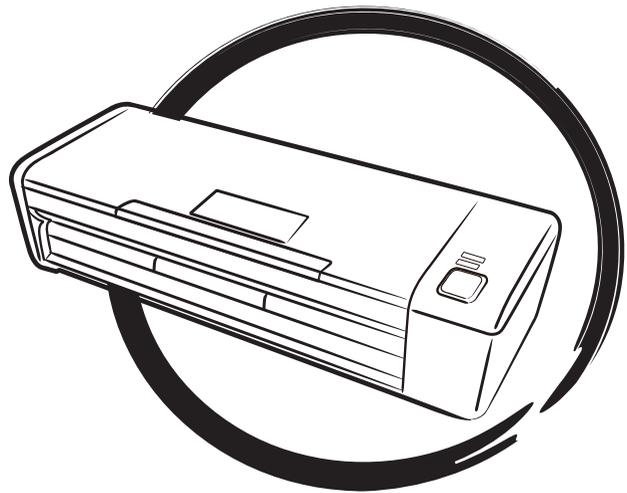


# Document Imaging Scanner

## SmartSource **Advantage** User's Manual



## Preface

### Copyright

This document may not be reproduced or copied in any way, stored electronically, or translated into any language, without the permission of DCT.

### Disclaimer

The contents of this manual have been checked carefully for accuracy, and every effort has been made to ensure that there are no errors. However, DCT makes no guarantee as to the accuracy of the contents of this document and reserves the right to make changes to the contents without prior warning.

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July 2010

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## FCC Compliance Statement

This equipment (SmartSource Advantage) has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: A shielded Hi-Speed USB interface cable with ferrite core installed on the scanner connector end must be used with this equipment.

Caution: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Safety Precautions

Before using your scanner, read the following safety guides carefully, which detail the proper operation of the scanner and its accessories to prevent injuries or damage to users or equipment.

### Power Source and AC Power Cord:

- Use a power source only with a power rating specified on the marking label.
- Insert the plug completely into the outlet, as a loose connection may cause arcing and result in fire.
- Place and route the power supply cord such that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the cord near the power plugs, convenience receptacles, and at the point where it exits from the outlet.
- When the scanner is left unattended and unused for long periods of time, unplug it from the wall outlet.

### Moving and Storing the Scanner:

- Do not place the scanner on any slippery, slanted, or unstable surface. The product may slide or fall, causing serious injury to people as well as serious damage to the product.
- Do not use this scanner near water. Never spill liquid of any kind on the product, or it may result in electric shock or other hazards.
- This scanner should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

### Service:

- When you need a repair service, unplug the scanner from the power outlet and consult qualified service personnel.
- When replacement parts are required, use replacement parts that are specified by the manufacturer or have the same characteristics as the original parts.

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# Knowing about Your Scanner

SmartSource Advantage is a sheet-fed color document scanner with a built-in automatic document feeder (ADF) that can hold up to 20 sheets of papers for the unattended volume scanning. It features 600 dpi optical resolution, 65-inch (1651 mm) long document scanning support, and has a throughput run of 15 pages (simplex) or 30 images per minute (duplex) in color.

## Features of SmartSource Advantage

SmartSource Advantage comes with several important features, including the following:

- Portable, compact and convenient — With a perfect small size, SmartSource Advantage reforms your imagination about a sheet-fed scanner. From the office to the home, the coffee shop to the hotel, SmartSource Advantage easily affords users portable and mobile opportunities for document capture on the go.
- Superb ability to handle documents in versatile materials — SmartSource Advantage lets users easily digitize patient IDs, business cards, bank statements, legal documents, insurance papers, and medical records in just seconds.
- Duplex scanning in a single pass— Allows you to scan both sides of one sheet in a single pass. With this feature, the scanner can handle up to 40 ipm in grayscale/black & white and 30 ipm in color at 200 dpi.
- Automatic document feeder with card scanning — The automatic document feeder can hold up to 20 sheets of papers (0.05" /1.25 mm thickness) at a time, supporting dimensions from 3.15" x 2.1" (80 mm x 52 mm) to 8.5" x 65" (216 mm x 1651 mm).
- Energy-saving LED light source — Adopting LEDs as the light source, when the scanner is detected by the system, there are no requirements for any warm-up time before carrying out the scan, which boots your productivity and reduces energy costs. With its stable performance, the image quality will remain consistent even after this scanner is used for a certain period of time.
- One programmable function button — The programmable function button on the front panel provides you with an intuitive and easy way to access scanner functions.
- Hi-Speed USB port — Hi-Speed USB is capable of high data transfer rates of up to 480 Mbit/sec, providing the high data transfer rate via the included Hi-Speed USB cable.

- New and advanced ScanWizard DI software — Its all-in-one control panel offers a host of features and image adjustment controls. Supporting the TWAIN driver, ScanWizard DI also features full document scanning tools and on-screen proofing. Its multi-scanning area and preview option allow you to obtain quick scans in the preview window. It comes out several distinguished advantages:
  - Barcode separator — With this feature, you can batch scan documents without starting and stopping each time a new file begins by using barcode numbers on the documents. It saves you huge amounts of time and money to organize, to index and to search files of documents in seconds, enhancing the efficiency and productivity of file management.
  - Paper count — The paper count feature 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 the use of your scanner more effectively.
  - Save multiple images as a single file — This advanced feature allows user to save multiple scanned images as a single file, depending on the number of the scanned images that are defined for document archival.
  - 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.
  - Color dropout — Red, green and blue colors can be dropped out to allow for clearer and more accurate forms processing with problematic color documents.
  - 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.
  - 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.

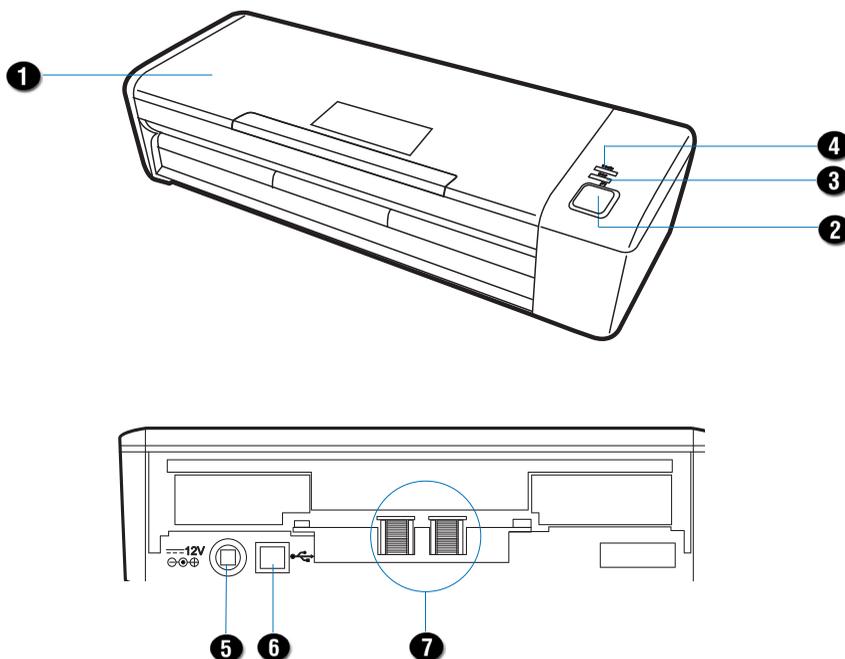
## Installation Requirements

In order to use your SmartSource Advantage, your computer must satisfy the following system requirements:

- CD-ROM drive (for installing software)
- Color display with 24-bit color output capability
- 512 MB RAM or more
- Pentium IV PC or higher with a Hi-Speed USB (USB 2.0) port
- Microsoft Windows 2000, XP, Vista or 7

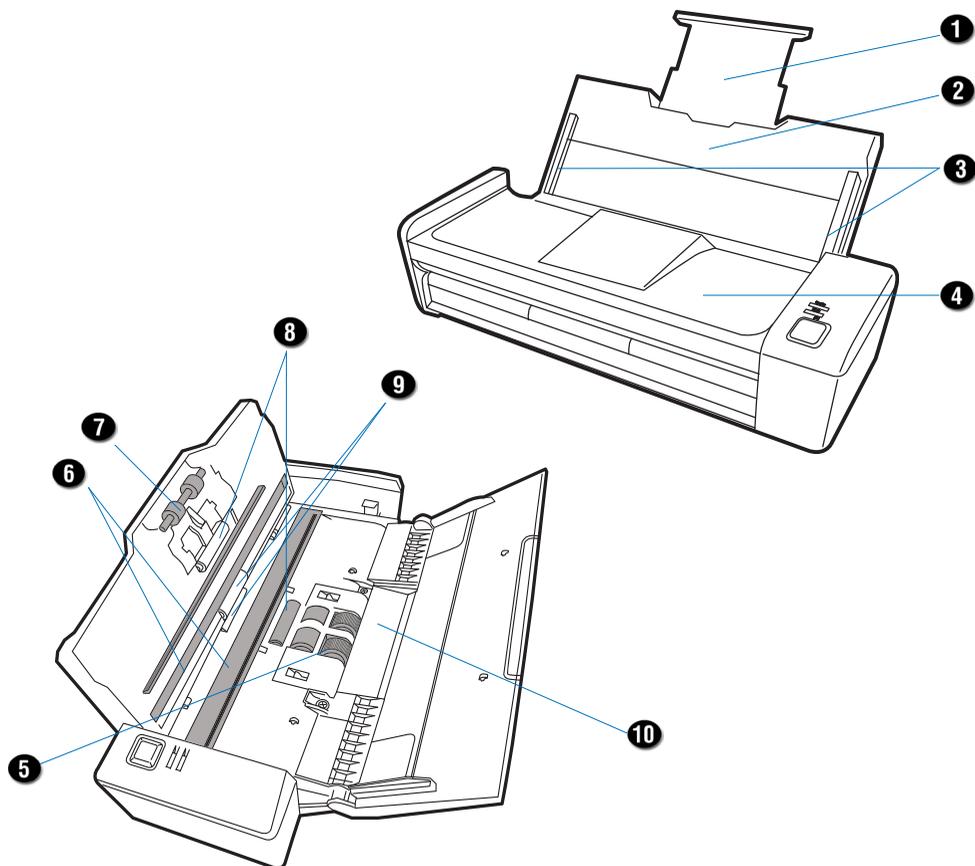
# Taking a Closer Look

## Front/Back View



No.	Names of Parts	Functions of Parts
1	Top Cover	Document feed tray
2	Programmable Function Button	Allows users to customize the button to perform its preferred functions via software settings.
3	ERROR Indicator (Red)	Indicates if errors happen when the scanner is running.
4	READY Indicator (Green)	Indicates the scanner is ready to scan.
5	Power Connector	Connects the scanner to the power adapter.
6	Hi-Speed USB Port	Connects the Hi-Speed USB (USB 2.0) cable to the computer.
7	Feed Roller Assembly	Used to feed documents into the feeder.

## Open View



No.	Names of Parts	Functions of Parts
1	Tray Extender	Used to extend the length of the document feed tray.
2	Document Feed Tray	Holds the documents to be fed into the feeder.
3	Guide Arm	Slides to hold a stack of documents.
4	Scanner Cover	The cover of the scanner.
5	Feed Roller Assembly	Used to feed documents into the feeder.
6	Glass Surfaces	The places where the CIS cartridges are stored.
7	Separation Roller Assembly	Used to separate each sheet when a stack of documents are fed into the feeder.
8	Pick Rollers	Used to pick up documents into the feeder.
9	Output Rollers	Used to eject documents after scanning.
10	Card Tray	Holds the card to be fed into the feeder.

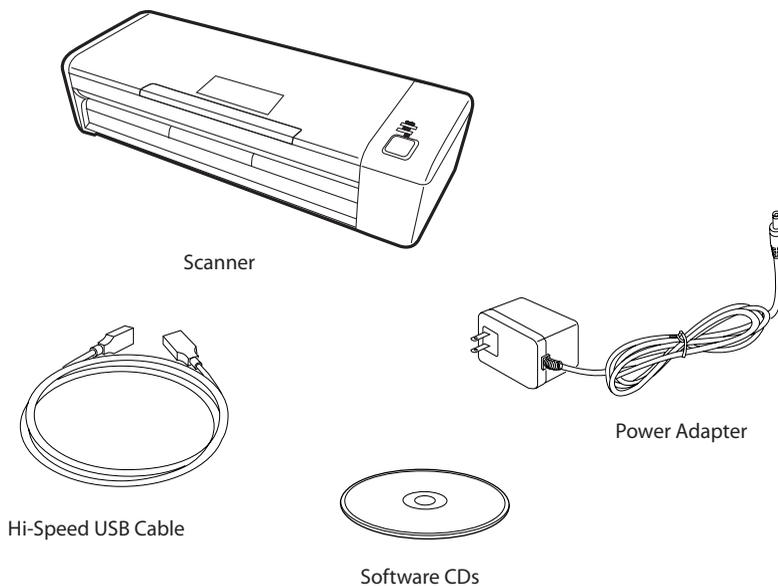
# Initial Setup

## Following Three Easy Steps

After unpacking your scanner package, follow the steps in order for a quick and easy installation process.

### Step 1: Unpacking Package Contents

After unpacking your scanner package, please check for the major components listed below.



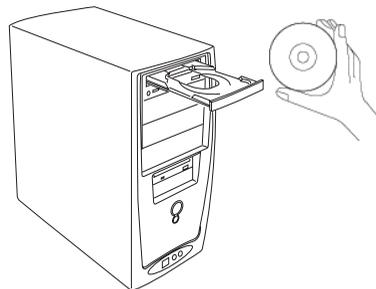
## Step 2: Installing the Software

Important: You must install all software before connecting your scanner. Always close any open programs and turn off anti-virus utilities before installing software.

1. Turn on your computer.
2. Place the SmartSource Advantage CD-ROM into your CD-ROM drive.
3. Follow the on-screen instructions to install the driver and software.

Note: If the ScanWizard DI software installer screen does not come up automatically, double-click the following in succession: "My Computer"; the CD-ROM icon; then cdsetup.exe to start the installer program.

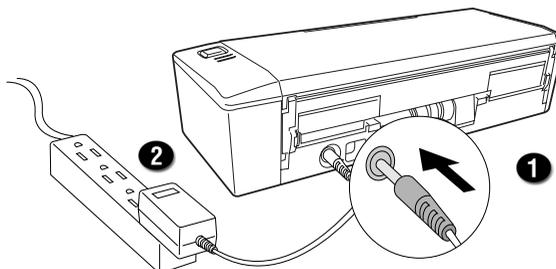
4. To install the software on the SmartSource Advantage CD-ROM, click each software program in the order that it appears on the screen to install, and follow the on-screen instructions.
5. Click EXIT on the ScanWizard DI software installer screen when all of the software has been installed.
6. Restart your computer.



## Step 3: Connecting the Scanner

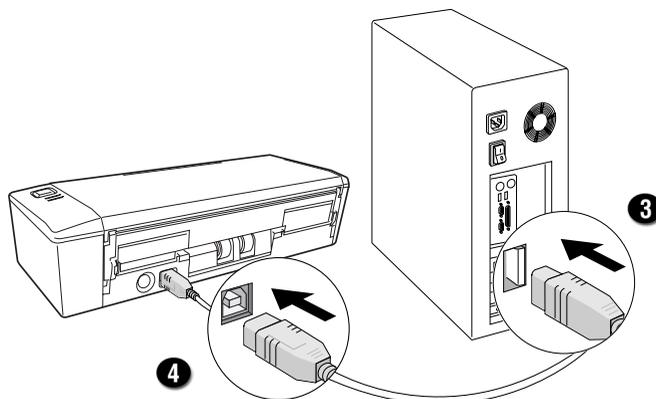
### To the Power Adapter

1. Connect the power adapter to the back of the scanner.
2. Plug the other end of the power adapter into a wall outlet or other power source.



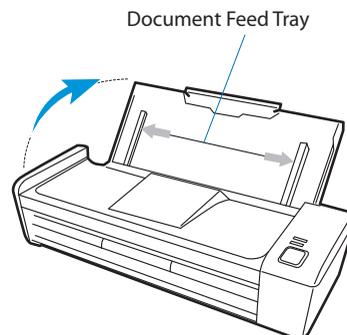
### To the Hi-Speed USB Cable

3. Connect one end of the Hi-Speed USB cable to your computer.
4. Connect the other end of the Hi-Speed USB cable to the scanner's USB port.



5. Open the top cover (document feed tray) to turn on the scanner.

Once the scanner is detected by your system, the LED (green) will brighten, and the scanner is ready to scan.

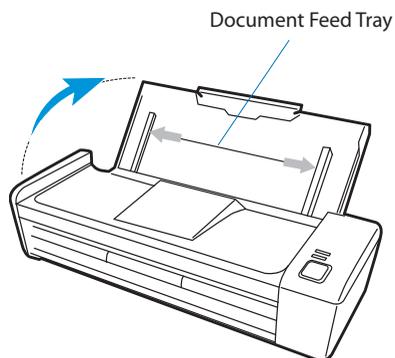


# Positioning Documents

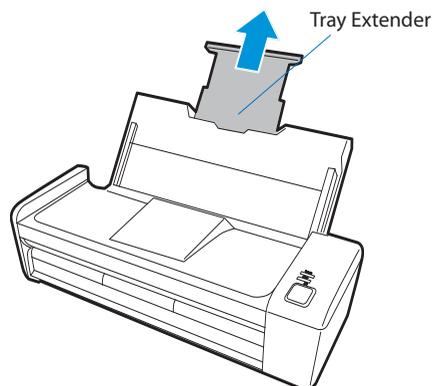
This section shows you how to position a stack of documents, as well as driver's licenses, into the feeder.

## To Load a Stack of Documents

1. Open the top cover (document feed tray) of the scanner.

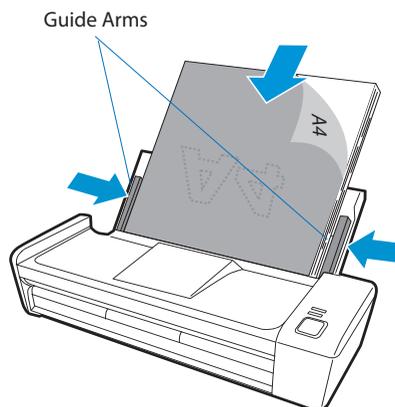


2. Pull out the top tray extender for better paper support if needed.



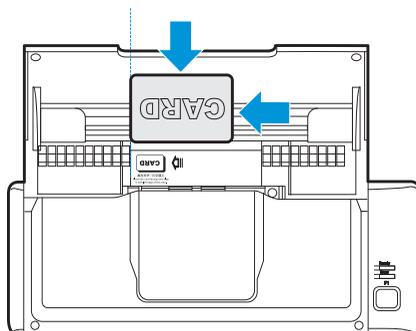
3. Load and center the stack of documents onto the document feed tray, with the side to be scanned facing down and the top edge facing toward the feeder.

Then, slide the two guide arms toward the stacked papers if needed.



## To Load Cards

1. Open the top cover (document feed tray).
2. Load the card face up into the card tray located at the bottom of the document feed tray, with the top edge facing toward the tray.
3. Align the card against the left edge of the card tray.



## Document Notices

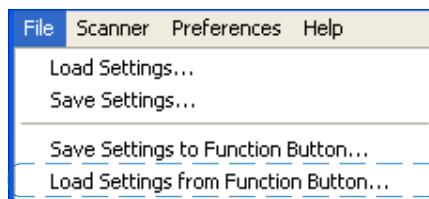
Note: There are several precautions and reminders about using the scanner correctly. Please refer to the section below for details.

- The scanner is not designed for scanning photos; doing so may damage your originals. Burroughs accepts no responsibility for damage that may arise from misuse of equipment.
- The scanner can handle document specifications:
  - Paper size: Min. 3.15" x 2.1" (80 mm x 51 mm)  
Max. 8.5" x 65" (216 mm x 1651 mm)
  - Paper weight: 10.7 to 32 lbs. (40-120 g/m<sup>2</sup>)
  - Card thickness: Up to 0.078" (2 mm).
- If the documents are torn, curled, or wrinkled, do not put them into the scanner to scan, because they may cause paper jams.
- Remove paper clips or staples before placing documents into the tray. **DO NOT** use the scanner to scan documents with paper clips or staples because they may cause paper jams or damage the scanner.
- Feeder capacity: Up to 20 sheets of 20 lb. paper or 1 card

## Customizing the Function Button

SmartSource Advantage is equipped with one programmable function button (F1) that can be customized to automate a number of predefined operations, such as scanning to a file, sending an image to your printer, scanning for OCR, etc. Customizing is done through the “Save Settings to Function Button” command, as explained below.

1. Launch ScanWizard DI (either as a stand-alone by clicking the program icon, or by using the “File-Import” or “Scan” command from an application program).
2. Follow the procedures (steps 3 through 7) for the “Scan a Stack of Documents” section to specify your scanning requirements in the ScanWizard DI panel.
3. When you finish specifying the scanning settings, choose the “Save Settings to Function Button” command from the File menu. The dialog box appears.
4. In the dialog box, specify your requirements for the F1 button.
  - a) Select F1 to be defined from the Button options.
  - b) Key in your preferred string in the Label edit box for the selected function button.
  - c) Make your selection among the Function radio buttons below to define your selected button. The three functions provided are:
    - Scan To: Captures images that can be automatically saved as files or sent to another application for further processing. This is the default selection.
    - Copy: Scans the image and sends it to your printer, transforming your scanner and printer into a convenient copy station. Simply specify the number of copies you want.
    - OCR: Performs OCR (Optical Character Recognition) of a document and converts it to a fully editable digital file. Saves time from retyping documents into your word processor.
5. Specify the function settings according to your requirements, then click the OK button. The parameters currently specified for your selected function button are saved.



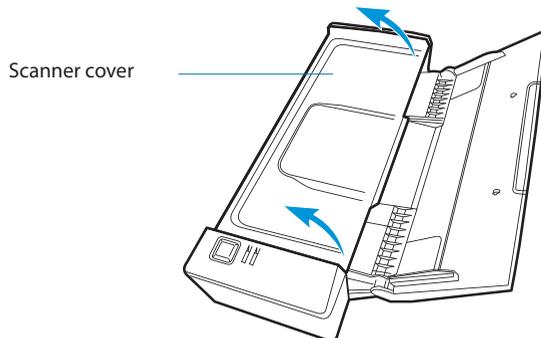
Note: When you have finished the settings for the function button, you will need to exit ScanWizard DI before pressing the function button on the scanner to carry out the defined task. If you press a function button on the scanner while ScanWizard DI is activated, the scanner only performs a preliminary scan of the image. To browse the settings of your original function button (in case you do not remember the settings that you assigned previously), use the “Load Settings to Function Button” feature. To do this, select the “Load Settings to Function Button” command from the File menu, choose the function button to be previewed, and click the OK button. The saved function button settings are restored to the ScanWizard DI control panel. You can then continue to use these settings until you need to specify new settings for the buttons.

# Care and Cleaning

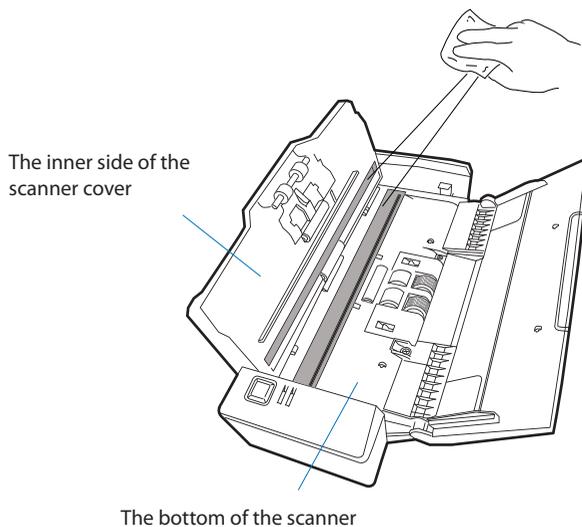
To ensure optimal performance from SmartSource Advantage, it is important to clean several critical parts of the scanner on a regular basis.

## Cleaning the Scanner Glass Surfaces

1. To open the scanner cover, hold the two sides of the scanner cover and pull them up firmly.



2. When the scanner cover is opened, you can find two scanner glass surfaces located at the bottom of the scanner and on the inner side of the scanner cover. Use a soft, non-abrasive and lint-free cloth to gently wipe the glass surface areas.

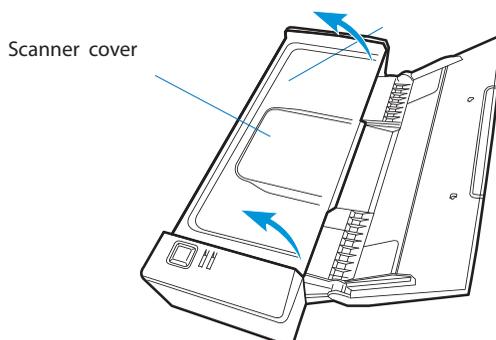


**Note:** Do not use any detergents, synthetic cleaning solutions, cleaning naphtha, or other solvents to clean the glass surface directly. To remove stains, use cotton swabs moistened with rubbing alcohol.

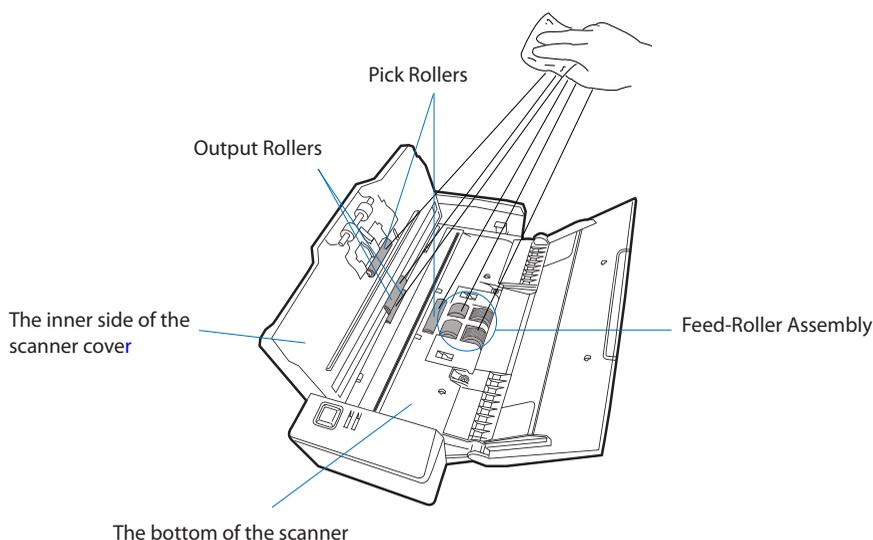
## Cleaning the Rollers

Prolonged use of the scanner may result in accumulation of ink and other residue on the feeder's rollers, affecting their efficiency. Clean the rollers periodically to maintain performance.

1. Hold the two sides of the scanner cover and pull up firmly, then open the scanner cover.



2. When the scanner cover is opened, you can find several groups of rollers located at the bottom of the scanner and the inner side of the scanner cover. Then, clean the rollers with a lint-free cloth or a swab moistened with alcohol or ECO cleaner, as shown in the graphic below.



**Note:** Do not attempt to spin or rotate the rollers while cleaning, for it may damage the drive train mechanism of the scanner.

# Maintenance

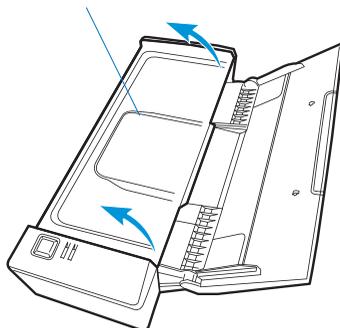
The separation roller assembly and the feed roller assembly in your scanner are designed to make document feeding smooth. After usage for a period of time, the separation roller assembly and feed roller assembly may become worn, and a problem such as document double-feed may occur. In this case, check either the separation roller assembly or the feed roller assembly, and replace them if needed. Follow the procedure below for replacement of the separation roller assembly and feed roller assembly.



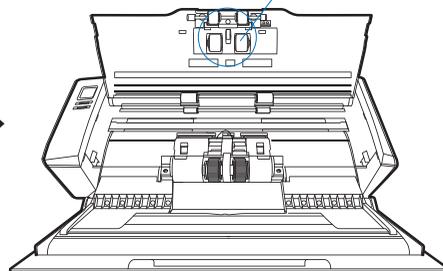
## Replacing the Separation Roller Assembly

1. Open the scanner cover. Locate the separation roller assembly at the top of the inner side of the scanner cover.

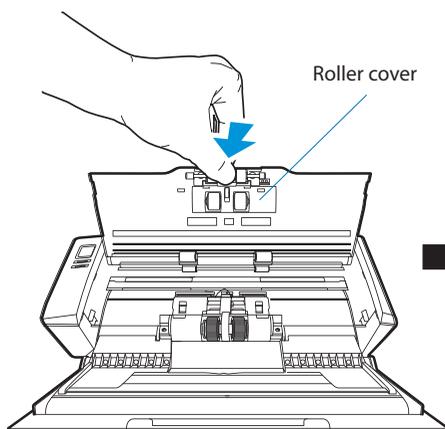
Scanner cover



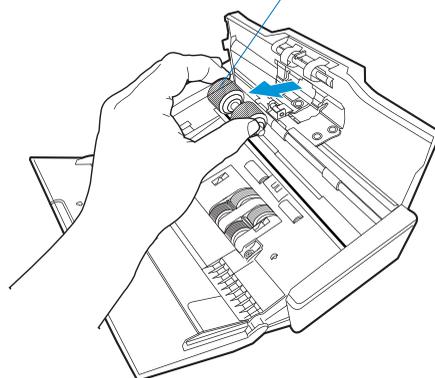
Separation roller assembly



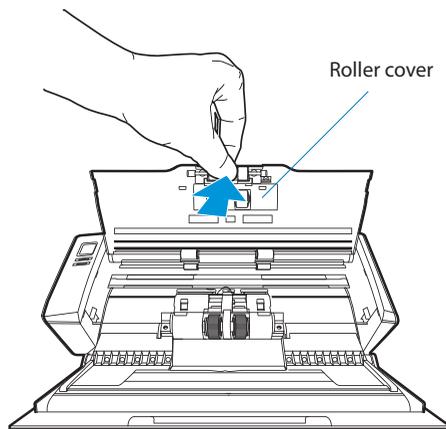
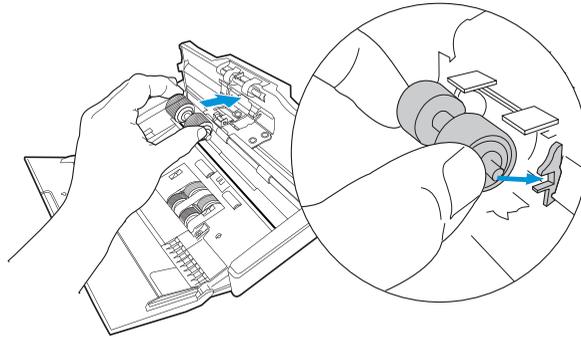
2. Push down and then pull the cover lever to open the roller cover first. Hold both sides of the rollers to pull out the separation roller assembly from its compartment.



Separation roller assembly

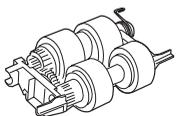


3. To insert the new separation roller assembly into its compartment, insert the axles on both sides of the rollers into the slots on both sides of the compartment.
4. Close the roller cover completely so that it clicks into place.



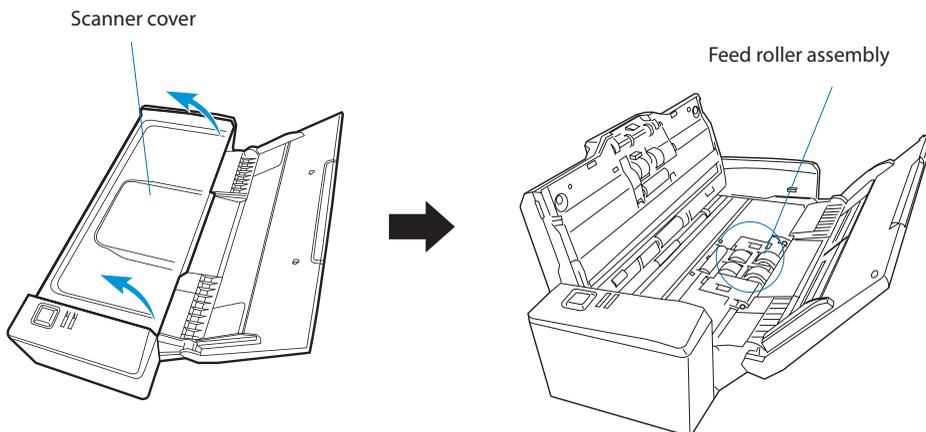
Note:

- The recommended replacement point for the separation roller assembly is approximately 20,000 sheets.
- Please contact your local resellers for purchasing new separation roller assembly.

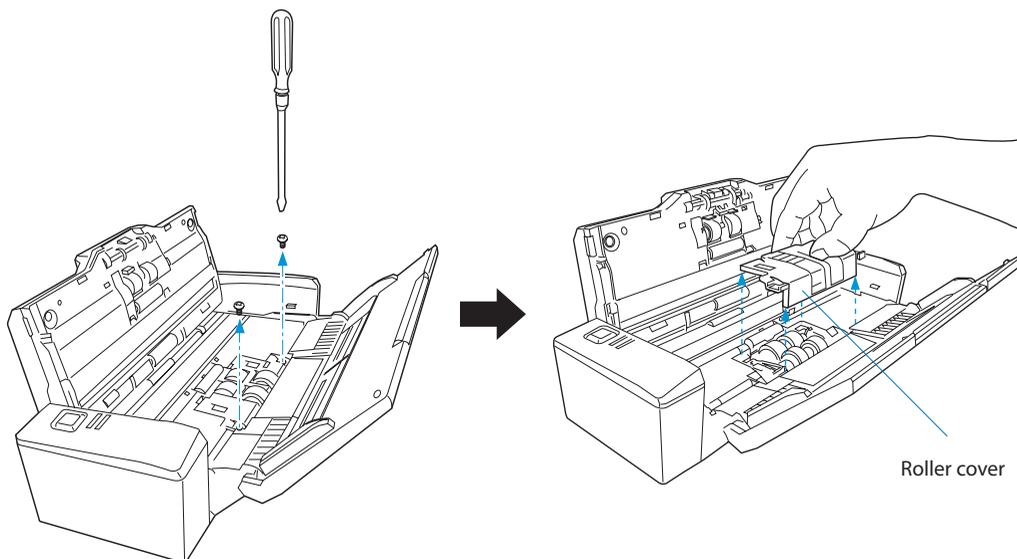


## Replacing the Feed Roller Assembly

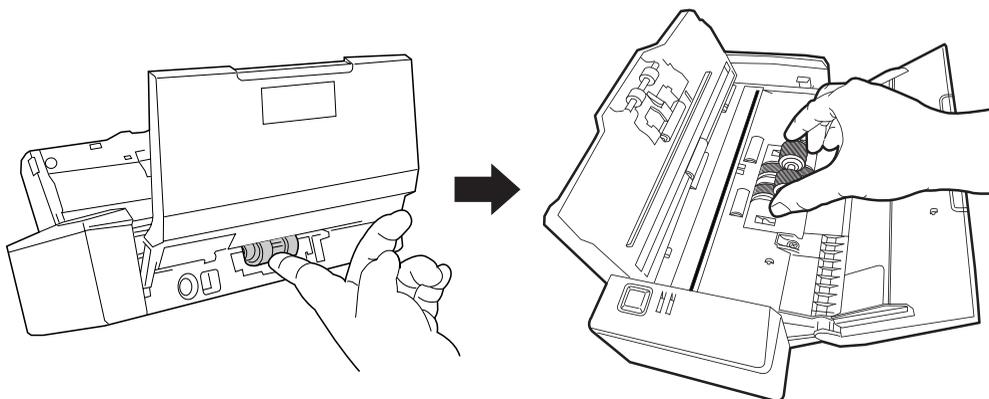
1. Open the scanner cover. Locate the feed roller assembly at the bottom of the scanner.



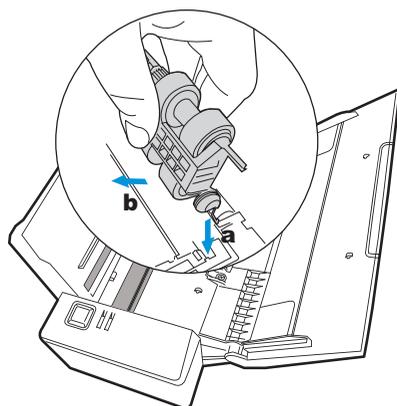
2. Loosen the screws on the roller cover with a screwdriver. Then hold the roller cover and pull it out carefully.



3. Tilt the scanner slightly on its back side to locate the feed roller assembly. Push it up a bit at the bottom and then hold both sides of it to pull it out carefully from its compartment.



4. Insert the new feed roller assembly into its compartment;
  - a) Snap the notches on the two sides of the feed roller assembly onto the shafts, located on the two sides of the compartment.
  - b) Finally, push down the feed roller assembly flat into its compartment.
5. Put the roller cover back and tighten the screws to lock the roller cover at the bottom of the scanner.



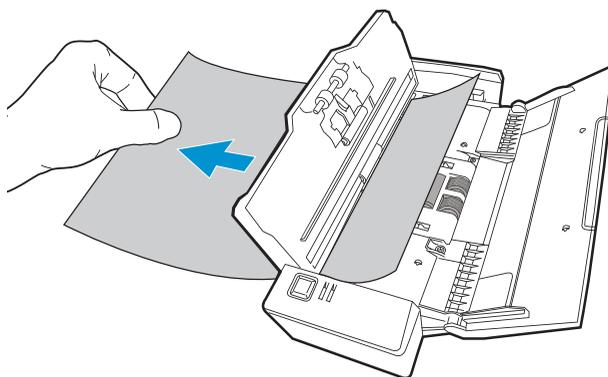
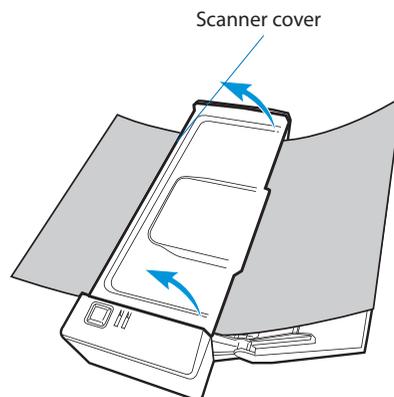
Note:

- The recommended replacement point for your feed roller assembly is after scanning approximately 30,000 sheets through the feeder.
- Please contact your local resellers for purchasing the new feed roller assembly.

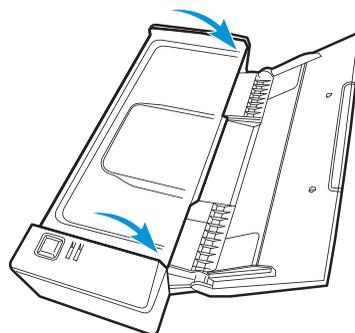
# Appendix

## Fixing Paper Jams

1. Hold the two sides of the scanner cover and pull them up firmly to open the scanner cover.
2. Remove the jammed paper by pulling it out in the ejecting direction.
3. Close the scanner cover. You will hear a click sound when the scanner cover returns to its original position.



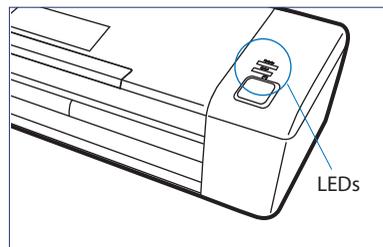
Note: Do not take out a jammed paper by force from the scanner when the scanner cover closes. By doing so, it may damage the rollers and cause the scanner to work improperly.



## Troubleshooting

The LEDs on the top panel of the scanner indicate the status of the scanner.

	Green On
	Ready to scan
	All On
	Scanning errors
	All Off
	Scanner is off.



First, make sure that you have followed Steps 1 to 3 as described in the “Initial Setup” section of this document (unpack, install, connect). If your problem is listed here, try the suggested solution.

- No light comes on when the scanner is already supplied with power.

Make sure your scanner is connected to your computer and plugged into a power source.

Make sure the document feed tray is opened.
- The Add/Remove Hardware Wizard appears on your screen.

Click the “Cancel” button and close the ScanWizard DI control panel. Disconnect the Hi-Speed USB cable from the back of your computer, and refer to the installation instructions in this document.
- When trying to scan, an error message appears on your screen that reads, “Can’t Find Scanners”.

Make sure your scanner is connected to your computer and plugged into a power source (see Step 3 in the “Initial Setup” section).

Uninstall and reinstall the ScanWizard DI software.
- Ink stains or strips appear on the scanned images.

Clean the glass surface areas with a soft, non-abrasive and lint-free cloth.

Clean the rollers with a lint-free cloth or a swab moistened with alcohol or ECO cleaner.
- After clicking Scan, a blank screen appears.

Uninstall and reinstall the ScanWizard DI software.
- When trying to scan, an error message appears on your screen that reads, “ADF is not ready or no paper”.

Make sure there are papers on the document feed tray.

Make sure the top edges of the papers have been inserted into the feeder.

7. The scanner cannot pick up papers into the feeder.

Make sure the sheets of papers loaded on the document feed tray do not exceed the thickness limit. The thickness limit is 2 mm.

Check if the separation roller assembly becomes worn and needs to be changed.

8. When trying to scan, an error message appears on your screen that reads, "Code -206, ADF paper jam or roller failure."

Click OK first, then open the scanner cover, as illustrated in the previous section "Fixing Paper Jams".

- If the problem is occurring from a paper jam, follow the procedures laid out in the "Fixing Paper Jams" section.
- If the problem is occurring from situations other than a paper jam, follow the procedures laid out in the "Position Documents" section.

Finally, close the scanner cover and restart scanning.

## Specifications

Model Type	SmartSource Advantage																					
Type	Sheet-fed color document scanner																					
Scanning Modes	Color, grayscale, and black-and-white in a single scanning pass  Input: 48-bit color/16-bit grayscale/1-bit B&W Output: 24-bit color/8-bit grayscale/1-bit B&W																					
Optical Resolution	600 x 600 dpi																					
Scanning Sensor	CIS																					
Light Source	LED (Light Emitting Diode) Class 1 LED Product																					
Scanning Speed	Simplex: 20 ppm, at 200 dpi, A4/line art 20 ppm, at 200 dpi, A4/grayscale 15 ppm, at 200 dpi, A4/color Duplex: 40 ipm, at 200 dpi, A4/line art 40 ipm, at 200 dpi, A4/grayscale 30 ipm, at 200 dpi, A4/color																					
Scanning Area	8.5" x 65" (216 mm x 1651 mm)																					
Feeder Capacity	Up to 20 sheets of 20 lb. paper or 1 business or ID card																					
Paper Weight	10.7 to 32 lbs. (40-120 g/m <sup>2</sup> )																					
Paper Size	Min: 3.15" x 2.1" (80 mm x 52 mm) Max: 8.5" x 65" (216 mm x 1651 mm)																					
Card Thickness	Up to 0.078" (2 mm)																					
Separation Roller Assembly Life	20,000 scans																					
Feed Roller Assembly Life	30,000 scans																					
Interface	Hi-Speed USB 2.0																					
Dimensions (L x W x H)	11.29" x 4.33" x 2.71" (287 mm x 110 mm x 69 mm)																					
Weight	2.64 lbs. (1.2 kg.)																					
Voltage	AC100V-240V, 50-60 Hz, 0.5A max. (Input) DC 12V, 1.5A (Output)																					
Power consumption	15 W max.																					
Power supply (AC/DC adapter)	<table> <thead> <tr> <th>Voltage</th> <th>MFR</th> <th>Model No.</th> </tr> </thead> <tbody> <tr> <td>100V to 240V</td> <td>APD</td> <td>WA-18G12U (US/TWN)</td> </tr> <tr> <td>100V to 240V APD</td> <td></td> <td>WA-18G12G (EU)</td> </tr> <tr> <td>100V to 240V APD</td> <td></td> <td>WA-18G12K (UK)</td> </tr> <tr> <td>100V to 240V APD</td> <td></td> <td>WA-18G12N (AU)</td> </tr> <tr> <td>100V to 240V APD</td> <td></td> <td>WA-18G12S (Korea)</td> </tr> <tr> <td>100V to 240V APD</td> <td></td> <td>WA-18H12</td> </tr> </tbody> </table>	Voltage	MFR	Model No.	100V to 240V	APD	WA-18G12U (US/TWN)	100V to 240V APD		WA-18G12G (EU)	100V to 240V APD		WA-18G12K (UK)	100V to 240V APD		WA-18G12N (AU)	100V to 240V APD		WA-18G12S (Korea)	100V to 240V APD		WA-18H12
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Environment	Operating temperature: 50° to 95°F (10° to 35°C) Relative humidity: 10% to 80%																					