration” option.
4. Click the *OK* button to close the Scan Setup interface and to go back to the Main interface of ScanWizard DI.
5. Click the *Normal Scan* button to perform scanning.

Automatic Color Restoration is applied, and faded colors in the images are restored.

Document Enhancement

The Document Enhancement feature enables you to bring out and improve readability of text in a document that includes other elements such as pictures or graphs. This feature is available only when the Scan Source is set as “Flatbed” and the Document Type is set as “Text”.



Before

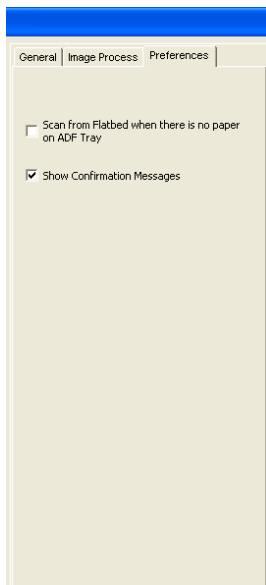
After

To use Document Enhancement, follow the steps below:

1. In the Preview window, click the *Preview* button to perform a preliminary view of the entire image.
2. In the Preview window, click the *Select Frame* tool button, and marquee the text area to be focused.
3. Check the “Document Enhancement” option.
4. Click the *OK* button to close the Scan Setup interface and to go back to the Main interface of ScanWizard DI.
5. Click the *Normal Scan* button to perform scanning.

Document Enhancement is applied, enhancing text clarity and visibility.

Preferences Panel



Scan from Flatbed where there is no paper on ADF Tray

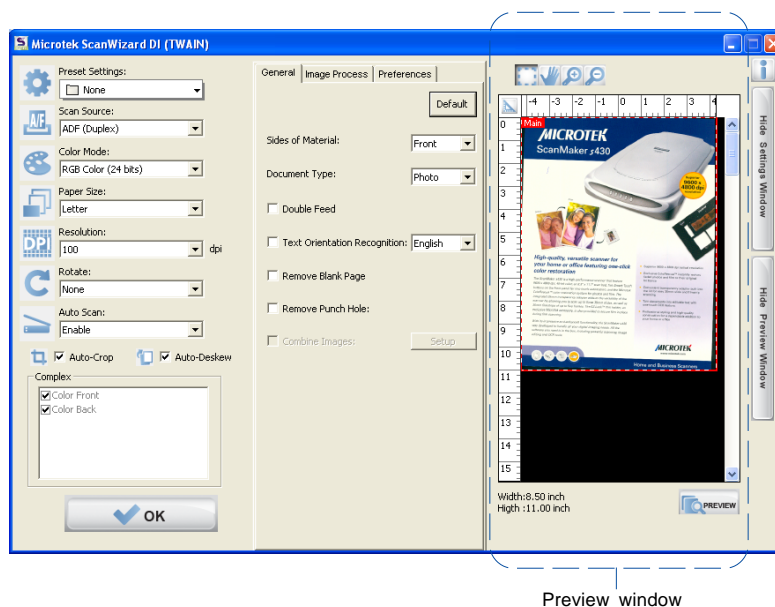
This option is available only when the scanner you are using is a flatbed scanner with a ADF. When this option is checked, the system will detect whether there are scanned targets on a ADF tray automatically. If not, the system will select “Flatbed” as Scan Source and then perform the rest of scanning jobs.

Show Confirmation Messages

This option is checked by default. When this option is checked, the system will display a confirmation message on the screen when you quit the ScanWizard DI.

The Preview Window

The Preview window is located at the right side of the Scan Setup interface where the preview image is displayed. You may hide or show this window by clicking on the *Hide / Show* toggle tabs in the Scan Setup interface.



Preview window

Preview Button

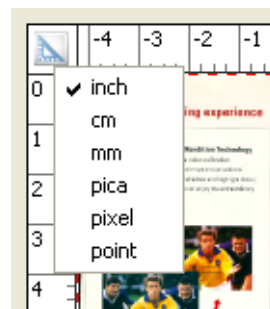
The Preview button offers a preliminary view of entire image on the scan bed. You are not allowed to change the area size to be previewed in the Preview window.

Rulers / Unit of Measurement

The rulers on both sides of the Preview area assist you in measurement or in checking the alignment of your image.

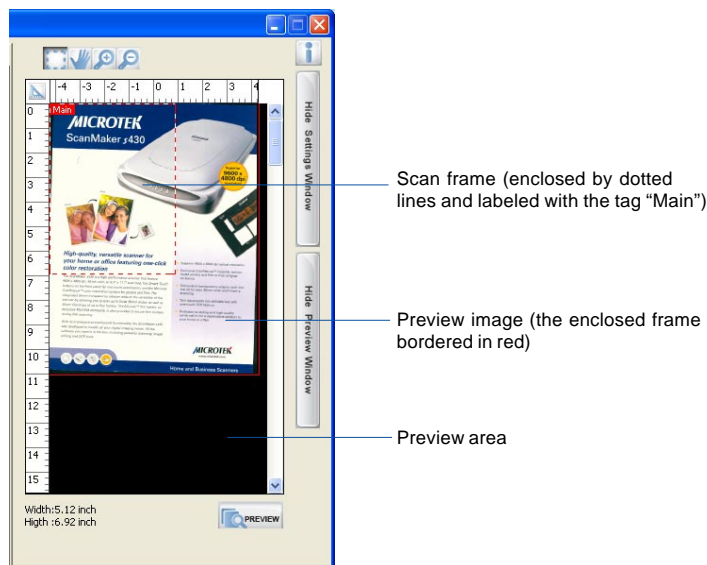
The unit of measurement in the ruler can be selected by clicking on the ruler unit button at top-left corner of the rulers in the Preview area.

Depending on your selection, the rulers can mark off measurement in these units: inch, centimeter, millimeter, pica, point, and pixel.



Preview Area

The Preview area is where the preview image appears after you click the Preview button. By the default, the maximum size of the Preview area is determined by the scanner's maximum scan area .



Toolbar

The toolbar has buttons for executing certain tasks. The toolbar includes Select Frame, Pan, Zoom In and Zoom Out.



Zoom In Tool

The Zoom In tool enlarges your view of the preview image, allowing you to set the scan frame with greater precision. Only the view size of the preview image is changed; the actual output size of the image remains the same. The magnification levels increase from 100%, 200%, 300% to 400%.



Zoom Out Tool

The Zoom Out tool reduces your view of the preview image, allowing you to set the scan frame with greater precision. Only the view size of the preview image is changed; the actual output size of the image remains the same. The reduction levels decrease from 400%, 300%, 200%, to 100%.



Pan Tool

The Pan tool lets you scroll through a preview image, allowing you to move the partial image into view. The Pan tool can be used with zoomed-in images, or images not completely displayed within the frame of the preview window (e.g., if your preview image is 7 inches wide and you resized the width of your preview window to only 3 inches).



Select Frame Tool

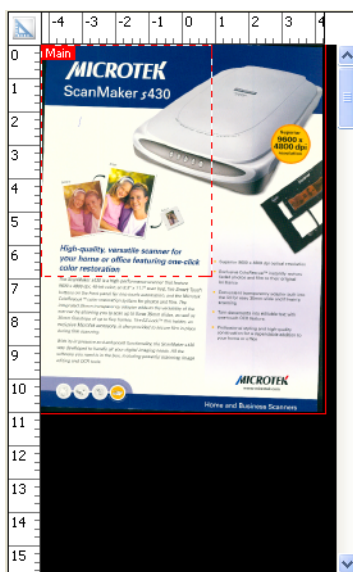
The Select Frame tool allows you make the frame selection and adjust the size of the frame for enclosing your final scan.

To select a frame, click the Select Frame tool button, then click on the frame you want to select.

To resize the frame, click the Select Frame tool button and point at any border of the frame until a two-way arrow pointer appears. Drag horizontally or vertically until you have achieved the desired width and height adjustments for the frame.



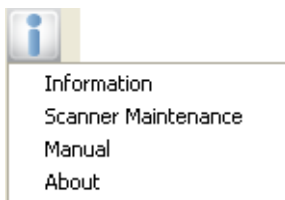
Before



After

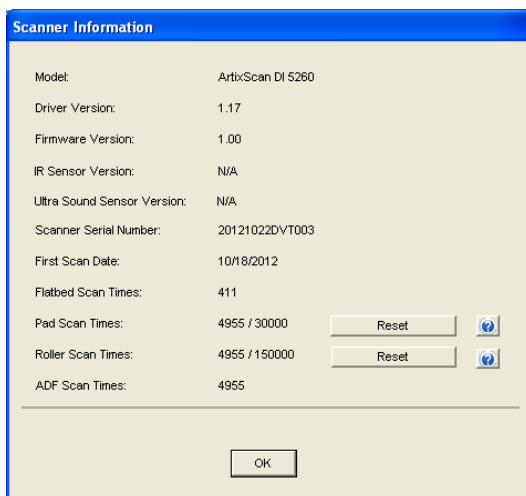
Information Button

The information button shows you the information about the scanner and software you are using.



Information

This command provides information about the scanner you are using currently. When you choose this command, a window appears on the screen, displaying a collection of facts such as the scanner model, driver and firmware versions, first scan date, and scan times. Only the information supported by the scanner will be shown in this window, which means that if your scanner supports ADF, the information about ADF will be shown in the window; otherwise it will not be displayed.



Flatbed Scan Times: Shows how many scan times performed through the flatbed.

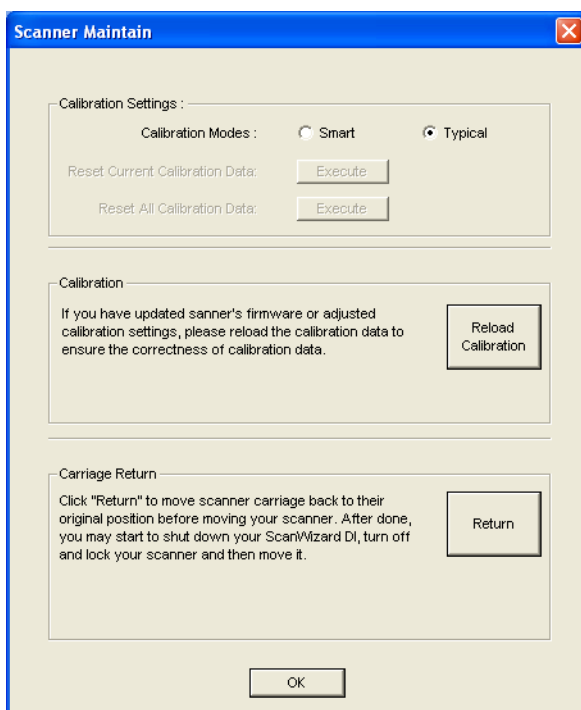
Pad Scan Times: Shows how many scans have been passed through the pad, which helps out to accumulate the replacement point for the pad. The recommended replacement point is when the numbers on two sides of the slash symbol are equal. You can press the Reset button to start recounting the scans for the pad after replacing a new one.

Roller Scan Times: This information shows you how many scans have been passed through the roller, which helps out to accumulate the replacement point for the roller. The recommended replacement point is when the numbers on two sides of the slash symbol are equal. Press the Reset button to start recounting the scans for the roller after replacing a new one.

ADF Scan Times: Shows how many scan times performed through the ADF. Scanner Maintenance

Scanner Maintenance

This command lets you adjust the settings of calibration for your scanner.



Calibration Settings

This option allows you to choose if you want to calibrate your scanner before performing a scan job each time. This feature is only available when using some scanner models (e.g., ArtixScan DI 4020, FileScan 1600XL).

- **Calibration Modes:**

Smart: When you check this option, the ScanWizard DI will memorize the calibration values generated by different scanning settings. Next time, when you perform a scan job with a same value of scanning settings, the scanner will skip the calibration step and directly perform a scan job. This mode enhances the scanning speed obviously when you often scan materials sharing same scanning settings.

Typical: This is the default setting of the program. If this option is selected, the ScanWizard DI calibrates your scanner before performing a scan job if the scanning settings are changed. If not, the scanner will skip the calibration process and start scanning immediately.

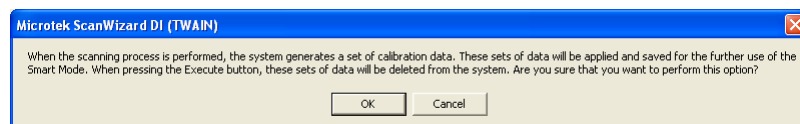
When the Smart mode is selected, you can also decide if you want to reset memorized calibration values.

- **Reset Current Calibration Data**

By clicking the Execute button after this option, the ScanWizard DI clear the calibration data with current scanning settings, which means that the program will need to re-calibrate your scanner and to re-memorize the calibration value if your next scan job carries the same scanning settings as the current values are using. This option only delete the calibration data you are using presently. Other saved calibration data are not affected.

- **Reset All Calibration Data**

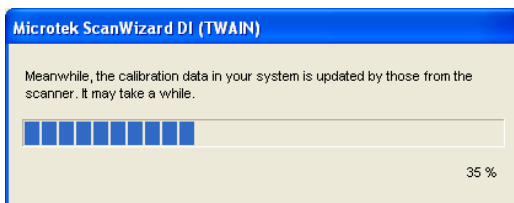
By clicking the Execute button after this option, the ScanWizard DI clear all saved calibration data; therefore, the program will need to re-calibrate your scanner and to re-memorize the calibration value when you perform the next scan job. Also, when you click the Execute button, a pop-up window appears to remind you if you are sure to clear all the saved calibration data.



Calibration

This command allows you to perform the scanner calibration and to update the current calibration data with new data.

When you press the Reload Calibration button, a progress bar appears on the screen which displays the progressing status of the calibration. Once the calibration is complete, you will be notified with a pop-up window. Click the OK button to quit this function.



Carriage Return

This command lets you enforce the scanner carriage to return to its original position manually. Click the Return button to start the moving of the scanner carriage.

Manual

This command lets you access the built-in help feature of ScanWizard DI, and gives you information on how to use the ScanWizard DI scanning software.

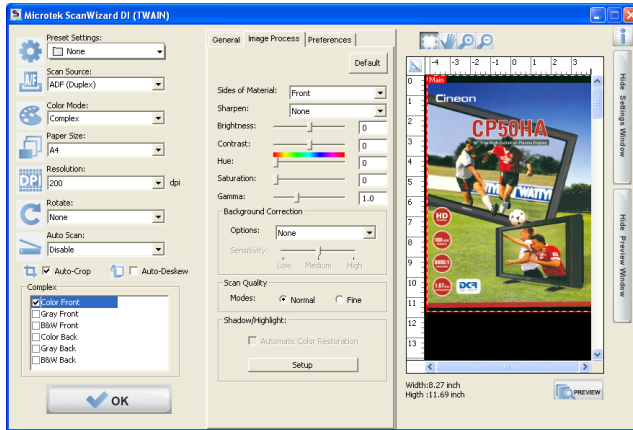
About

This command displays the ScanWizard DI splash screen and shows the program's version number.

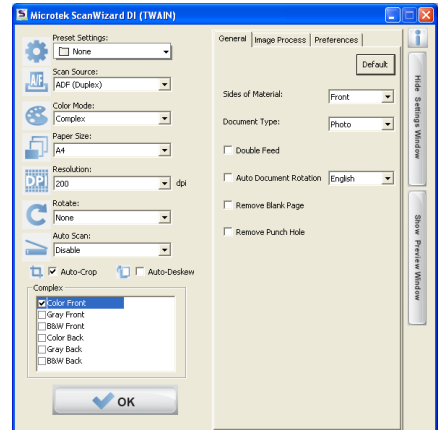


Hide/Show Preview Window Tab

This command tab allows you to switch between showing or hiding the Preview window in the Scan Setup interface.



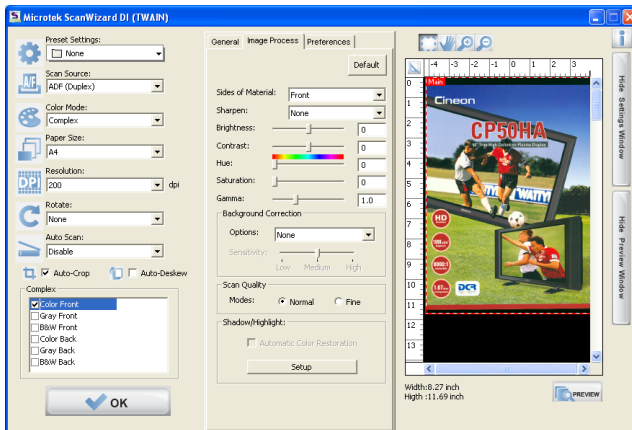
Show



Hide

Hide/Show Settings Window Tab

This command tab allows you to switch between showing or hiding the Settings window in the Scan Setup interface.



Show



Hide

Programming Function Buttons

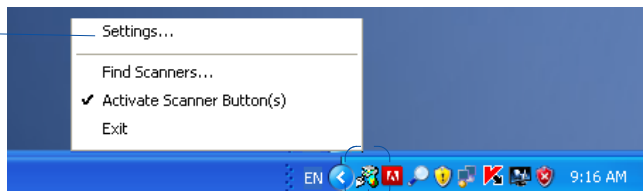
If the scanner you are using is equipped with function buttons, ScanWizard DI lets you save current image settings to these programmable function buttons (e.g., ArtixScan DI 6240S).

Starting Up Scanner Button Settings Interface

Before setting up scanner function buttons, follow the steps below to enable the Scanner Button Settings interface.

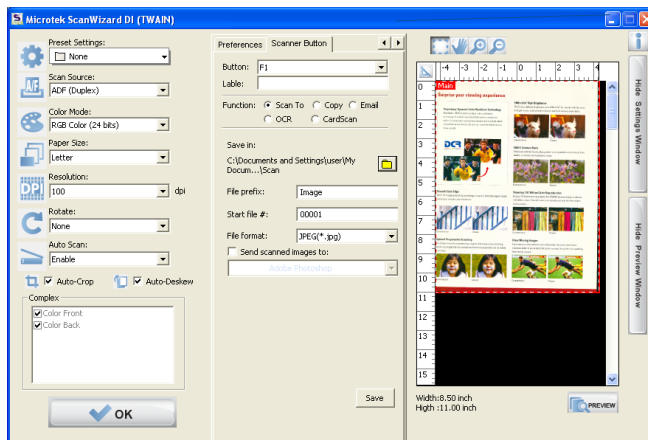
1. Look for the Scanner icon at the right corner of Toolbar on your Windows desktop.

Click Settings to enable the Scanner Button Settings interface



Scanner icon

2. Move your mouse onto the Scanner icon and then click the right button of the mouse. A small window appears on the screen. Select "Settings..." to activate the Scanner Button Settings interface.



Note: If you cannot find the proper scanner icon mentioned above, you can also start from the follow path: *Start, Programs, Microtek ScanWizard DI for Windows*, then *Microtek Scanner Finder*. Next, follow the step 1 and 2 above to start up Scanner Button Settings interface.

Scanner Button Settings Interface

Button

This drop-down menu lists the selectable destination function buttons on your scanner. The displayed name (i.e., F1) is the selected function button. When saved, all the detailed settings on the interface will be programmed onto the selected function button (F1). The saved function button can be loaded at a later time when necessary.

Label

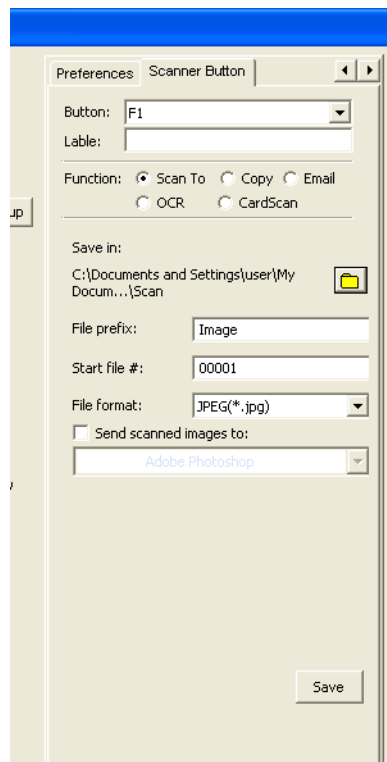
This edit box allows you to enter a label for the selected function button; the maximum string length for a label is 20 characters. Once settings have been saved to a function button, a Microtek Scanner Status message box displays label information as you press a specific function button.

Function

This command provides five functions (Scan To, Copy, Email, OCR and CardScan), allowing you to specify the programmable button function on the scanner.

Save

After finishing settings for function buttons, press the Save button to save these settings.



ScanTo Function

The Scan To is the function checked by default when the Scanner Button Settings interface is first activated. It allows you to define a function button as a set of scan settings. When you have completed the settings for this function, press the corresponding function button on your scanner, and the scanner will automatically scan and save your images based on your settings for this function.

Save in: This is the folder name to store images. To specify a folder name of your own, click the folder icon next to the “Save in” string.

File prefix: This edit box lets you enter a beginning string for a file name. “Image” is the default root file name.

Start file #: This edit box lets you enter a beginning number for a file name. “00001” is the default.

File format: This menu box lets you select a file format when a file is saved. Once the TIF format is selected, the scanned images will be automatically identified as “Image00001.tif”, “Image00002.tif”, etc. You can change the default root file name to uniquely label your scan jobs.

Send scanned images to: If this option is checked, the scanned images are sent to your selected application.

The screenshot shows the 'Scanner Button' preferences window. It has tabs for 'Preferences' and 'Scanner Button'. Under 'Function', 'Scan To' is selected with a radio button. Other options are 'Copy', 'Email', 'OCR', and 'CardScan'. The 'Save in:' field shows the path 'C:\Documents and Settings\user\My Docum...\Scan' with a folder icon to its right. Below this, 'File prefix:' is set to 'Image', 'Start file #' is '00001', and 'File format:' is 'JPEG(*.jpg)'. There is a checkbox for 'Send scanned images to:' which is checked, and a dropdown menu below it showing 'Adobe Photoshop'. A 'Save' button is located at the bottom right of the dialog.

Copy Function

The Copy function allows you to define a function button much like a conventional copier with your printer. When you have completed the settings for this function, press the corresponding function button on your scanner, and the scanner will scan the image and send it directly to your default installed printer, based on your settings for this function.

Current Printer: Shows the default printer.
To change the printer, click the “Setup...” button next to the printer name.

Show printer setting dialog box before scan:
Check this option if you want to display the printer dialog box of ScanWizard DI before you start to print.

The screenshot shows the 'Scanner Button' preferences window. At the top, there are tabs for 'Preferences' and 'Scanner Button'. Below the tabs, there are fields for 'Button:' (set to 'F1') and 'Label:'. The 'Function:' section has three radio buttons: 'Scan To', 'Copy' (which is selected), and 'Email'. Below these are two more radio buttons: 'OCR' and an unchecked checkbox. The 'Current Printer:' section displays the printer name '\\172.16.16.17\HP LaserJet P2035' and a 'Setup...' button. Below this is a checkbox labeled 'Show printer setting dialog box before scan.' which is currently unchecked. At the bottom right of the window is a 'Save' button.

Email Function

The Email function allows you to define a function button as a set of e-mail settings. When you have completed the settings for this function, press the corresponding function button on your scanner, and the scanner will scan, save and send the images directly to the default e-mail application assigned by the system.

Save in: This is the folder name to store images. To specify a folder name of your own, click the folder icon next to the “Save in” string.

File prefix: This edit box lets you enter a beginning string for a file name. “Image” is the default root file name.

Start file #: This edit box lets you enter a beginning number for a file name. “00001” is the default.

File format: This menu box lets you select a file format when a file is saved. Once the TIF format is selected, the scanned images will be automatically identified as “Image00001.tif”, “Image00002.tif”, etc. You can change the default root file name to uniquely label your scan jobs.

Send scanned images to: If this option is checked, the scanned images are sent to the default e-mail application assigned by the system.

The screenshot shows the 'Scanner Button' preferences window. The 'Function' section has three radio buttons: 'Scan To', 'Copy', and 'Email' (which is selected). Below this, there is a 'Save in:' section with a text box containing 'C:\Documents and Settings\user\My Doc...\E-mail' and a folder icon button. The 'File prefix:' text box contains 'Image'. The 'Start file #' text box contains '00001'. The 'File format:' dropdown menu is set to 'JPEG(*.jpg)'. There is a checkbox labeled 'Send scanned images to:' which is checked. Below this checkbox is a dropdown menu showing 'System Default E-mail'. A 'Save' button is located at the bottom right of the window.

OCR Function

The OCR function allows you to define a function button as a set of OCR settings. When you have completed the settings for this function, press the corresponding function button on your scanner, and the scanner will scan the image and save it as a text file ready for OCR and editing.

Save in: This is the folder name to store images. To specify a folder name of your own, click the folder icon next to the “Save in” string.

File prefix: This edit box lets you enter a beginning string for a file name. “Document” is the default root file name.

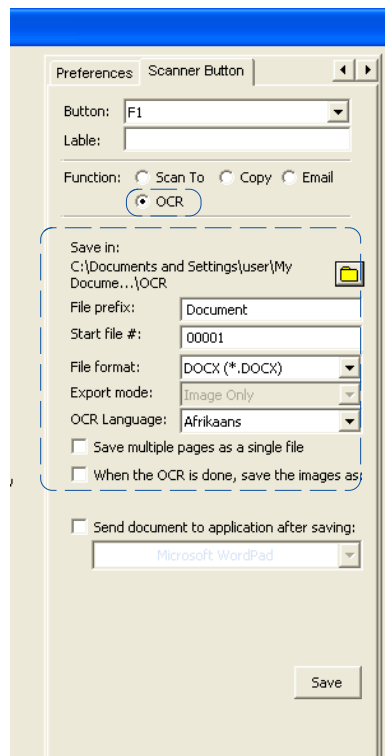
Start file #: This edit box lets you enter a beginning number for a file name. “00001” is the default.

File format: This menu box lets you select a file format in saving; RTF is the default file format. Once the RTF format is selected, the scanned pages will be automatically identified as “Document00001.rtf”, “Document00002.rtf”, etc. You can change the default root file name to uniquely label your scan jobs.

OCR Language: This refers to the language in which the original text document is written. Supported options are up to 52 languages, including English, French, German, Italian, Spanish, and Chinese.

Export mode: This refers to the layouts of text and images on exported PDF files. It is activated only when File format is set as PDF.

Save multiple pages as a single file: This allows you to save the scanned pages as a single file. You can enable this option if the output page file format is RTF, TXT, or PDF. When enabled, ScanWizard DI will prompt you to place the next page as you scan from the scanner bed, then click the Continue button to scan; or click the Close button to save multiple pages as a single file. If you scan through the ADF, originals are sequentially scanned until paper out; when finished, all the scanned pages are saved as a single file.



When the OCR is done, save the image as: This allows you to save the scanned images as TIF, JPG, or BMP format after the OCR process is done. If “Save multiple pages as a single file” option is checked, this option will be disabled and cannot be selected.

Send document to application after saving: If this option is checked, the scanned images are sent to your selected application.

CardScan Function

The CardScan function allows you to define a function button as a set of card settings (ex., credit cards, business cards and membership cards). When you have completed the settings for this function, press the corresponding function button on your scanner, and the scanner will automatically scan and save your images based on your settings for this function. This function appears only when your scanner supports scanning of cards.

Save in: This is the folder name to store images. To specify a folder name of your own, click the folder icon next to the “Save in” string.

File prefix: This edit box lets you enter a beginning string for a file name. “Image” is the default root file name.

Start file #: This edit box lets you enter a beginning number for a file name. “00001” is the default.

File format: This menu box lets you select a file format when a file is saved. Once the TIF format is selected, the scanned images will be automatically identified as “Image00001.tif”, “Image00002.tif”, etc. You can change the default root file name to uniquely label your scan jobs.

Send scanned images to: If this option is checked, the scanned images are sent to your selected application.

Retain even page(s): If this option is checked, the system will also save the scanned image of the back side of the card. By default, this option is checked. If you do not want to save the scanned image for the back side of the card, please uncheck this option before clicking the Save button.

