Kodak

i5000 Series Scanners

User's Guide

User's Guide on Installation CD
Guide d'utilisation sur le CD d'installation
Benutzerhandbuch auf der Installations-CD
Manuale per l'utente sul CD di installazione
Guía del usuario en el CD de instalación
Guia do Usuário no CD de instalação
Gebruikershandleiding op installatie-cd
Kurulum CD'sindeki Kullanım Kılavuzu
Uživatelská příručka na instalačním disku CD
安装光盘上的用户指南
安裝光碟上的《使用者指南》
インストールCDのユーザーズガイド
설치 CD의 사용 설명서
دليل المستخدم على القرص المضغوط الخاص بالتثبيت
Руководство пользователя на установочном компакт-диске
Ghidul utilizatorului de pe CD-ul de instalare
Felhasználói útmutató a telepítő CD-n
Podręcznik użytkownika na instalacyjnym dysku CD
Οδηγός χρήσης στο CD εγκατάστασης

A-61670
5K3557

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Safety

User Precautions

- Place the desktop scanner on a sturdy, level work surface capable of supporting 57.6 kg (127 lbs) and leave adequate clearance on all sides of the scanner.
- When relocating the desktop scanner, it is recommended that two people lift the scanner and use safe lifting techniques.
- Do not install the scanner in a location subject to dust, humidity or steam. This may cause electrical shock or a fire. Only use the scanner indoors in a dry location.
- Make sure the electrical power outlet is located within 1.52 meters (5 feet) of the scanner and is easily accessible.
- When disconnecting equipment from the electric socket, be sure to grasp the plug, not the cord.
- Be sure the power cord is securely plugged into the wall outlet.
- Do not damage, knot, cut or modify the power cord or use a damaged power cord.
- The scanner requires a dedicated and properly grounded power outlet. Do not use an extension cord or power strip with the scanner.
- Leave sufficient space around the power outlet so it can be easily unplugged in case of an emergency.
- Do not use the scanner if it becomes inordinately hot, has a strange odor, emits smoke, or makes unfamiliar noises. Immediately stop the scanner and disconnect the power cord from the power outlet. Contact Service.
- Do not disassemble, service or modify the scanner except as explained in the User's Guide.
- Do not move the scanner with the power cord and interface cable attached. This may cause damage to the cord/cable. Remove the power cord from the wall outlet before moving or relocating the scanner.
- Follow the Kodak recommended cleaning procedures. Do not use air, liquid or gas spray cleaners. These cleaners displace dust, dirt and debris to other locations within the scanner, which may cause the scanner to malfunction.
- Material Safety Data Sheets (MSDS) for chemical products are available on the Kodak website at: www.kodakalaris.com/go/msds. When accessing the MSDSs from the website, you will be required to provide the catalog number or keyword of the consumable you want the Material Safety Data Sheet for. See the section entitled, "Supplies and consumables" later in this guide for supplies and catalog numbers.
- This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces, this device must not be placed in the direct field of view.
- Users and their employers need to observe the common sense precautions applicable to the operation of any machinery. These include, but are not limited to, the following:
- Do not wear loose clothing, unbuttoned sleeves, etc.
- Do not wear loose jewelry, bracelets, bulky rings, long necklaces, etc.
- Hair length should be kept short, using a hair net if needed, or tying long hair up in a bundle.
- Remove all other loose objects from the area that could be drawn into the machine.
- Take sufficient breaks to maintain mental alertness.
- Use only the recommended cleaning supplies.
- Do not use canned/compressed air.

Supervisors should review their employee practices and make compliance with these precautions a part of the job description for operation of the scanner or any mechanical device.

Warning labels



CAUTION: Moving parts, avoid contact.



CAUTION: Hot surface, avoid contact.

Environmental information

- The *Kodak* i5000 Series Scanners are designed to meet worldwide environmental requirements.
- Guidelines are available for the disposal of consumable items that are replaced during maintenance or service; follow local regulations or contact Kodak locally for more information.
- For recycling or reuse information, contact your local authorities, or in the USA, go to: www.kodakalaris.com/go/scannerrecycling.
- The product packaging is recyclable.
- *Kodak* i5000 Series Scanners are Energy Star compliant and shipped from the factory with the default time set to 15 minutes.

Battery Information

This product contains a battery that is not user-serviceable. This battery can only be removed or replaced by a qualified Service Engineer.

European Union



This symbol indicates that when the last user wishes to discard this product, it must be sent to appropriate facilities for recovery and recycling. Please contact your local Kodak representative or refer to www.kodakalaris.com/go/recycle for additional information on the collection and recovery programs available for this product.

Please consult www.kodakalaris.com/go/REACH for information about the presence of substances included on the candidate list according to article 59(1) of Regulation (EC) No. 1907/2006 (REACH).

Acoustic emission

Maschinenlärminformationsverordnung – 3, GSGV
Der arbeitsplatzbezogene Emissionswert beträgt <70 dB(A).

[Machine Noise Information Ordinance — 3, GSGV
The operator-position noise emission value is <70 dB(A).]

EMC statements - for *Kodak* i5200/i5600/i5200V/i5600V Scanners

United States: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio 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 additional suggestions.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation.

Korea: As this equipment has obtained EMC registration for household use, it can be used in an area including residential areas.

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Japan: This is a Class B product based on the standard of the Voluntary Control Council for interference by information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

EMC statements - for the *Kodak* i5800/i5850 Scanner

United States: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

European Union: WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Japan: This is a Class A product based on the standard of the Voluntary Control Council for interference by information Technology Equipment (VCCI). If this is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＡ情報技術装置です。この装置を家庭環境で使用すると電波障害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Taiwan: WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時
可能會照造成射頻干擾，在這種情況下，使用者
會被要求採取某些適當的對策。

Peoples Republic of China: WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

声明，该产

此为A级产品，在生活环境中品可能会造成无线电干扰。在这种情况下，可能需要
用户对其干扰采取切实可行的措施

Korea: Please note that this equipment has obtained EMC registration for commercial use. In the event that it has been mistakenly sold or purchased, please exchange it for equipment certified for home use.

이 기기는 업무용으로 전자파적합등록을 한 기기이오니 판매자

또는 사용자는 이점을 주의하시기 바라며, 만약 잘못 판매 또는

구입하였을 때에는 가정용으로 교환하시기 바랍니다.

1 Overview

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The *Kodak* i5000 Series Scanners include the following models:



***Kodak* i5200 Scanner** — desktop duplex color scanner that scans up to 140 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation) A4 size documents with *Kodak* Perfect Page technology.

***Kodak* i5600 Scanner** — desktop duplex color scanner that scans up to 170 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation) A4 size documents with *Kodak* Perfect Page technology.

***Kodak* i5200V Scanner** — desktop duplex color scanner that scans up to 140 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation) A4 size documents, with Kofax VRS® Professional with built-in CGA hardware.

***Kodak* i5600V Scanner** — desktop duplex color scanner that scans up to 170 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation) A4 size documents, with Kofax VRS® Professional with built-in CGA hardware.

***Kodak* i5800/i5850 Scanner** — floor-standing duplex color scanner that scans up to 210 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation) A4 size documents with *Kodak* Perfect Page technology.

The *Kodak* i5850 Scanner includes document protection, rear printing and indexing.



VRS is a registered trademark of Kofax.

This User's Guide provides information and procedures for using and maintaining the *Kodak* i5000 Series Scanners. The information in this guide is for use with all models unless otherwise noted.

NOTES:

- Most of the illustrations in this guide show the *Kodak* i5200/i5600 Scanner.
- *Kodak* i5200V/i5600V Scanners are intended to work with Kofax VRS enabled applications. *Kodak* Perfect Page technology is not supported on these models.

Supporting documentation

In addition to this User's Guide, the following documentation is also available:

- **Installation Guide** — provides a step-by-step procedure for installing the scanner.
- **Scanning Setup Guides** — the TWAIN Datasource and ISIS Driver are included with the *Kodak* i5000 Series Scanners. VRS is included with the *Kodak* i5200V/i5600V Scanners only. Each Scanning Setup Guide explains how to use basic image processing features. All Scanning Setup Guides are provided on the Installation CD/DVD in PDF format and are also available to download from the website: www.kodakalaris.com/go/scanners.
- **Reference Guide** — provides easy visual steps for cleaning your scanner. Keep this guide close to the scanner so you can use it as an easy reference.

Accessories

***Kodak* Enhanced Printer Accessory (Front and Rear)** — provides an effective way to apply information to the scanned document. It operates at full scanner speed. The printer can add a date, time, document sequential counter and custom messages. See *Chapter 4, Document Printing* for more information. CAT No. 121 3743

NOTE: Rear printing is only available with the *Kodak* i5850 Scanner.

***Kodak* Manual Feed Shelf** — when the need arises to manually feed documents, the Manual Feed Shelf provides a flat work surface to aid in single-sheet feeding. The Manual Feed Shelf can be easily installed and removed. The *Kodak* Manual Feed Shelf comes with the shelf and two side guides which can be adjusted to the desired position for scanning.

- For i5200/i5600/i5200V/i5600V Scanners: CAT No. 167 3953
- For i5800/i5850 Scanners: CAT No. 169 4256

Document Extenders — document extenders are available for scanning documents longer than 43.2 cm (17 inches). These extenders are available in 66.04 cm, 76.2 cm and 86.36 cm (26-, 30-, and 34-inch) lengths. See "Supplies and Consumables" in Chapter 7 for catalog numbers.

***Kodak* Feeder Kit for Ultralightweight Paper** — allows you to feed lightweight paper from a paper weight range of 25 g/m^2 to 80 g/m^2 (7 to 20 lbs). The *Kodak* Feeder Kit for Ultralightweight Paper includes a feed module and separation roller that are specially designed to feed lightweight paper through the scanner transport. CAT No. 844 5280

***Kodak* Dual Controlled Stacking Accessory** — allows physical stacking of the scanned documents, based on size or the presence of a patch code on a document. It also chooses the stacking location of a document that is triggered by a multifeed event. CAT No. 150 9546

What's in the box

Before you begin open the box and check the contents:

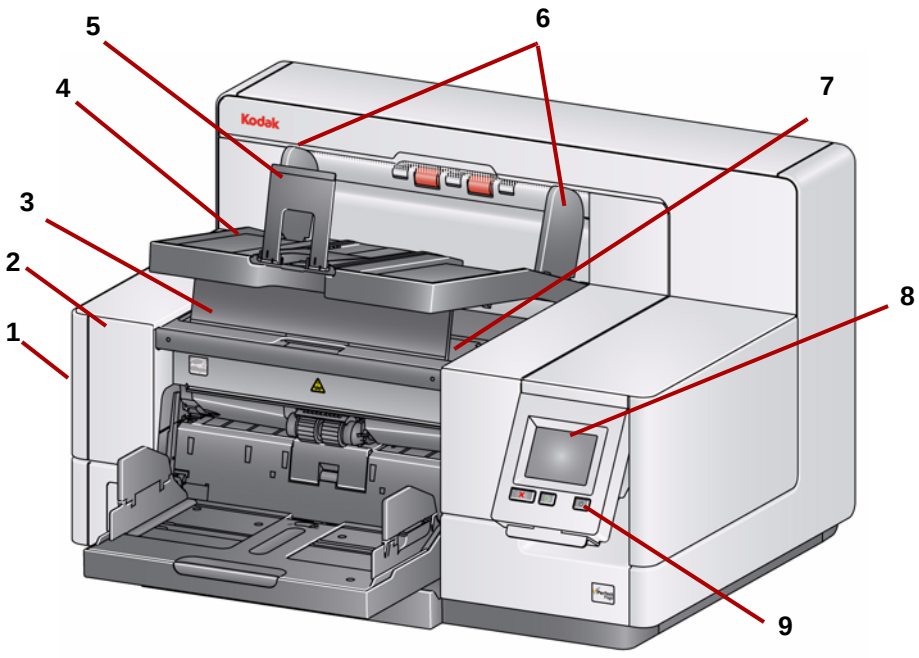
Kodak i5200, i5600, i5200V or i5600V Scanner

- Output tray
- Short document adapter
- USB cable
- AC power cord bundle
- Replacement tires and pre-separation pads
- Welcome Folio which includes:
  - Installation CD/DVD
  - Application CDs/DVD
  - Printed User's Guide, English
  - Printed Reference Guide (multi-languages)
  - Printed Installation Guide
  - Sample Cleaning Kit
  - Miscellaneous flyers/Safety sheets

NOTE: The purchase of a *Kodak* i5800/i5850 Scanners include unpacking and installation by a Service Representative. Customers should not unpack/install the *Kodak* i5800/i5850 Scanner. For more information regarding installation of the i5800/i5850 Scanner, go to: www.kodakalaris.com/go/dicontacts.

Scanner components

Front view: all models



1 **Scanner cover release latch** (not shown in this illustration) — located on the left side of the scanner; pull the lever forward to open the scanner cover.

2 **Scanner cover** — provides access to the internal components.

3 **Output tray height adjustment tab** — this tab should be pulled out to raise the front of the output tray when scanning for improved document stacking. When the output tray is lifted, this tab automatically releases and rests on the printer access cover.

4 **Output tray** — collects the scanned documents.

5 **Document stop** — aids in document stacking. You can slide this stop in or out to accommodate the size of documents you are scanning or it can be folded flat on the output tray.

6 **Output tray side guides** — can be moved in and out to accommodate document size or folded flat on the output tray.

7 **Front printer access cover** — (located underneath the output tray) lift this cover to access the feed module release knob and the optional Enhanced Printer for changing printer positions and maintenance. The scanner serial number and K number are also located in this area.

8 **Touchscreen/Operator Control Panel** — a variety of functions can be performed using the touchscreen. See Chapter 3 for procedures on using these functions.

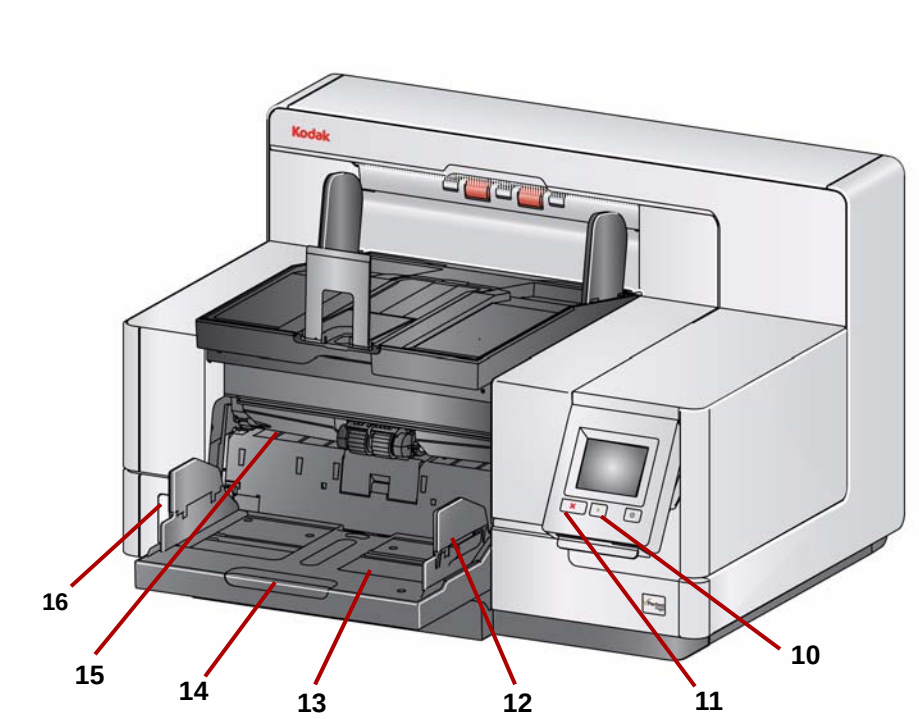
9 **Power button** — press to turn the scanner on or press and hold for two seconds to put the scanner into low power mode.

10 **Start/Resume button** — press to start or resume scanning.

11 **Stop/Pause button** — press once to temporarily pause scanning (the Start/Resume button can then be used to resume scanning). Press twice to stop scanning.

12 **Input Elevator side guides** — slide the guides in or out to accommodate the document size you want to scan. Side guides can be left-, center- and right-adjusted to accommodate documents of various widths. The side guides can also be locked into position.

Fold the side guides down when you want to close the input elevator when the scanner is not in use.



13 **Input Elevator** — holds up to 750 documents (20 lb./80 g/m^2) in place. The input elevator can be set to accommodate stacks of 25, 100, 250, 500 or 750 documents. The input elevator can be folded up when it is not in use.

14 **Input Elevator extender** — pull this extender out to accommodate documents longer than 35.6 cm (14 inches).

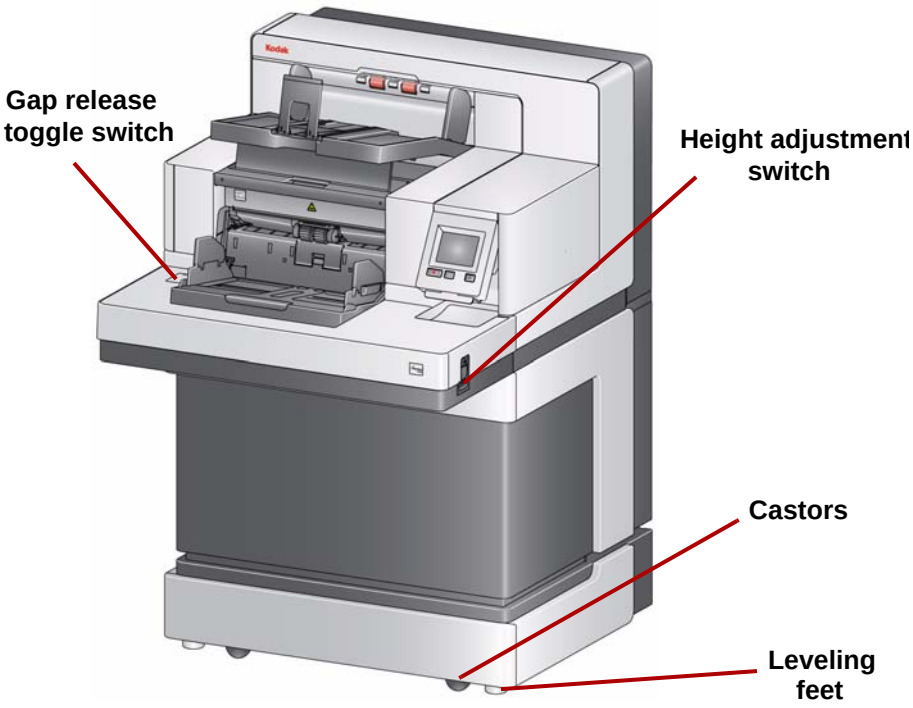
15 **Front print location indicators** — if you are using the Enhanced Printer Accessory, use the detents at the edge of the input elevator as a visual guide to see where the printing position will be on the document.

16 **Gap release toggle switch** (i5200/i5600/i5200V/i5600V Scanners) — push the "**+**" button to increase the space between the feed module and separation roller for documents that require special handling.

NOTE: The gap release toggle switch is located in a different position on the i5800/i5850 Scanners. See the next section, "Front view: i5800/i5850 Scanners" for more information.

Front view: i5800/i5850 Scanners

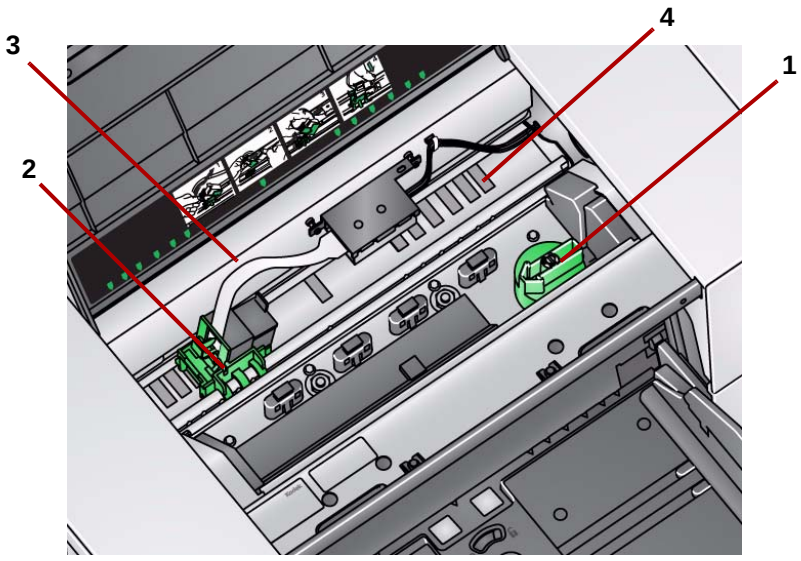
In addition to the components listed previously, the *Kodak* i5800/i5850 Scanners also have a workspace height adjustment switch which is used to raise and lower the workspace table on the scanner. The workspace table can be raised or lowered approximately 10 inches up or down.



There are four castors and four leveling feet on the bottom of the scanner. If you need to move the scanner, the leveling feet must be raised. Contact your Service Representative before attempting to relocate the scanner.

Front printer access view: all models

Even if you do not have the *Kodak* Enhanced Printer Accessory, you will still need to access this area of the scanner. The feed module release knob is located in this area.



1 **Feed module release knob** — turn this knob to release the feed module from it's position for cleaning or replacement. Turn the arrow to right to disengage the feed module.

The following components are for front printing and are only present if the Enhanced Printer Accessory is installed.

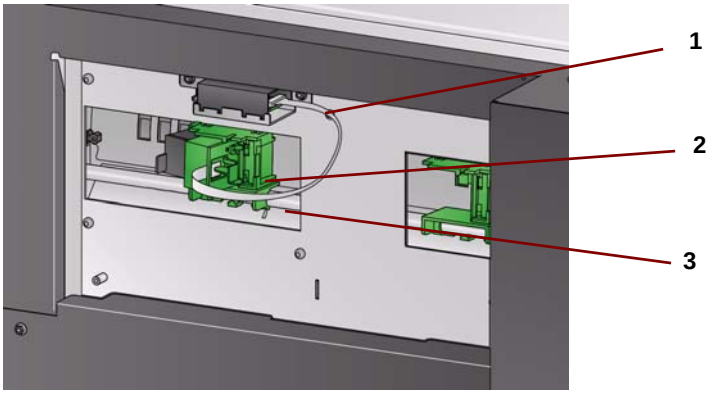
2 **Enhanced Printer carrier/cartridge** — allows printing on documents.

3 **Printer cable** — this cable connects directly to the printer carrier to allow communication to the Enhanced Printer.

4 **Print positions** — the i5000 Series Scanners allow front printing on your documents. Up to 39 positions are available when using the front printer.

Rear printer access view: i5850 Scanner only

The following components are for rear printing and are only present if the Enhanced Printer Accessory is installed.



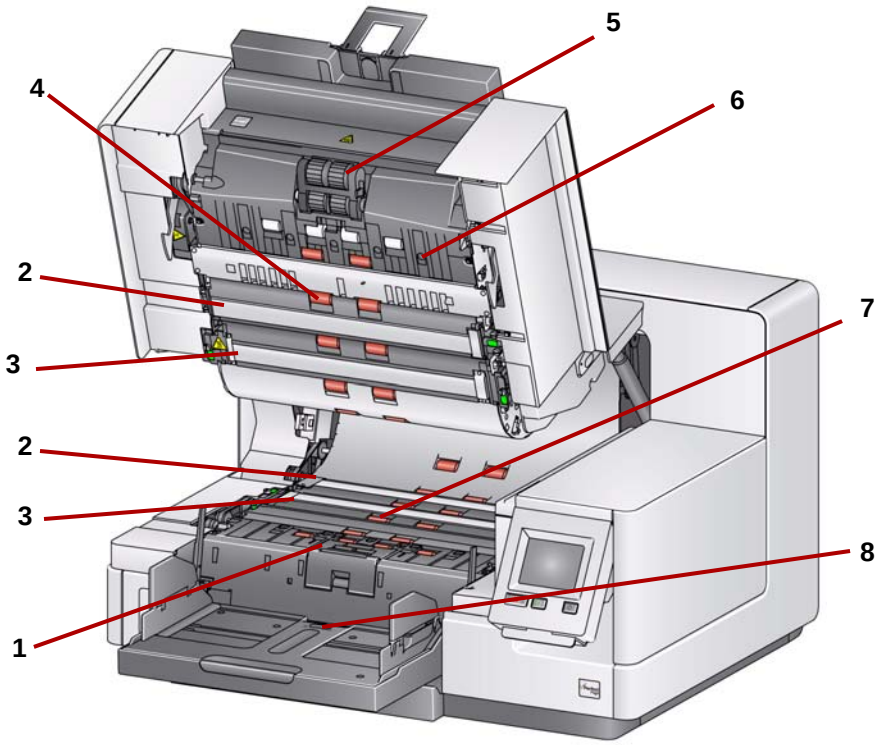
1 **Printer cable** — this cable connects directly to the printer carrier to allow communication to the Enhanced Printer.

2 **Enhanced Printer carrier/cartridge** — allows printing on documents.

3 **Print positions** (*located on the underside of the rail*) — the i5850 Scanner has the capability of front and rear printing. Up to 24 print positions are available when using the rear printer. Only one printer (front or rear) can be used at a time.

Inside view: all models

When you pull the scanner cover release latch forward to open the scanner cover, the following internal components are visible.



1 **Separation roller and pad** — provides smooth document feeding and separation of various sizes, thicknesses and textures of documents.

2 **Black/White background** — using your scanning application, this background can be changed to White or Black. Under normal scanning conditions you would use the black background. If you are scanning lightweight or thin paper with printing on one side, you can use the white background to help eliminate bleed-through in the final image. See the *Scanning Setup Guides for TWAIN and ISIS* for more information.

NOTE: VRS does not support scanning with a white background.

3 **Imaging guides** — keep imaging guides clean to obtain optimum image quality.

4 **Rollers** — provides smooth transport of documents through the scanner.

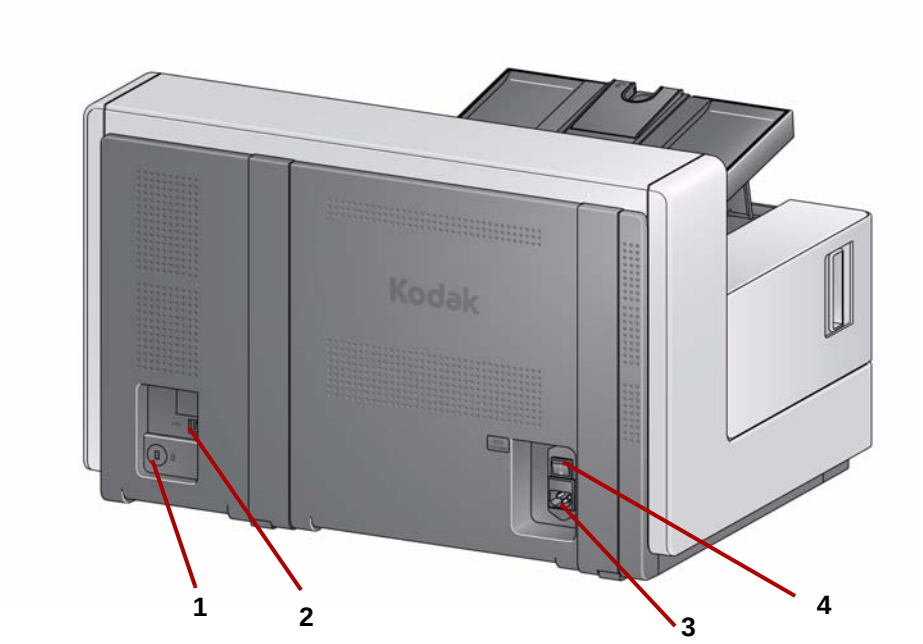
5 **Feed module** — provides smooth document feeding and separation of various sizes, thicknesses and textures of documents.

6 **Sensors** — these five ultrasonic sensors cover the width of the paper path which aid in detecting multifed documents.

7 **Ink blotter channels and ink blotters** (located underneath the drainage strip) — the ink blotters which are placed in these channels, collect ink residue from the optional Enhanced Printer Accessory.

8 **Paper present sensor** — detects the presence of documents in the input elevator. Documents must be covering this sensor in order for the scanner to begin scanning.

Rear view: i5200/i5600/ i5200V/i5600V Scanners



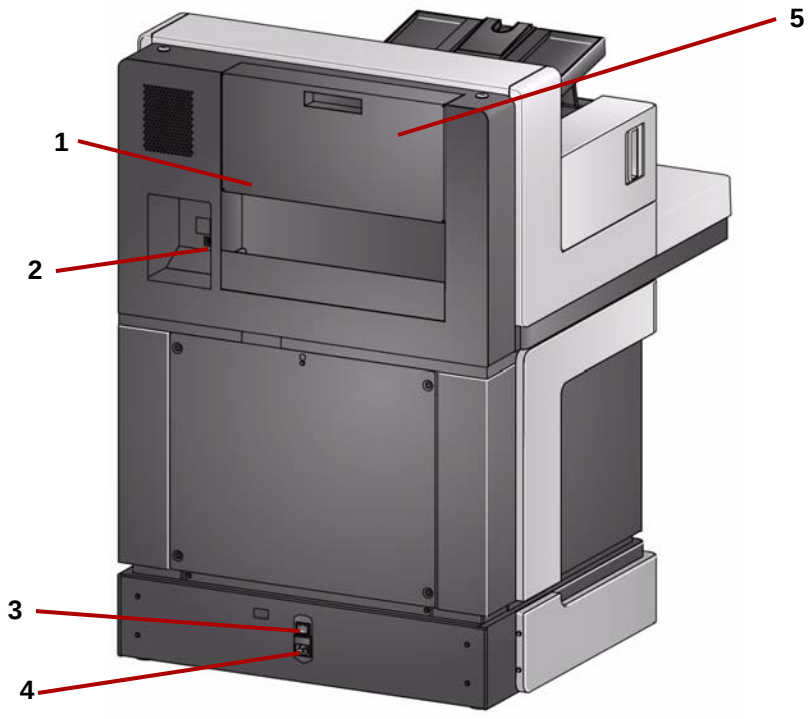
1 **Security lock port** — connects a security lock to the scanner. You can purchase a standard security lock at an office supply store. Refer to the instructions provided with the security lock for installation procedures.

2 **USB port** — connects the scanner to the PC.

3 **Power port** — connects the power cord to the scanner.

4 **Main power switch** — this switch must be **On** (I) to activate the power to the scanner.

Rear view: i5800/i5850 Scanners



1 **Storage pocket** — provides a convenient and easy-access area for storing consumables and documentation.

2 **USB port** — connects the scanner to the PC.

3 **Main power switch** — this switch must be **On** (I) to activate the power to the scanner.

4 **Power port** — connects the power cord to the scanner.

5 **Rear printer access door** — provides access to the rear printer (i5850 Scanners only).

2 Installation

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If desired, Kodak Professional Services provides professional installation and user training. Contact your local Service Representative for more details at www.kodakalaris.com/go/disupport.

The following installation procedures are for the *Kodak* i5200/i5600/i5200V/ i5600V Scanners. Installation by a Service Representative is included with the purchase of a *Kodak* i5800/i5850 Scanner.

Installing the scanner

This section provides detailed information supporting the *Installation Guide* that is provided with your scanner. Follow these steps in the order they are provided to install your scanner.

NOTES:

- Before you begin, verify that your host PC meets the system requirements that are provided in *Appendix A, Specifications.*
- If you have already performed all of the steps in the *Installation Guide*, skip this section.
- Updated drivers may be available at www.kodakalaris.com/go/scanners.

Installing the *Kodak* Driver Software

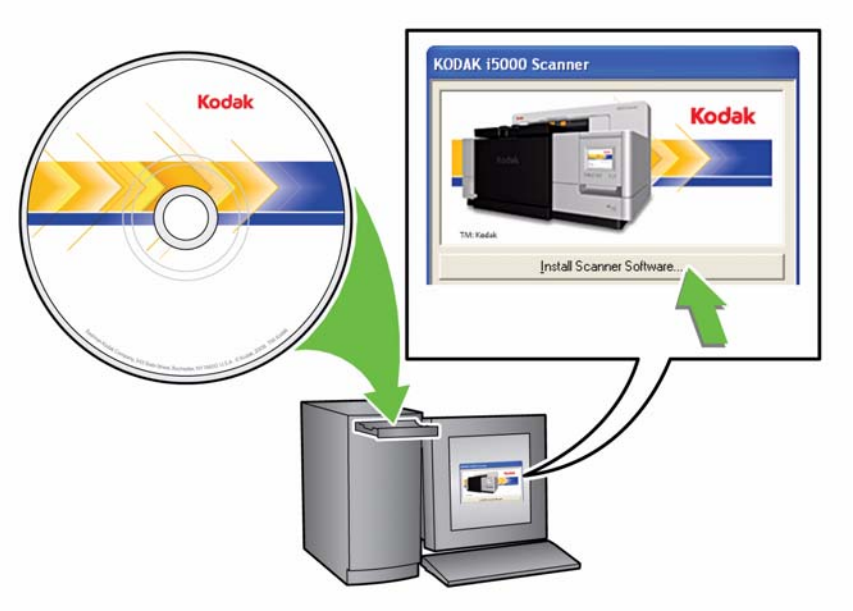
Do not install the USB cable before installing the *Kodak* Driver Software.

NOTE: If you are installing a *Kodak* i5200/i5600 Scanner, the TWAIN Datasource, ISIS Driver and Scan Validation Tool will be installed.

If you are installing a *Kodak* i5200V/ i5600V Scanner, VRS, the TWAIN Datasource and Scan Validation Tool will be installed.

1. Insert the *Kodak* i5000 or i5000V Series Scanners Installation CD/DVD in the CD-ROM drive. The installation program starts automatically.

2. Select **Install Scanner Software.**



NOTES:

- If the CD/DVD does not start automatically, open the My Computer icon on your desktop. Double-click the icon indicating your CD-ROM drive, then double-click on **setup.exe**.
- If the message, ***Portions of this application are already installed*** is displayed, click **Yes** to continue the installation process. Any previously installed *Kodak* Scanner software that is shared with this scanner will be updated.

3. Click **Next** when the Welcome screen is displayed and follow the prompts on the screen.

   NOTE: If you are installing VRS, you will be asked to read and agree to the VRS Software License Agreement the first time the VRS software is run.

4. Click **Finish** when the installation is complete.
5. Remove the Installation CD/DVD from the CD-ROM drive.

Attaching the output tray

When you unpack the *Kodak* i5000 Series Scanner, the output tray is packed in a separate box.

- Locate the output tray slots on the scanner. Angle the output tray and align the output tray with the slots, snap it into place and lower it into position.

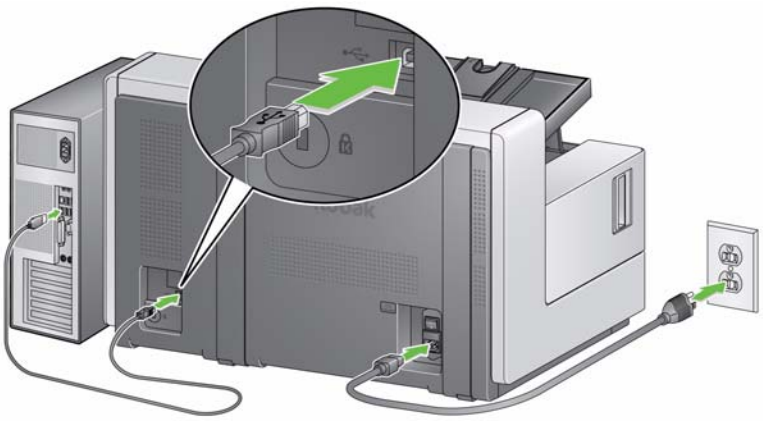


NOTE: Be sure to lift the output tray up to the scanning position before feeding documents. See the section entitled, “Adjusting the output tray” in Chapter 3.

Connecting the power cord and USB cable: i5200/i5600/ i5200V/i5600V Scanners

After the drivers have been installed, connect the power cord and USB cable to the scanner. Refer to the illustration below for making proper connections. Make sure the power outlet is located within 1.52 meters (5 feet) of the scanner and is easily accessible.

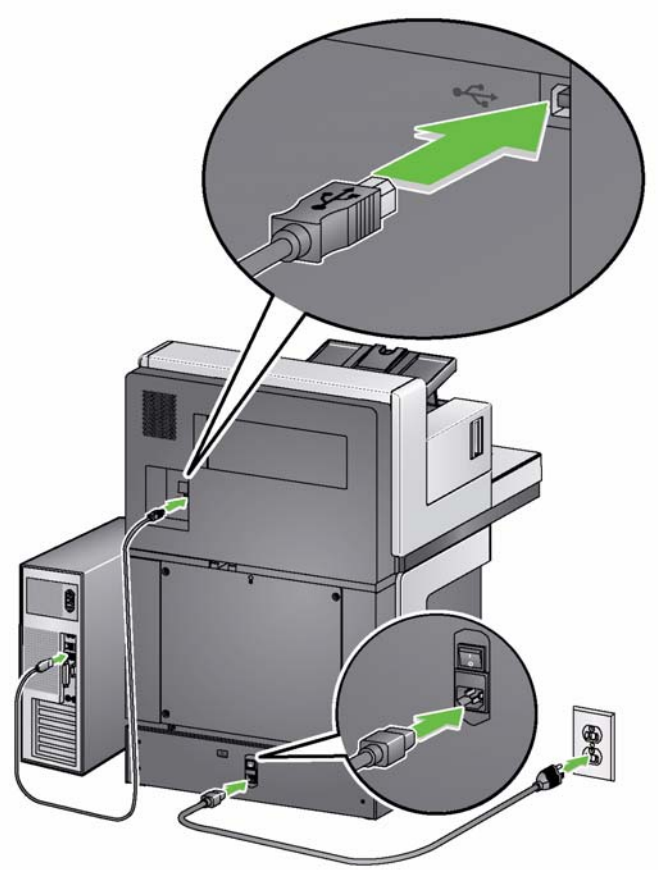
1. Select the appropriate AC power cord for your region from the supply of power cords packed with your scanner.
2. Plug the output power cord into the power port on the scanner. Be sure it is securely attached.
3. Plug the other end of the power cord into the wall outlet.
4. Attach the USB cable to the scanner USB port.
5. Attach the other end of the USB cable to the proper USB port on your PC.



Connecting the power cord and USB cable: i5800/i5850 Scanner

After the drivers have been installed, connect the power cord and USB cable to the scanner. Refer to the illustration below for making proper connections. Make sure the power outlet is located within 1.52 meters (5 feet) of the scanner and is easily accessible.

1. Select the appropriate AC power cord for your region from the supply of power cords packed with your scanner.
2. Plug the output power cord into the power port on the scanner. Be sure it is securely attached.

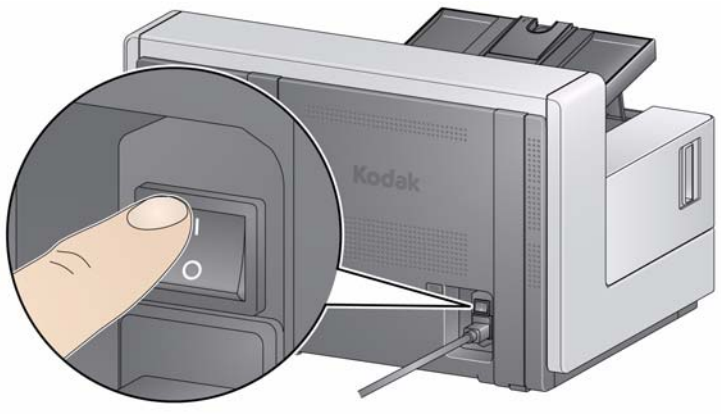


3. Plug the other end of the power cord into the wall outlet.
4. Attach the USB cable to the scanner USB port.
5. Attach the other end of the USB cable to the proper USB port on your PC.

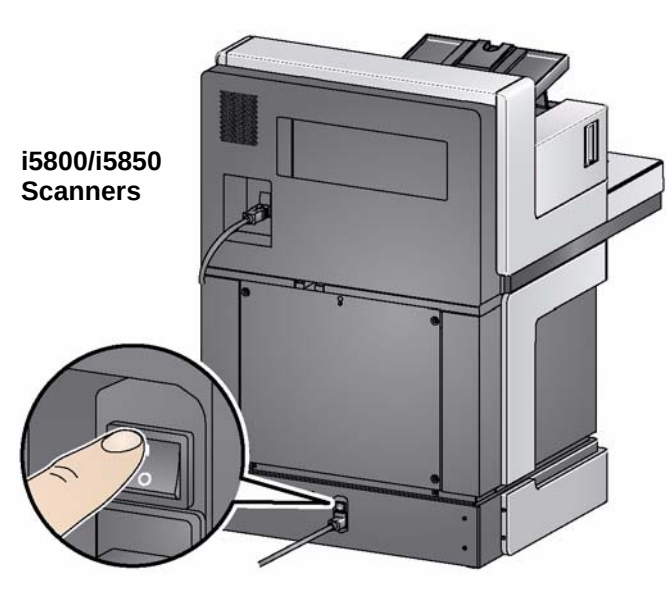
Turning the scanner on

1. Press the main power switch on the back of the scanner to the **On** (I) position. The LED on the front of the scanner will be a steady yellow and nothing will be displayed on the Operator Control Panel (this is low power mode).

   NOTE: If there is paper in the input elevator, the scanner will automatically go to the **Ready** mode.



i5200/i5600
i5200V/i5600V
Scanners



i5800/i5850
Scanners

NOTES:

- It is not necessary to turn the main power switch off unless you are not going to use the scanner for a prolonged period of time, you are performing maintenance, you are going to move the scanner or are directed to turn the power off by Technical Support.
- **For the *Kodak* i5800/i5850 Scanner only**: There are four leveling feet on the bottom of the scanner. If you need to move the scanner, these leveling feet must be raised. Contact Technical Support before attempting to relocate the scanner.
- Damages incurred when moving a scanner will not be covered by the Equipment Service Agreement. Kodak Professional Services provide relocation services. Go to www.kodakalaris.com/go/dicontacts for more information.

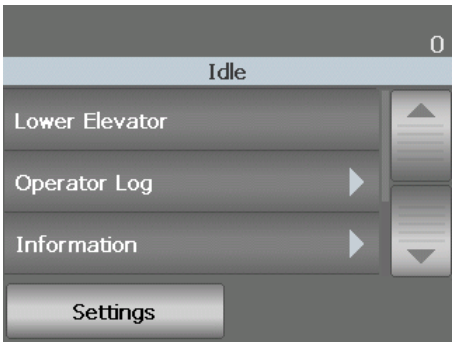
2. Press the **Power** button on the front of the scanner. The Power button LED will temporarily go off and the Operator Control Panel will remain blank.



After a few seconds the initialization screen will be displayed, and the Power LED will be a steady yellow.



During the initialization process, if the scanner input elevator is closed, it will automatically open. When the scanner goes to the **Ready** mode, the Power LED will turn a steady green, the scanner will sound an alert and the Idle screen will be displayed.



Power modes

The following chart provides information regarding the power modes of the scanner, LED status and the manual or automatic action that will put the scanner into a given power mode.

Mode	LED	Power consumption	Manual Action	Automatic Action
Scanner off	Off	0 watts	Turn the power switch on the back of the scanner to the Off position (O).	None
Standby	Steady yellow	< 1 watt	This is the mode the scanner is in when the power is first turned on (the power switch on the back of the scanner is in the On position [I]). The scanner goes from **Low Power** mode to **Standby** mode by pressing the **Power** button for more than 2 seconds.	
Low Power	Flashing yellow	< 4 watts	The scanner goes from **Ready** mode to **Low Power** mode by pressing the **Power** button for more than 2 seconds.	
Ready	Steady green	<115 watts not scanning (all models) < 215 watts scanning (i5200/i5600) <250 watts scanning (i5800/i5850) <350 watts scanning and lift operation (i5800/i5850)	The scanner goes from **Standby** mode to **Ready** mode by: • Pressing the **Power** button, or • placing paper in the input elevator. The scanner goes from **Low Power** mode to **Ready** mode by: • Pressing the **Power** button, or • placing paper in the input elevator, or • pressing the **Start/Resume** button, or • receiving a host command.	None

3 Scanning

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Getting your scanner ready to scan

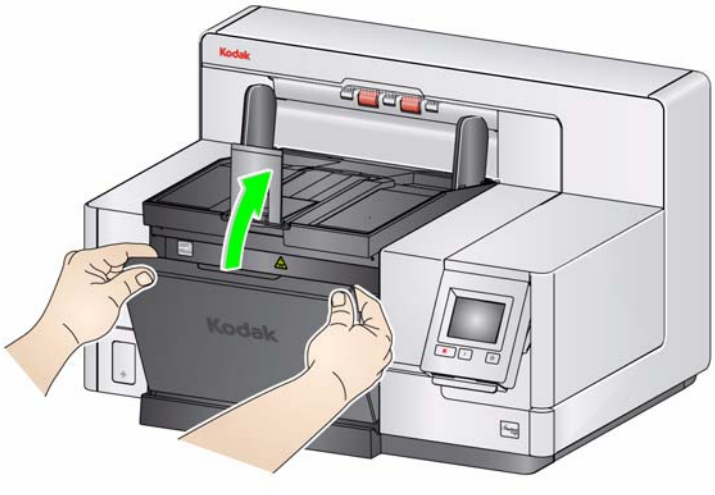
1. Be sure the scanner is on and in **Ready** mode (Power button LED is green and constant).
2. Adjust the input elevator to meet your scanning needs. See the next section entitled, “Adjusting the input elevator” for more information.
3. Adjust the output tray to meet your scanning needs. See the section entitled, “Adjusting the output tray” later in this chapter.
4. Select your scanning application.

NOTE: The illustrations in this section show the i5200/i5600/i5200V/i5600V Scanner. All adjustments are the same for the i5800/i5850 Scanners unless otherwise noted.

Adjusting the input elevator

You can adjust the side guides and input elevator height to accommodate your scanning needs. When the scanner is not in use, the input elevator can be folded up against the scanner.

NOTE: The input elevator must be in the lowest position and the elevator side guides must be folded down before closing it.

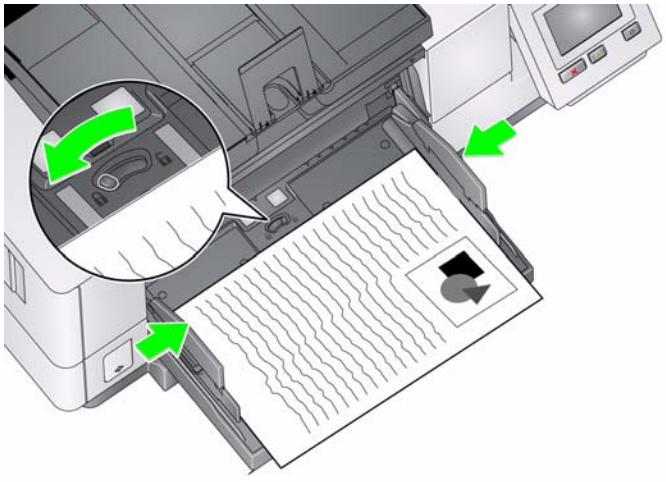


- **Adjusting the side guides** — the side guides can be adjusted for right-edge, left-edge or center feeding. The side guides can be moved together for center feeding or independently for offset feeding (right-edge or left-edge). Before moving the side guides, be sure the locking switch is not in the **locked** position (see below).

  NOTE: When using the optional Enhanced Printer, documents should be placed in the input elevator in a manner that will align the print string in the proper location. See Chapter 4, *Document Printing* for more information.

- **Locking the side guides** — side guides may be locked into position after they are adjusted. This is helpful when the placement of a print string is important.

  To lock the side guides remove any documents from the input elevator and move the lock switch to the left (the locked position).

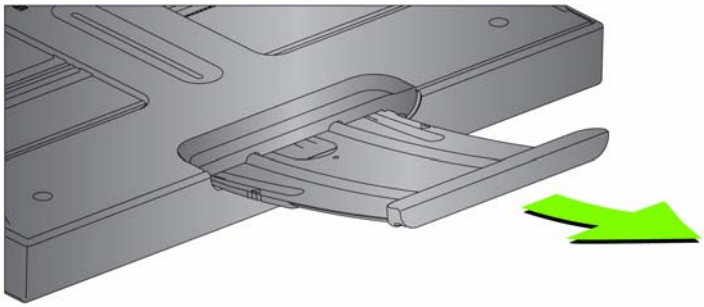


- **Adjusting the height of the input elevator** — the input elevator can be set to accommodate stacks of 25 or less, 100, 250, 500 or 750 documents of 20 lb./80 g/m^2 bond paper. Input elevator settings are made through your scanning application software (i.e., TWAIN Datasource, ISIS Driver or VRS).

  If the input elevator is set to **ADF** mode (using the TWAIN Datasource or the ISIS Driver), or the *Feed Source* is set to **Manual** (VRS), then the input elevator will remain in the up position (i.e., 25 documents or less). When set to more than 25, the input elevator will automatically raise to feed documents and lower after the last document in your stack has been fed.

- **Adjusting the input elevator**

  - **Document lengths up to 35.6 cm (14 inches)** — no adjustments are required.
  - **Document lengths from 35.6 to 43.2 cm (14 to 17 inches)** — slowly pull out the document extender.



  - To push the extender back into place, position your fingers on the sides of the extender (at the arrows on the extender) and squeeze and slide the extender back into place.

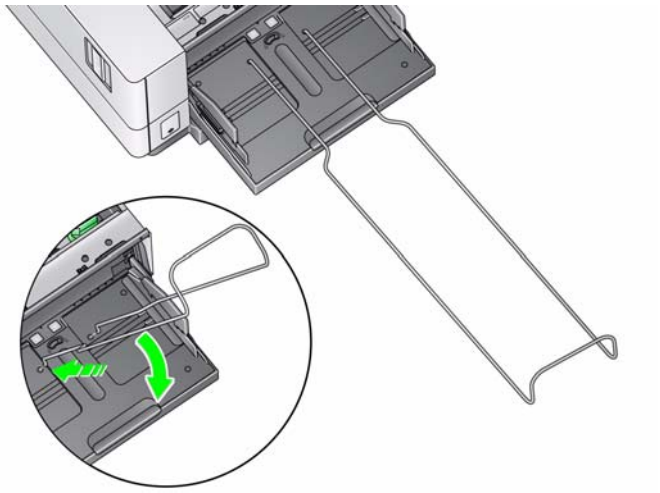
  NOTES:

  - Operator assistance may be required for scanning documents greater than 43.2 cm (17 inches).
  - If you are scanning documents longer than 43.2 cm (17 inches), the scanning application **must** be set to accommodate these long documents. Be sure to verify that the **Maximum Length** option on the Device-General tab (TWAIN Datasource) or the **Longest Document** option on the Scanner tab (ISIS Driver) is set to slightly longer than the longest document being scanned. Setting a length longer than needed may impact throughput.
  - **For i5200V and i5600V Scanners**: these scanners have a set maximum *Document Length* of 40 inches; therefore, no adjustment is necessary.
  - It is recommended that you use a document extender if you are scanning documents longer than 43.2 cm (17 inches). Three sizes of document extenders are available for scanning documents from 43.2 cm (17 inches) to 86.36 cm (34 inches). See the section entitled, “Supplies and Consumables” in Chapter 7 for ordering information.

  - **Document weights** — the maximum document weight for the input elevator is the approximate weight of a 500-sheet ream of A3 (11 x 17-inch) paper or a 750-sheet ream of A4 (8.5 x 11) paper. If you are scanning documents larger than A3 (11 x 17-inch), the recommended weight capacity should not exceed 4.5 kg (10 pounds). If the documents you are scanning are larger than A3 (11 x 17-inch), scan less than 100 sheets at a time.

Installing the optional document extender

- Insert the ends of the document extender into the holes on the input elevator and the output tray and lower the extender into position.



Adjusting the output tray

Various document handling settings are available to adjust the way that documents are placed into the output tray (via the TWAIN Datasource, ISIS Driver or VRS). The highest throughput can be obtained by scanning documents of similar size using the output tray side guides and end stop with **Normal** document handling.

Other document handling options are available for better handling when scanning documents of varying size and thickness.

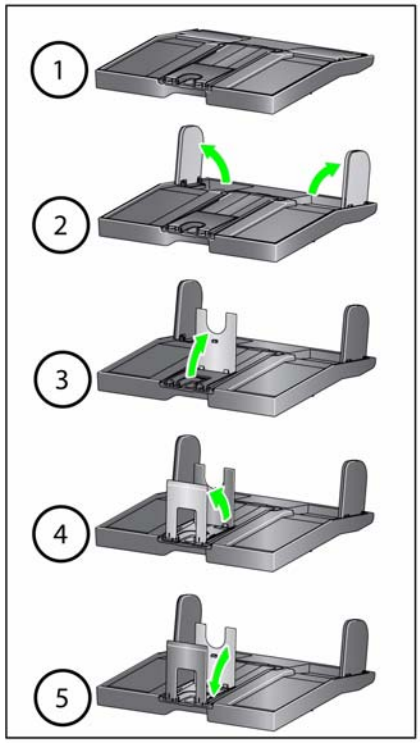
- **Adjusting the angle of the output tray** — it is strongly recommended that you scan documents with the angle of the output tray in the “up” position to achieve best stacking performance. Just lift the front of the output tray and the height adjustment tab will release from underneath the output tray.



To lower the output tray, gently push the height adjustment tab underneath the output tray while lowering the output tray on to the front printer access cover.

- **Adjusting the side guides and document stop** — the side guides and document stop can be adjusted in a variety of ways. Open and adjust the side guides on the output tray to match the position of the side guides on the input elevator. The side guides can also be folded flat against the output tray.

  Adjust the output tray document stop to slightly longer than the longest document being fed. If you are scanning documents longer than the output tray will accommodate, fold the document stop flat on the output tray.

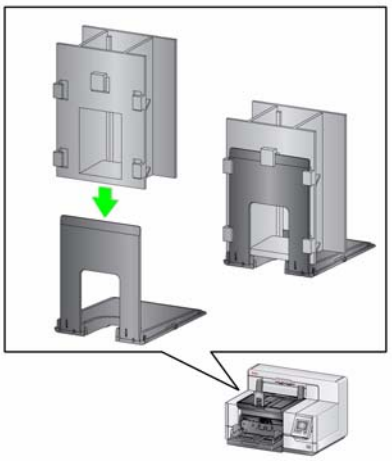




Installing the short document adapter

The short document adapter can be used when scanning small documents (e.g., checks). This adapter aids in better document stacking.

1. Open the document stop on the output tray as shown in the illustration.
2. Slide the short document adapter over the document stop and push it all the way down.

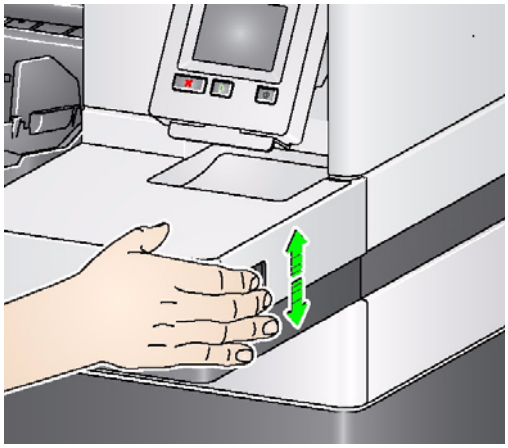


3. Adjust the sides guides if necessary.

Adjusting the height of the scanner (i5800/i5850 Scanners only)

The workspace table can be raised approximately 25.4 cm (10 in.) from its lowest position for your comfort when you are sitting or standing at the scanner. When you are raising or lowering the workspace table, be sure that there is nothing close to the scanner that would interfere with the upward and downward movement (e.g., chair, table, etc.).

- Press the upper portion of the button on the side of the scanner to raise to workspace table.



- Press the lower portion of the button on the side of the scanner to lower the workspace table.

If the workspace table will not move up or down from its position, check the following:

- Be sure the workspace table is not already in its highest or lowest position.
- Be sure the scanner is on and is not in Low Power mode.

Getting your documents ready to scan

- Standard paper-size documents feed easily through the scanner. When organizing your documents for scanning, stack the documents so the lead edges are aligned and centered in the input elevator. This allows the feeder to introduce documents into the scanner one at a time.
- Remove all staples and paper clips before scanning. Staples and paper clips on documents may damage the scanner and documents.
- All inks and correction fluids on the paper must be dry before scanning is started.
- Torn, damaged or crushed pages can be transported successfully through the scanner. However, no scanner can transport every possible type of damaged paper. If in doubt about whether a specific damaged document can be transported through the scanner, place the document in a clear protective sleeve. Sleeves should be manually fed, one at a time, folded edge first, using the gap release toggle switch.
- Some very thick and/or stiff documents; such as shipping envelopes, may require the following:
  - Use of the gap release toggle switch.
  - Removal of the pre-separation pad.
  - Use of the **Fragile**, **Thick**, **Thin** settings for Document Handling, which will reduce transport speed.

Scanning documents

The scanner must be enabled to scan documents. This is done through the scanning application. After enabling the scanner, depending on how your scanner is configured, your scanner will either automatically start scanning (i.e., auto start), or will start scanning when you touch the **Start/Resume** button on the scanner. For more information, see the documentation that supports your scanning application.

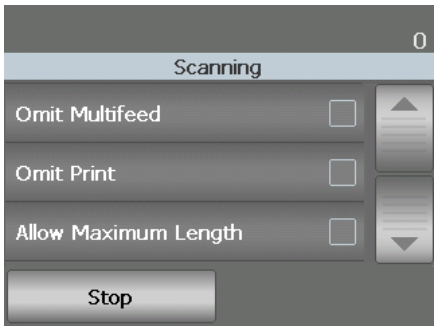
1. After you prepare your documents according to the guidelines in the previous section, be sure your scan job is set up in your scanning application as desired.
2. Place the documents you want to scan in the input elevator.
3. Start scanning via your scanning application.

   Depending on how your scanner is configured, the touchscreen will display either the Scanning screen or the Paused screen.

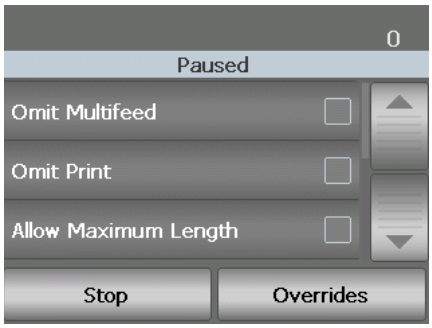
   Auto start options:
   TWAIN: Automatically start scanning
   ISIS: Automatically start transport
   VRS: **ADF** (Auto start enabled) / **Panel Feed** (Auto start disabled)

   See the *Scanning Setup Guides for TWAIN, ISIS and VRS* for more information.

This screen will be displayed if the auto start option is **enabled** in your scanning application:



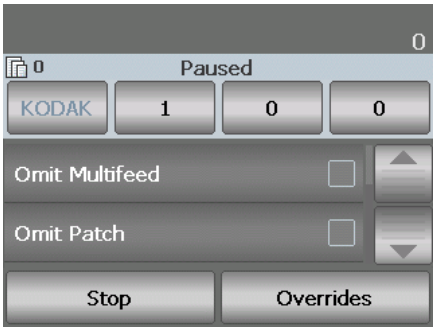
This screen will be displayed if the auto start option is **disabled** in your scanning application:



This screen will be displayed if the indexing (i5850 Scanner only) and auto start options are **enabled** in your scanning application:



This screen will be displayed if the indexing (i5850 Scanner only) and auto start options are **disabled** in your scanning application:



NOTE: If your scan job requires a temporary override (e.g., printing, patch reading, multifeed detection, etc.), then the auto start option must be disabled prior to starting your scan job to allow access to the Overrides screen.

Alternatively, pressing **Stop/Pause** while scanning will also provide access to the Overrides screen.

For more information, see the section entitled, “Scan job overrides”.

4. Touching any of the options displayed on this screen, will perform the action (e.g., Omit Printing, Omit Patch, Omit Multifeed, Allow Maximum Length, etc.) on the next document only. To perform these actions for the rest of the scan job, see the section entitled, “Scan job overrides” later in this chapter.
5. You must press the Start/Resume button to begin scanning if auto start has been disabled by the scanning application.

Pausing and resuming scanning

You can manually stop/pause and start/resume the scanner while scanning documents.

- To temporarily pause scanning, touch the **Stop**/**Pause** button on the scanner once.
- If you want to stop scanning, you can touch **Stop** on the Operator Control Panel touchscreen, or press the **Stop/Pause** button twice.
- Touch the **Start**/**Resume** on the scanner to restart scanning after it has been paused.

NOTE: During scanning the scanner monitors its own internal image buffer memory. In order to prevent overwriting images before the host computer can retrieve them, the scanner will automatically pause the feeder and will resume scanning when enough internal buffer memory is free.

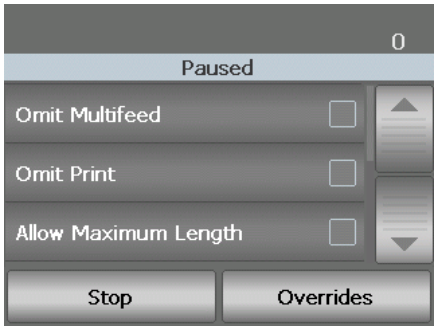
Scan job overrides

The Overrides screen allows you to temporarily override your scan job setup for Multifeed Detection, Multifeed Sensors, Printing, Print Offset, Maximum Document Length and Document Handling for the remainder of the scan job.

NOTE: **Maximum Document Length** is not available on the i5200V/i5600V Scanners.

To access the overrides screen at the start of each scan job, the auto start setting in the scanning application must be disabled. See the section entitled, “Scanning documents” earlier in this chapter for more information.

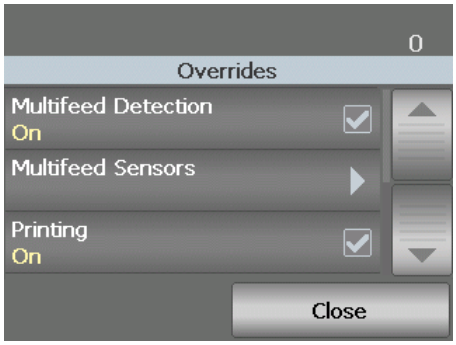
When you pause the scanner, the Overrides button is available on the touchscreen.

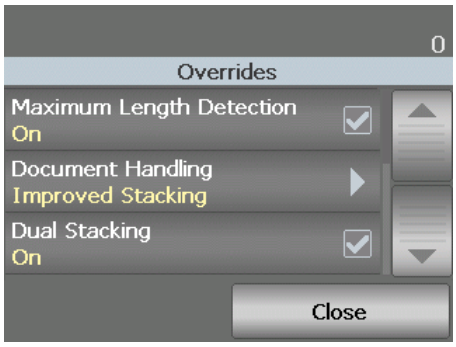


To override a setting:

1. Touch **Overrides** on the Paused screen. The Overrides screen will be displayed.

   NOTE: Use the scroll bar to show all options.





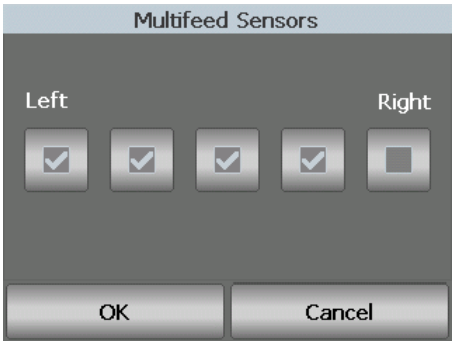
2. Touch the option that you want to override, then touch **Close** to continue scanning.

Multifeed detection

If Multifeed Detection has been enabled via the scanning application, you can turn Multifeed Detection off for the rest of the current scan job.

Multifeed sensors

If Multifeed Detection has been enabled via the scanning application, you can turn on or off any or all of the five scanner sensors. When the sensors are selected, click **OK** to close the window.



Printing

If printing or electronic annotation (VRS only) has been enabled via the scanning application, you can temporarily disable it on all remaining documents in a scan job. This may be useful if rescanning a stack of documents that have already been printed on.

Once **Printing** is disabled, no documents will be printed on (or images annotated on) until the **Printing** option is enabled.

If you want to disable printing/annotation for the first document in the scan job, then your scanning application must be set up to NOT automatically start scanning, so that this screen can be accessed and printing/annotation can be disabled before you start scanning.

Changing the print offset

The Print Offset function allows you to temporarily move the print location on a document (e.g., if you need to rescan a document that has already been printed on).

When you change the print offset position, the change will stay in effect until the scanner returns to the Idle state.

NOTES:

- The Print Offset option is only displayed on the touchscreen if the printer is enabled.
- Print Offset does not effect annotation.
- If your scanner is configured to auto start, it is recommended that you disable autostart if you want to use the Print Offset function for the first document.
- For more efficient scanning, it is recommended that you set the scanner to **Pause Scanning** (in the scanning application) when a multifeed occurs so the scanner will stay enabled.
- If you set the Print Offset to a dimension that is longer than your document, there will be no printing on your document.

1. Verify that Printing is enabled in the scanning application.

   NOTE: The number displayed on the touchscreen is the additional offset from what was set by the scanning application. This number is 0 if the print offset has not been changed.

2. Select **Print Offset**. The following screen will be displayed.



3. Use the up and down arrows to increment or decrement the print offset value (in inches or mm). The printing will be incremented/decremented from the value that is set up in the scanning application. For example, if you have printing set up to start 1 inch/25 mm from the lead edge of the document, and you increment the print offset position by 1 inch / 25 mm, printing will start at 2 inches/50 mm from the lead edge.
4. When finished, click **OK**.

Maximum document length

This option allows you to override the maximum document length that is setup in the scanning application for the scan job. The maximum document length allowed is variable and dependent on many factors including the output resolution and format.

The following chart is a guideline and assumes duplex scanning with compressed output.

Scanning DPI	Resolution = Maximum Document Length
100, 150, 200, 240, 300	Black and White = 180 inches Gray = 180 inches Color = 58 inches
400	Black and White = 100 inches Gray = 100 inches Color = 32 inches
500	Black and White = 64 inches Gray = 64 inches Color = 18 inches
600	Black and White = 43 inches Gray = 43 inches Color = 13 inches

NOTES:

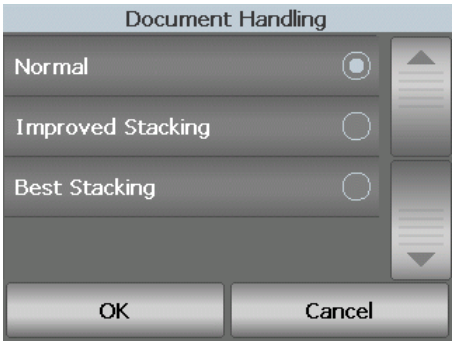
- If Controlled Dual Stacking is enabled, the default maximum document length will be set to 10 inches for all resolutions.
- For the *Kodak* i5200V and i5600V Scanners the maximum document length is always set to 40 inches and cannot be overridden.
- Setting the maximum document length longer than is needed may reduce throughput.
- Feeding a document longer than the maximum document length will result in a document jam error.

Document handling

Document handling allows you to select how the scanner transports documents through the scanner. This effects how the documents are fed into the scanner, how fast they move through the scanner, and how they are placed in the output tray.

NOTE: This option is not available when Controlled Dual Stacking is enabled.

The options displayed on this screen are based on what is set up in your scanning application for the current scan job. The options are: **Normal, Improved Stacking** and **Best Stacking,** OR **Thick, Thin** and **Fragile.**



If the scanning application has specified one of these three options: **Normal, Improved Stacking** or **Best Stacking** then only these three options will be displayed on the screen (as shown above).

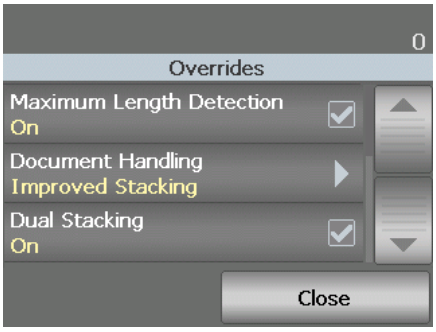
- **Normal** — no additional handling is performed. This option is best used when all documents are similar in size. It is recommended that you use the side guides and document stop when scanning in the Normal mode. Normal mode is not available if Controlled Dual Stacking is enabled.
- **Improved Stacking** — aids in controlling how the documents are stacked/ ordered in the output tray for mixed document sets. This should work for most mixed document sets.
- **Best Stacking** — when your document set contains a variety of sizes, this option provides the best control of how the documents are stacked/ordered in the output tray.

If the scanning application has specified one of these three options: **Thick, Thin** or **Fragile,** then only these three options will be displayed on the screen.

- **Thick** — select when scanning thick documents.
- **Thin** — select when scanning thin documents.
- **Fragile** — allows you to feed poor quality documents through the scanner transport at a slower pace for more reliable stacking. Select this option when you are feeding documents of very poor quality.

Dual Stacking

The Controlled Dual Stacking option allows you to separate and stack documents using the *Kodak* Controlled Dual Stacking Accessory based on size and patch code sheets. For more information see, Chapter 5, “Controlled Dual Stacking” later in this guide.



Dual Stacking can be turned **On** or **Off**.

Using the Operator Control Panel touchscreen

There are a variety of functions that can be accessed by using the Operator Control Panel touchscreen. If there is an arrow after the function, another screen will be displayed allowing you to make additional choices. For more information and procedures for using these functions, see the following sections.

To navigate through the touchscreen, simply touch the desired function with your finger. Using any object other than your finger may damage the touchscreen and void your warranty.

NOTE: If all of the functions cannot be displayed on the touchscreen at one time, touch the up or down arrow at the right-edge of the screen to gain access to a desired function.

Idle screen

The Idle screen provides a list of functions, scroll bar and the Settings button. In addition, the counter value is displayed in the status area at the top of the screen.



Counter value — the counter value will start at 0 and be incremented with each page scanned. The maximum value that will be displayed is 999,999,999.

NOTE: If the User Counter option is **On**, then the counter value is followed by the Document counter icon or the User counter icon to indicate which counter value is being displayed:



Document counter icon — indicates that the Document counter is being displayed.

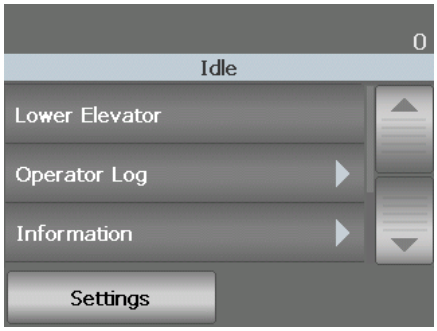


User counter icon — indicates that the User counter is being displayed.



Batch — *For the i5850 Scanner only:* indicates that batching is enabled.

When the Idle screen is displayed, you can do the following:

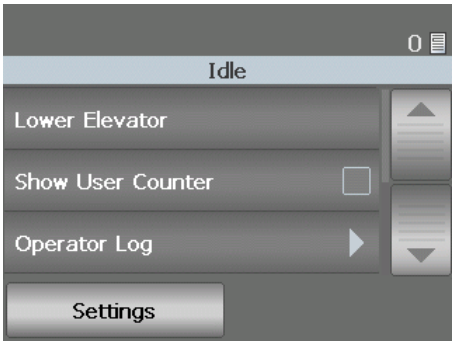


- **Lower Elevator** — lowers the input elevator to the lowest position.

  NOTE: This option will not be available if **Auto Raise** is off.

- **Operator Log** — provides error code information, such as the time the error occurred, the error code and a brief description of the error.
- **Information** — provides scanner information, such as scanner model, firmware version, etc.

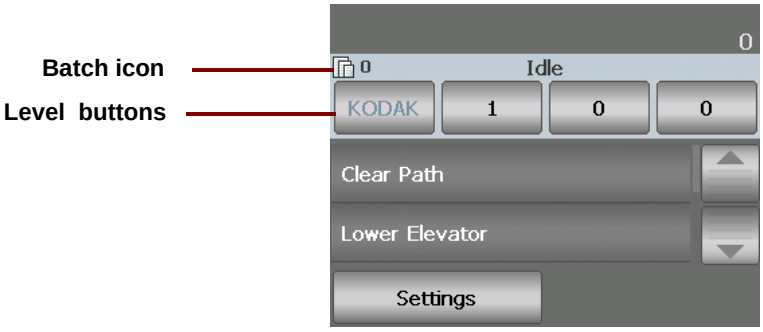
If the User counter is set to **On** (see “User counter” later in this chapter for more information) the **Show User Counter/Show Document Counter** and **Reset User Counter** will also be displayed on the Idle screen. These options allow you to select which counter value is being displayed as well as reset the value of the User counter (the Document counter must be reset by the scanning application).



- **Clear Path** — clears the scanner transport of any documents.
- **Diagnostics** — allows you to run a Print Test, Patch Test, run a scanner Self Test, put the scanner in Count Only mode, perform a UDDS (ultrasonic) calibration and perform a Touchscreen calibration.

Idle screen for the i5850 Scanner

When Indexing and Batching are enabled, the Idle screen will have addition options:



- **Batch icon**: this icon is only displayed when Batching is enabled. It displays the number of documents to be counted before performing a predefined action (when Indexing is enabled).
- **Level** buttons — when Indexing is enabled, the three indexing level buttons will be displayed: Level 3, Level 2 and Level 1. You can increment the index level by touching one of the level buttons. During a scan session the level button that is highlighted is the level which will be assigned to the next document.
- **End Batch option** (not shown in screen above) — when indexing is enabled, an End Batch option will be available allowing you to manually end the batch.

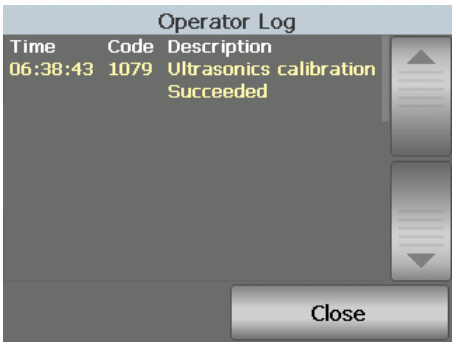
Lowering the elevator

Use this option whenever you need to make additional room in the input elevator tray for adding documents to the stack. The input elevator will descend to the lowest position (750-sheet) when you touch **Lower Elevator**.

NOTE: This option is not available if **Auto Raise** is off.

Viewing the Operator Log

When you touch **Operator Log**, the Operator Log screen will be displayed. This screen provides the time, message code and a message description.



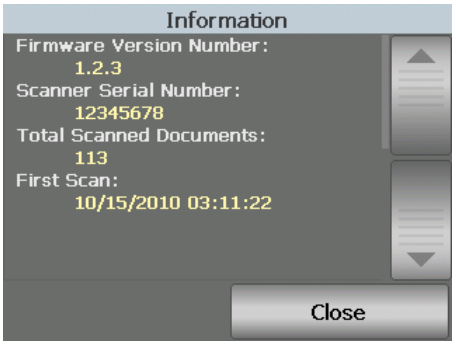
The messages that are displayed in the log are only those messages that have occurred since the scanner was powered on. When you turn the power off or the scanner goes into Standby or Low Power mode, the Operator Log on the Operator Control Panel touchscreen will be cleared.

To view messages which have been cleared from the Operator Control Panel touchscreen, see Chapter 7, *Troubleshooting*.

- After viewing the operator log, touch **Close** to return to the Idle screen.

Viewing scanner information

The Information screen provides information about your scanner (e.g., Firmware Version Number, Scanner Serial Number, Total Scanned Documents, etc.). Use the scroll bar to view all information.



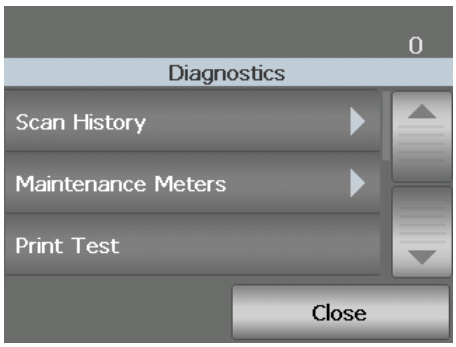
- After viewing this information, touch **Close** to return to the Idle screen.

Clearing the paper path

Touch **Clear Path** to allow the scanner to eject any documents that are left in the transport.

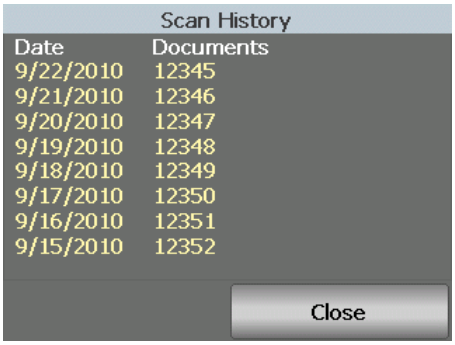
Diagnostics

Select **Diagnostics** to run a Print Test, put the scanner in Count Only mode, perform a UDDS (ultrasonic) calibration, perform a Touchscreen calibration view the maintenance meters and view the scan history.



Viewing the Scan history

1. Touch **Scan History**. The Scan History for the last 8 days of scanning will be displayed.

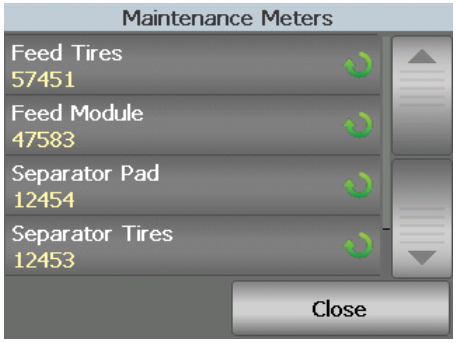


2. When finished, touch **Close**.

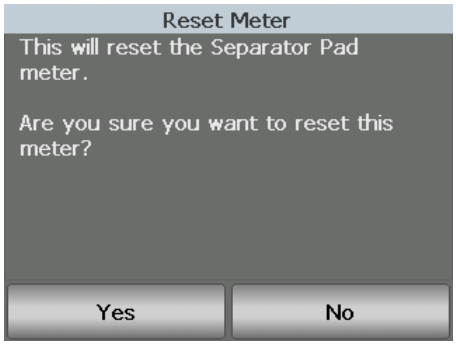
Viewing the Maintenance meters

Use the Maintenance Meters to monitor when you need to replace consumables. When you finish changing the feed module tires, feed module, separation pad, separation module or the separation roller tires, you can access the maintenance meters and reset the counter.

1. Touch **Maintenance Meters**. The Maintenance Meters screen will be displayed.



2. When you finish changing a consumable, touch the button of the consumable to reset the meter. For example, if you changed the pre-separation pad, touch **Separator Pad**. The following screen will be displayed.

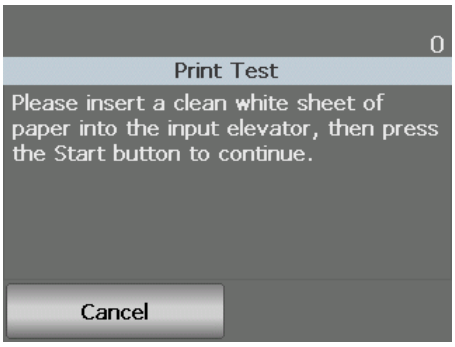


3. Touch **Yes** to continue with the reset.

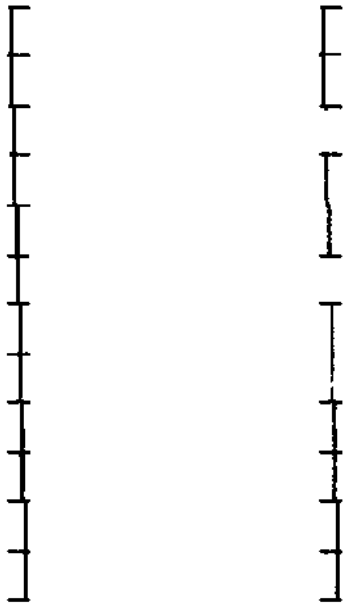
Performing a Print test

The print test checks to be sure the ink jets in the optional Enhanced Printer are working properly.

1. Touch **Print Test**. The Print Test screen will be displayed.



2. Place a blank sheet of paper in the input elevator.
3. Press the **Start/Resume** button. The document in the output tray will display the results of the print test.
4. Remove the document from the output tray and evaluate the appearance of the test pattern.
   - If the pattern is complete, you are ready to begin.
   - If the test pattern is inconsistent, verify that the ink cartridge is installed properly, or you may need to clean the print head or change the ink cartridge.



Acceptable **Unacceptable: pattern is inconsistent**

NOTE: Clean the print head by removing it from the printer carrier and dabbing the print head with a damp cloth. For procedures on removing or changing the ink cartridge, see Chapter 4, *Document Printing.*

5. Touch **Cancel** to return to the Idle screen.

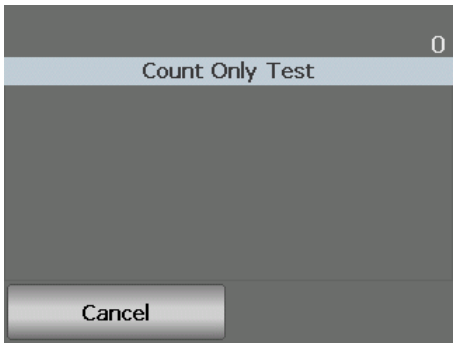
Performing a self test

The scanner self test will test the image capture subsystem to ensure that it is functioning correctly.

Count only mode

You may want to count the number of documents entering the scanner without actually scanning them.

1. Touch **Count Only**. The Count Only screen will be displayed.



2. Place the documents you want to count in the input elevator.
3. Press the **Start/Resume** button. When the scanner has scanned all documents, the total number will be displayed.
4. Touch **Cancel** when finished to return to the Idle screen.

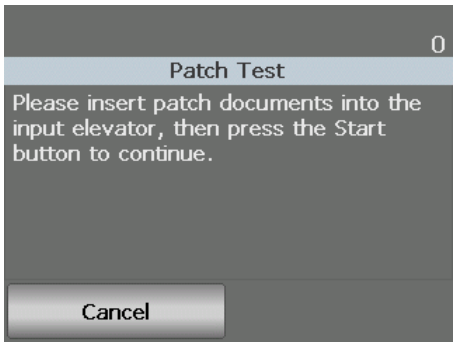
NOTES:

- When you press the Stop/Pause button, the feeder and transport will stop. You can continue your Count only test by pressing the Start/Resume button.
- In Count only mode, Document Handling will default to Improved Stacking.
- Multifeed Detection is not enabled in Count only mode.

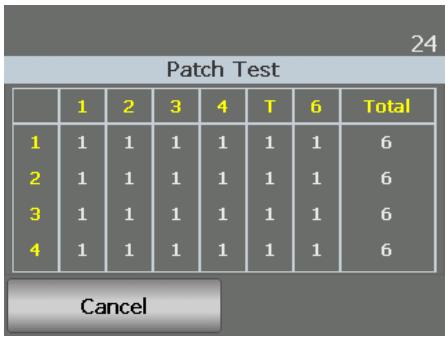
Performing a Patch test

Use the Patch test to verify that the patch sheets can be detected.

1. Touch **Patch Test**. The Patch Test screen will be displayed.



2. Place a document(s) with a patch(es) in the input elevator.
3. Press the **Start/Resume** button. When the document(s) has been scanned, the results of the patch test will be displayed on the touchscreen. The results show the number of patches and patch types that were recognized by the scanner.



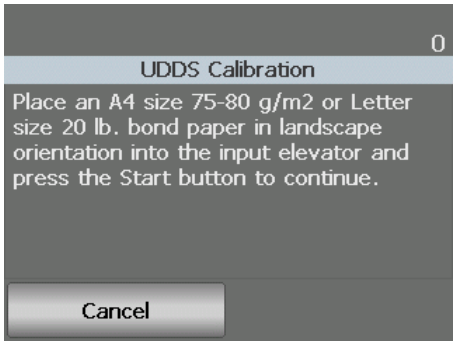
	1	2	3	4	T	6	Total
1	1	1	1	1	1	1	6
2	1	1	1	1	1	1	6
3	1	1	1	1	1	1	6
4	1	1	1	1	1	1	6

4. Touch **Cancel** to return to the Idle screen.

Performing a UDDS calibration

UDDS calibration is used to calibrate the ultrasonic document detection system for multifeeds. UDDS calibration is rarely needed. This calibration should only be performed if there is a feeding or multifeed detection issue.

1. Touch **Calibrate**. The Calibration screen will be displayed.
2. Touch **UDDS Calibration** to display the UDDS Calibration screen.



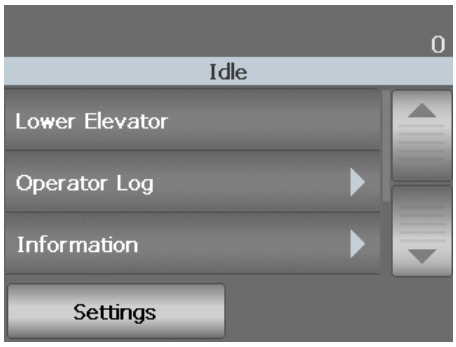
3. You will be prompted to place a 20 lb. or 80 g/m^2 bond sheet of paper in the input elevator in landscape orientation.
4. Press the **Start/Resume** button. The calibration results will be displayed.
5. When finished, touch **Cancel** to return to the Diagnostic screen.
6. Touch **Close** to return to the Idle screen.

Performing a Touchscreen calibration

Touchscreen calibration is used to verify that the touch points on the touchscreen are working correctly. The touchscreen is factory-calibrated and should not be performed unless directed to do so by Technical Support.

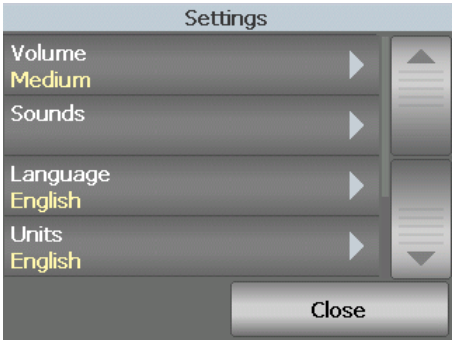
Settings screen

The Settings screen is accessed by touching **Settings** on the Idle screen.



When you touch the **Settings** button on the Idle screen, a function list will be displayed.

NOTE: The value displayed under the option is the current setting.



The Settings screen provides scanner settings that will only need to be set infrequently.

- **Volume** — allows you to adjust the volume of the scanner alarm.
- **Sounds** — allows you to select a sound that you want the scanner to make when a scanner condition is encountered.
- **Language** — allows you to select the language you want the information on the touchscreen to be displayed in.
- **Units** — allows you to select the units of measurement used in the Print Offset option.
- **User Counter** — when enabled, counts all documents that are fed until you reset it.
- **Auto Raise** — when enabled, will automatically raise the input elevator when paper is added to an empty input elevator.
- **Dual Stacking Toggle Patch** — when enabled, allows you to use patch sheets to out-sort any selected group of pages from the stack.

Changing the alarm volume

The Volume screen allows you to adjust the volume of the sound the scanner will make when a scanner condition is encountered from a **Very High** volume (loudest) to a **Low** volume (quietest) or to **Off** (no sound). The default is Low.

1. Touch **Volume** on the Settings screen to display the Volume screen.

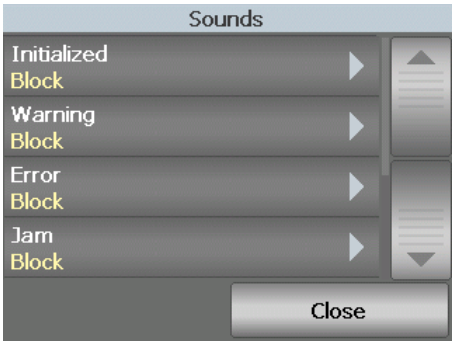


2. Select the desired Volume option. A tone will sound with each selection.
3. Touch **OK** to save your selection and return to the Settings screen; or touch **Cancel** to return to the Settings screen without saving your changes.

Selecting the sound

You can select the sound you want the scanner to make when a particular scanner condition is encountered such as, document jam or multifeed, etc.

1. Touch **Sounds** to display the Sounds screen.



2. Select the event (e.g., Warning, Error, etc.) that you want a tone to be set for. When you select an Event, another screen will be displayed listing a variety of different sounds that you can choose from.
3. Select the type of sound you want to hear. A tone will sound with each selection.
4. Return to the Sounds screen to set other sounds for other events by repeating Steps 2 and 3.
5. Touch **OK** to save your selection and return to the Settings screen; or touch **Cancel** to return to the Settings screen without saving your changes.

Selecting a language

The *Kodak* i5000 Series Scanners support several languages. Select the language you want the information on the touchscreen to be displayed in.

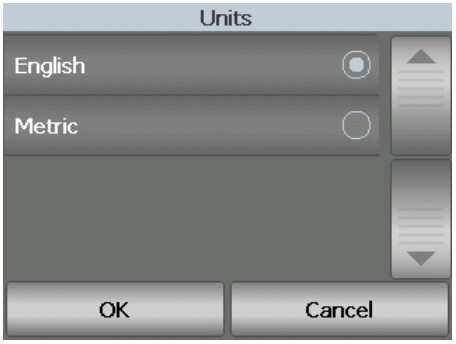
1. Touch **Language** to display the Language screen.



2. Touch the desired language. The screen will automatically be updated in the language of choice. If the language you want is not displayed on the screen, use the up and down arrows to display the desired language.
3. Touch **OK** to save your selection and return to the Settings screen; or touch **Cancel** to return to the Settings screen without saving your changes.

Units

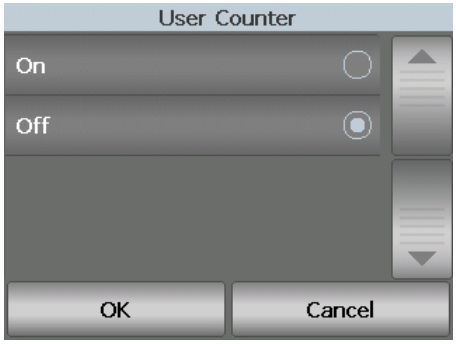
The Units option is used to select the unit of measurement used in the Print Offset option. Select either **English** (for inches) or **Metric** (for millimeters) and click **OK** to save your changes or **Cancel** to return to the Settings window without saving your changes.



User Counter

This option enables a counter that you can control. Once enabled, the counter goes to 0 and is incremented for every document fed. You can reset this counter at any time.

If the User Counter is set to **On**, the option to **Show User Counter/Show Document Counter** and **Reset User Counter** will be available from the Idle screen.

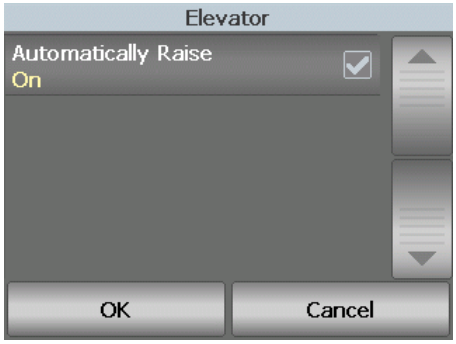


- If you touch **Show User Counter** on the Idle screen, the User counter icon will be displayed in the status area of the Scanning and Idle screens next to the Counter value.
- If you touch **Show Document counter** on the Idle screen, the Document counter icon will be displayed in the status area of the Scanning and Idle screens, next to the Counter value.

If the User Counter is set to **Off**, these options: **Show User Counter/Show Document Counter** and **Reset User Counter** will not be available from the Idle screen. Only the Document Counter value will be displayed in the status area of the Scanning and Idle screens.

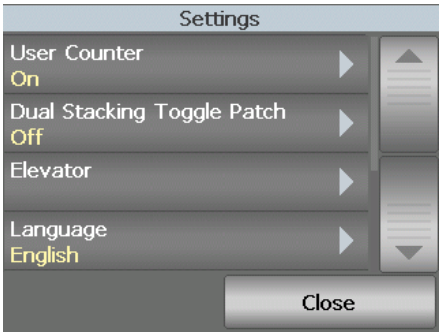
Auto Raise

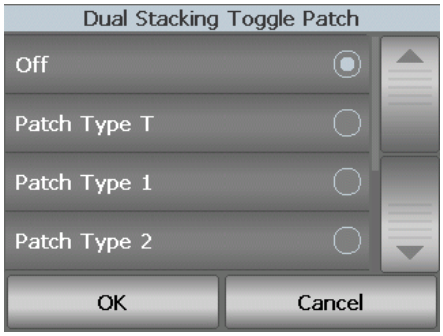
When this option is enabled, the input elevator will automatically raise to the feeding position when paper is added to an empty input elevator.



Dual Stacking Toggle Patch

When using the Controlled Dual Stacker Accessory, the Dual Stacking Toggle Patch option allows you to use patch sheets when you are doing document preparation to automatically separate special document(s) from the stack. If, for example, you need to save invoices for amounts greater than $10k, then you could use this option to have them out-sorted at the scanner by putting a patch sheet in front and behind these invoice pages. You could also automatically out-sort all of the color documents if you are using the color toggle patch..





4 Document Printing

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Installing/Replacing the ink blotter strips 4-7
Problem solving 4-9

This chapter provides information for using the optional *Kodak* Enhanced Printer Accessory. In order to use the printing option you must have purchased and installed the *Kodak* Enhanced Printer Accessory.

The printing occurs before the page is imaged so the printing will be visible in the scanned image of the page.

i5850 Scanner only: If you have a *Kodak* i5850 Scanner, you can print on the front or rear of all pages scanned. Post scan or back of page printing occurs after the page is imaged. You may only use one printer (either front or rear) at a time. If you install printer cartridges in both the front and rear printer, an error will be displayed.

NOTE: See the instructions that came with the Enhanced Printer Accessory for procedures on how to install this accessory.

The Enhanced Printer operates at full scanner speed. The printer can add a date, time, document sequential counter and custom messages.

The print string can be configured to include information that stays the same for each document; such as batch name or operator and information that may change for each page scanned (e.g., the document sequential counter).

All printer controls and functions (e.g., setting up print strings, etc.) are accessible through the TWAIN Datasource, ISIS Driver or VRS advanced scanner controls. Refer to the *Scanning Setup Guides* for TWAIN and ISIS or VRS on the CD/DVD.

NOTES:

- Printing must be enabled and a single ink cartridge must be installed before starting a scan session.
- Clean the scanner's paper path components daily when using the printer.
- If you attempt to scan with a job setup that has Printing enabled, and you do not have an Enhanced Printer installed, an error will be displayed.
- The illustrations in this section show the i5200/i5600/i5200V/i5600V Scanner. All adjustments for the front printer are the same for the i5800/ i5850 Scanners unless otherwise noted.
- Electronic image annotation is available on the i5200V and i5600V. Image annotation does **not** require the Enhanced Printer Accessory.

Printer specifications

More information about the following specifications can be found in the *Scanning Setup Guide* for the TWAIN Datasource, ISIS Driver or VRS.

Characteristic	Description
Maximum lines	1
Maximum characters	40 (including spaces)
Print locations (horizontal)	Up to 39 front manually set Up to 24 rear manually set - *i5850 Scanner only*
Print locations (vertical)	Set by the scanning application.
Print orientation	0, 90, 180 and 270 degrees
Font size	Normal, Bold and Extra Bold NOTES: • Not all languages can support a Bold font based on the complexity of the characters, such as half-width Katakana. • Font characters-per-inch can only be adjusted from x to y by Technical Support. Font is a custom design.
Print side	Front (pre-scan) Rear (post-scan) - *i5850 Scanner only*
Minimum printing distance from document lead edge	0.64 cm (0.25 in.)
Ink cartridge	Black: HP-C6602A Red: HP-C6602R Green: HP-C6602G Blue: HP-C6602B
Characters per ink cartridge	Up to 1,500,000 to 2,000,000 (based on font size used).
Static fields available	User-specified messages via the scanning application.
Dynamic fields available	Up to a nine-digit sequential document number, date, four-digit time and Julian date (and indexing for the i5850 Scanner).
Languages supported	Any phonetic language. For example: Dutch, English, French, German, Italian, Portuguese, Spanish, Japanese (half-width Katakana).

Installing/Replacing the ink cartridge

You must install the ink cartridge before using the printer. Refer to the section entitled, “Supplies and consumables” in Chapter 7 for ordering information.

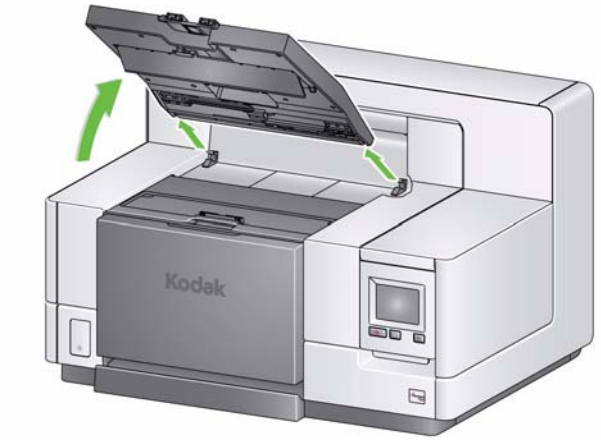
After initial installation, replace the ink cartridge when:

- printed characters appear light or uneven
- missing characters are evident
- a print test reveals inconsistent character quality
- cleaning has not improved the overall print quality

IMPORTANT: Consult the Hewlett-Packard website for recycling printing supplies or dispose the empty ink cartridge in accordance with all federal, state and local laws.

Accessing the front printer

1. Remove the output tray and open the printer access cover.



Continue with Step 2, “Installing the ink cartridge” on the next page.

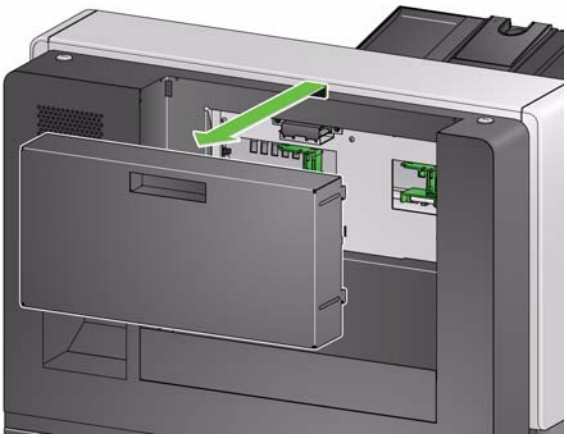


NOTE: If you do not want to remove the output tray, you can lift the front of the output tray, then lift the printer access cover and position the printer access cover behind the height adjustment tab.



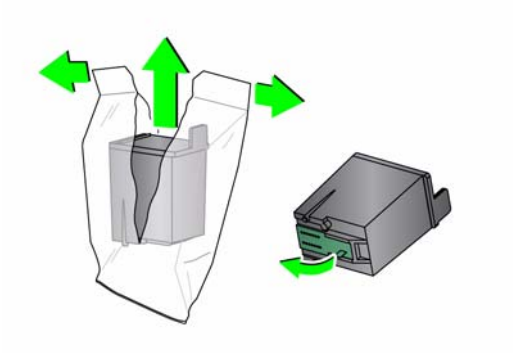
Accessing the rear printer (for the i5850 Scanner only)

1. Remove the rear access printer door by lifting the door up and out of position and continue with Step 2, “Installing the ink cartridge”.

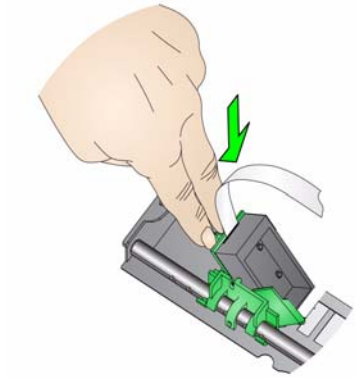


Installing the ink cartridge

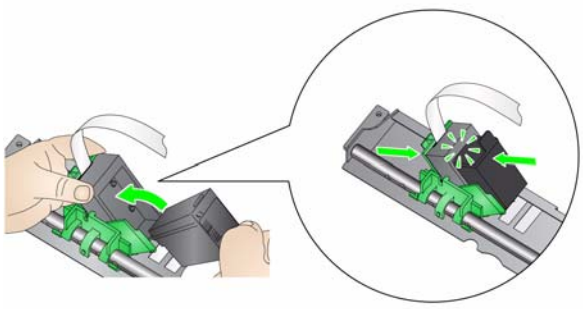
2. Open the ink cartridge package and remove the tab from the new ink cartridge.



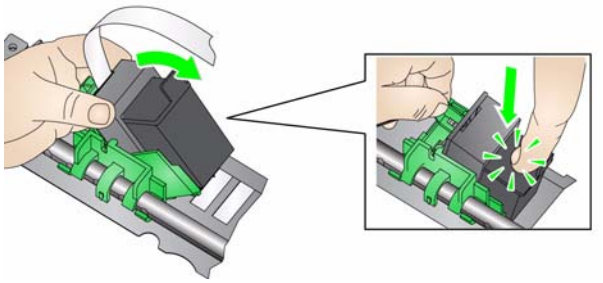
3. Push down on the printer carrier tab to rotate the printer carrier..



4. Snap the ink cartridge into the printer carrier as shown.



5. Rotate the printer carrier back and snap it in place.



6. Slide the printer carrier into the desired print position. See the section entitled “Changing print positions” later in this chapter.
7. Close the printer access cover and reinstall the output tray or if using the rear printer, reinstall the rear access printer door.
8. Run a print test (see the section entitled, “Performing a print test” in Chapter 3).

Changing print positions

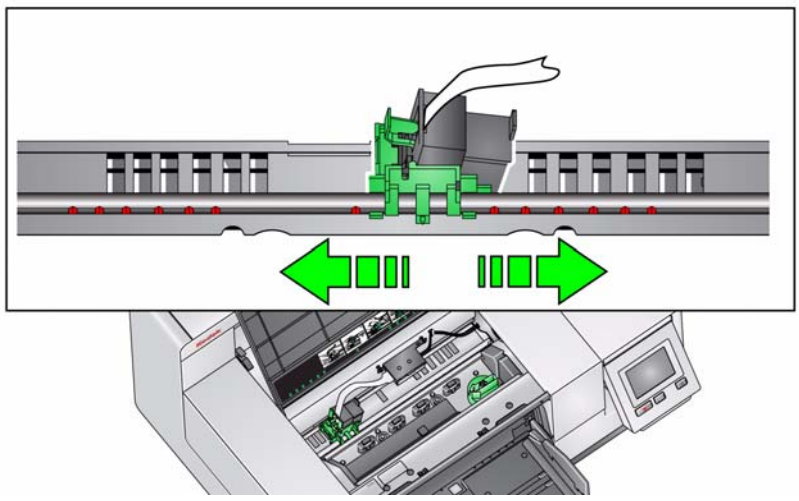
The horizontal print position must be changed manually.

NOTE: If you have an i5850 Scanner, these instructions are the same for the front and rear printers. The illustrations shown are for the front printer.

1. Remove the output tray.
2. Open the printer access cover.

   NOTES:
   - The horizontal print positions are visible by a small detent on the printer rail. The front printer has 39 detent positions, and the rear printer has 24 detent positions.
   - Printing automatically stops approximately 1.27 cm (½-inch) from the trailing edge of the document, even if the information has not been completely printed.
3. Slide the printer carrier to the desired position, so that is aligned with the slot on the printer carrier with the desired horizontal print position.

   NOTE: **For the front printer:** The print location indicators at the edge of the input elevator can be used as a guide to verify your horizontal print position.



NOTE: **For the rear printer:** The detent positions are located on the underside of the printer rail, therefore, they are not easily visible.

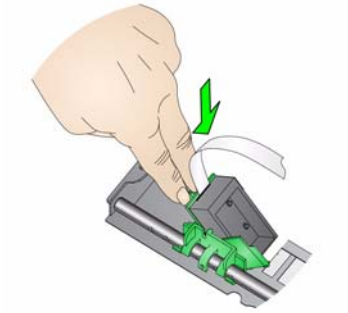
4. Close the front printer access cover and reinstall the output tray, or reinstall the rear printer access door.

Moving the ink cartridge between the front and rear print carrier (i5850 Scanner only)

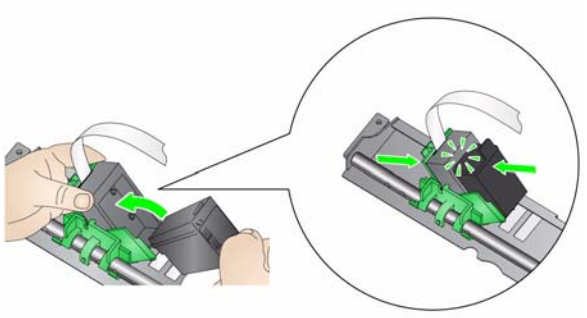
When using the front and rear printers, you can only print using one printer at a time. When you want to change from the front to the rear printer (or vice versa), do the following:

1. Access the front or rear printer area to remove the ink cartridge. See the procedures in “Accessing the front printer” and “Accessing the rear printer” earlier in this chapter.
2. Push down on the printer carrier tab to rotate the printer carrier and remove the ink cartridge.

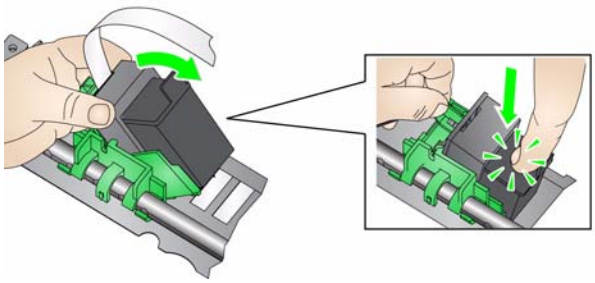
   NOTE: Be careful when moving the ink cartridge from front or rear (or rear to front) not to get ink on your hands.



3. Move the ink cartridge from the front or rear depending on where you want to print.
4. Snap the ink cartridge into the printer carrier as shown.



5. Rotate the printer carrier and snap it in place.



6. Slide the printer carrier into the desired print position. See the section entitled “Changing print positions” earlier in this chapter.
7. Close the front printer access cover and reinstall the output tray or reinstall the rear access printer door.
8. Run a print test (see the section entitled, “Performing a print test” in Chapter 3).

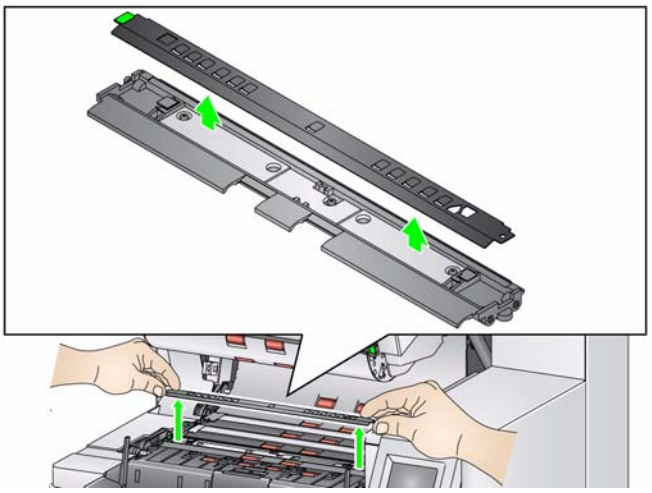
Installing/Replacing the ink blotter strips (Front printer only)

The three ink blotter strips on the scanner transport collect ink overflow from the printer. These strips should have been installed in the ink blotter channels at the time of printer installation. If they have not been installed, the following steps can be performed to install these strips for the first time.

Replace these strips as ink overflow collects on the blotter(s). Depending on your print position, all strips may not need to be replaced at the same time. To order additional ink blotter strips, see the section entitled, “Supplies and Consumables” in Chapter 7.

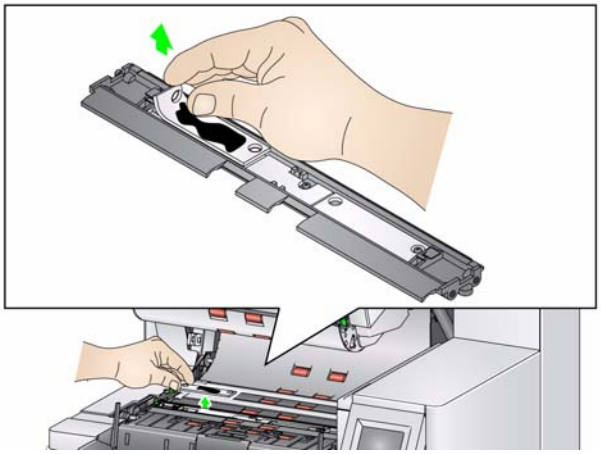
NOTE: No ink blotters are required for the rear printer.

1. Pull the scanner cover release latch forward to release and lift the scanner cover.
2. Remove the black drainage strip from the transport.

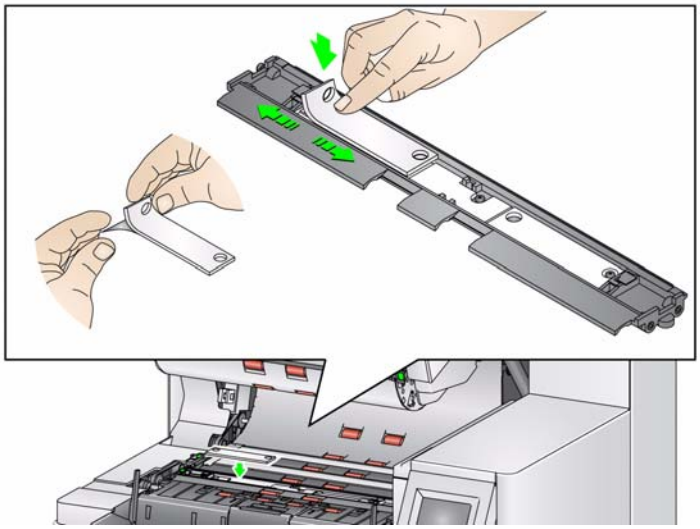


3. Locate the blotter strip channel. These channels are where the blotter strips will be installed or replaced.
4. If you are replacing a blotter strip, proceed with Step 5. If you are installing the blotter strips for the first time, go to Step 6.

5. Grasp the blotter strip(s) that needs to be replaced and carefully pull it off of the channel. Discard the soiled strip according to local regulations.



6. Remove the backing from a new blotter strip.
7. Align the blotter strip in the channel.



NOTE: Improperly aligned blotter strips may cause document jams.

8. Press the adhesive side of the blotter strip down firmly into the channel.
9. If other strips need to be replaced, repeat Steps 5-8.
10. Replace the black drainage strip.
11. Close the scanner cover.

Problem solving

Use the list below as a guide to check possible solutions to problems you may encounter when using the printer.

Problem	Possible Solution
Print quality is poor or inconsistent	• Be sure the ink cartridge is not empty. • Be sure the ink cartridge is properly installed. • Be sure the ink cartridge is in the correct position for printing. • Verify that the printer has been enabled in the scanning application and that the expected print string has been specified. • Verify that all printer connectors are securely fastened and that the printer cable is securely attached. • Run a print test to verify that all jets are functioning properly. See the section entitled, “Performing a print test” in Chapter 3. • Clean the print head (see “Printing problems when starting up due to dry print head” below.)
Printing problems when starting up due to dry print head	Remove the ink cartridge from the scanner and using a damp cloth or swab, dab (do not wipe) the ink jets on the ink cartridge, replace the ink cartridge and try again.
Not printing	• Be sure that printing is enabled in the scanning application. • Check to be sure that the ink cartridge is secure in the desired print position. • Be sure the tape is removed from the print head.

5 Controlled Dual Stacking

Contents

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Recommended configurations 5-2
Recommended paper specifications 5-2
Length Protection Enabled for portrait scanning 5-3
Tips for reliable stacking 5-4
Adjusting the Controlled Dual Stacking Accessory 5-5
- Adjusting the side guides on Stack #1 and Stack #2 5-5
- Short document insert 5-6
- Adjusting the end stop 5-7

Overriding Controlled Dual Stacking 5-7
Problem solving 5-7

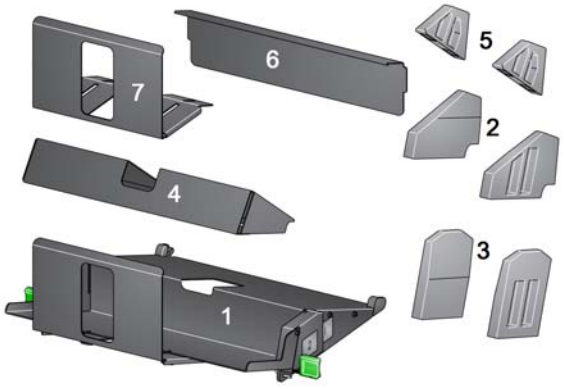
This chapter provides information for using the optional *Kodak* Controlled Dual Stacking Accessory. To use the stacking option you must have purchased this accessory and the feature must be enabled by a qualified Service Representative.

This accessory allows physical stacking of the scanned documents based on document size or a patch code. This accessory also has the ability to choose the stacking location of a document that triggers a multifeed event.

Refer to the *Scanning Setup Guides* for TWAIN and ISIS on the CD/DVD or your scanning application documentation for more information about enabling and setting up your scanner for using controlled dual stacking.

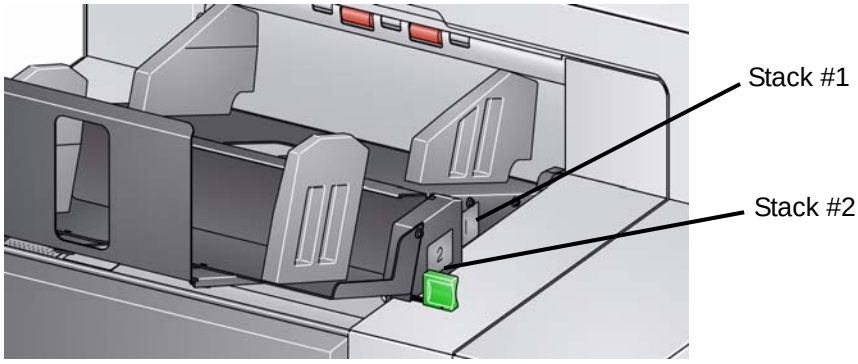
Use the guide below to help you locate parts when you are adjusting and using the Dual Controlled Stacking Accessory.

1 1 exit tray with extendable end stop
2 2 magnetic sides guides for Stack #1
3 2 magnetic side guides for Stack #2
4 1 short document insert
5 2 magnetic short document side guides
6 1 extender insert Stack #1
7 1 alternate end stop extension



Stacking locations

The Controlled Dual Stacking Accessory is designed to replace the standard exit tray on the i5000 Series Scanners. The Controlled Dual Stacking Accessory has two stacking locations — Stack #1 and Stack #2.



Stack #1: is located closest to the top of the document transport where the document exits the scanner. This location is typically used as the exception stack when you want to separate shorter documents (less than 6 inches) from a document set.

Stack #2: is the lower location and is typically used as the exception stack when you want to separate patch pages from a document stack or separate a multifed document.

Recommended configurations

The TWAIN Datasource, ISIS Driver or your scanning application provides options on how you want to output your documents (e.g., based on size, patch pages or multifeeds) using the Controlled Dual Stacking feature. See the *Scanning Setup Guides* for TWAIN and ISIS on the CD or your scanning application documentation for more information.

NOTES:

- After configuring the Controlled Dual Stacking feature, you may need to adjust the side guides on the Controlled Dual Stacking Accessory to accommodate your scanning setup.
- For documents less than 5 inches long use the optional short document insert.

Recommended paper specifications

Stack #2 requires that the paper has certain qualities to be released in an uncontrolled manner for it to stack correctly. Paper that lacks stiffness and sufficient mass will not reach Stack #2 and will ultimately create disorder in the output tray.

Recommended documents for reliable stacking in Stack #2

- A4 size documents that are in good condition and are 60 - 80 gsm and scanned in landscape orientation.
- US lettersize documents that are in good condition and are 16 - 24 lb. bond paper scanned in landscape orientation.

Documents that may not stack reliably in Stack #2

- Documents with folds perpendicular to the direction of the document transport
- Documents in poor condition
- Documents with lead edge curl or damage
- Documents less than 8 inches and longer than 12 inches
- 110 lb. index paper of any size
- Lettersize 28 lb. bond paper
- A4 size 70 lb. offset paper
- Any size onionskin paper, NCR paper or photographs
- Lettersize 200 lb. index paper
- A4 size 90 gsm paper

NOTE: Even though the conditions listed above may not be reliable stacking conditions, they may stack well under some circumstances.

Other factors that can effect stacking

- High and low humidity can cause documents to stack differently.
- Air disturbances, such as people walking near the scanner, fans, air vents, etc. may cause documents intended for Stack #2 to not stack properly.
- Exceeding the recommended stack height (200 documents, 20 lb. bond paper in good condition) in Stack #1 may prevent documents from stacking properly in Stack #2.
- Use of the magnetic side guides can greatly improve stacking neatness.
- Curled lead edges may increase or decrease Stack #2 stacking reliability depending on the direction of the curl and the paper type.
- Documents with lead edge tears, corner folds, tri-folds, bi-folds can have an unpredictable effect when depositing into Stack #2.

Length Protection Enabled for portrait scanning

The Controlled Dual Stacking Accessory has been designed for stacking when feeding documents in landscape orientation. Stacking documents longer than 8.5 inches (215 mm) may not be possible and is dependent on the type and condition of the pages that are to be deposited in Stack #2. To prevent poor stacking of landscape pages, the Controlled Dual Stacking option, by default, will cause a jam condition if a page longer than 8.5 inches (215 mm) is scanned when stacking is enabled.

The message, ***Length Protection Enabled*** will be displayed on the Operator Control Panel to indicate that the maximum document length limit is in effect. If you want to stack documents longer than 8.5 inches (e.g., Portrait orientation), you should contact Technical Support for assistance.

NOTE: The **Allow Maximum Length** override will not disable Controlled Dual Stacking Length Protection.

Refer to the following table for best stacking conditions:

Stack #1	
Maximum document stack capacity	1 inch (25 mm): Typically 200 documents, new condition, 20 lb. bond.
Maximum document length: landscape (when scanning a variety of paper types and conditions)	8.5 inches (215 mm): US lettersize
Maximum document length: portrait (when scanning only recommended paper types in good condition)	11.7 inches (297 mm): A4 letter
Maximum paper width (landscape)	11.7 inches (297 mm): A4 letter
Minimum paper width	2.5 inches (63 mm)
Minimum paper length	2.5 inches (63 mm)
Stack #1 (with short document insert)	
Maximum document stack capacity	1 inch (25 mm): Typically 200 documents, new condition, 20 lb. bond.
Maximum paper length	5.85 inches (148 mm)
Maximum paper width	11.7 inches (297 mm)
Stack #2	
Maximum document stack capacity	1 inch (25 mm): Typically 200 documents, new condition, 20 lb. bond.
Maximum document length: landscape (when scanning a variety of paper types and conditions)	8.5 inches (215 mm): US lettersize
Maximum document length: portrait (when scanning only recommended paper types in good condition)	11.7 inches (297 mm): A4 letter
Maximum paper width (landscape)	11.7 inches (297 mm): A4 letter
Minimum paper width	5.5 inches (139 mm)
Minimum paper length	5.5 inches (139 mm)

Tips for reliable stacking

In addition to the guidelines outlined in the “Recommended paper specifications” section, use this tips below to achieve the best possible stacking results.

- For neater stacking use a jogger to align your document edges before scanning.
- If you are using patch sheets to separate documents and if the patch sheets are not separating correctly, you can print your patch sheets on heavier weight paper. The heavier weight paper will aid in better Stack #2 stacking.

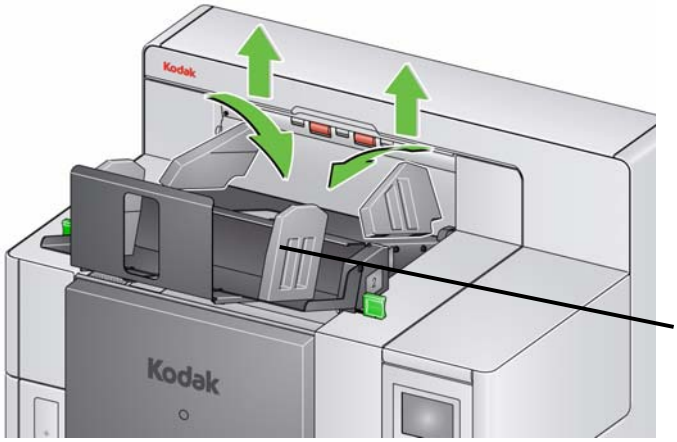
Adjusting the Controlled Dual Stacking Accessory

If the Controlled Dual Stacking Accessory is not installed, refer to the installation procedures that came with the accessory.

Adjusting the side guides on Stack #1 and Stack #2

The side guides improve stacking of documents. You may need to change the location of the side guides until you find the best stacking of your documents.

The side guides are magnetized. When removing the sides, you may need to tilt the guides to the left or right to remove them more easily.



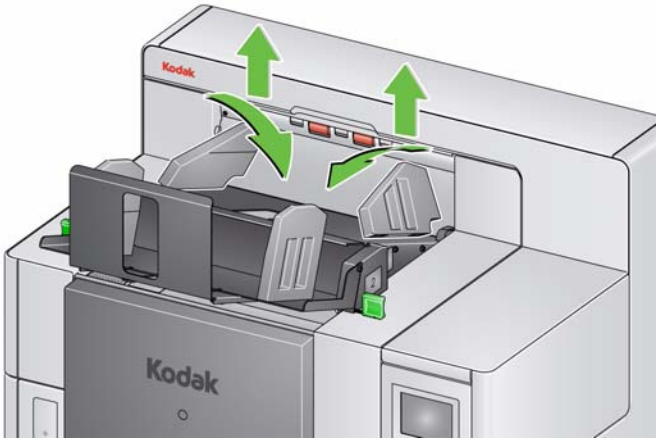
NOTE: The handles of the side guides should always be facing outward.

Short document insert

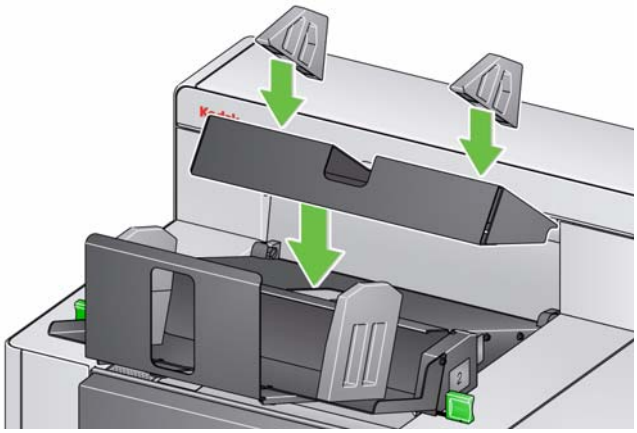
The short document insert can be used when stacking checks or other short documents in Stack #1.

To install the short document tray:

1. Remove the side guides from Stack #1.



2. Insert the short document insert. Refer to the illustration below for the correct orientation.

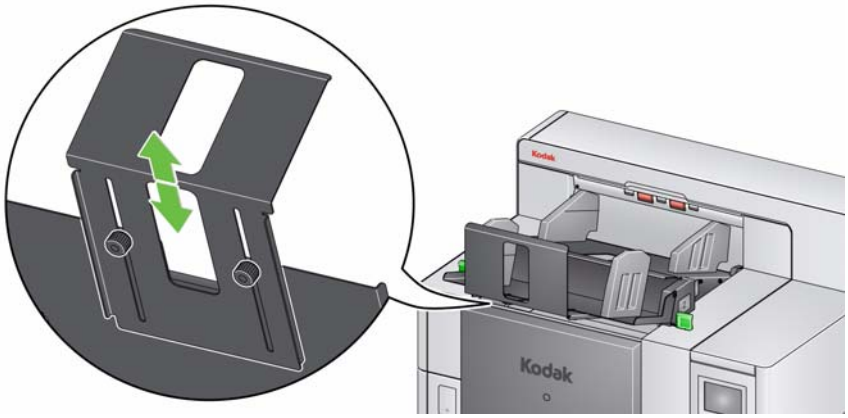


NOTE: It is suggested that you position the magnetic side guides about 2 inches (50.8 mm) from the back edge of the scanner. However, the side guides can be placed in any position that improves stacking.

Adjusting the end stop

You can also adjust the end stop. It is recommended that the end stop be adjusted about 1.5 inches (38.1 mm) longer than the longest document that will be deposited into Stack #2. Use the thumbscrews on the bottom of Stack #1 to make adjustments.

1. Loosen both screws on the bottom of Stack #1.



2. Slide the end stop in or out to the desired length.
3. Tighten both screws.

Overriding Controlled Dual Stacking

Controlled Dual Stacking can be overridden by using the Overrides screen on the Operator Control Panel. See the section entitled, “Scan job overrides - Dual Stacking” in Chapter 3 for more information.

Dual Stacking Toggle Patch

Dual Stacking Toggle Patch can be enabled from the Operator Control Panel. See the section entitled, “Settings screen: Dual Stacking Toggle Patch” in Chapter 3 for more information.

Problem solving

Use the list below as a guide to check possible solutions to problems you may encounter when using the Controlled Dual Stacking Accessory.

Problem	Possible Solution
Documents are not separating	• Verify that the Controlled Dual Stacking Accessory has been enabled by a Service Representative.
Documents with patch codes are not stacking in Stack #2 correctly	• Try copying the patch sheet on a stiffer paper. Using stiff paper stock for printedpatch sheets will allow the pages to be output into Stack #2 more reliably.
Some documents are not stacking neatly in Stack #1	• For neater stacking you can use a jogger to align document edges before scanning.
Documents stop in the scanner	• The Length Protection option is limiting the scanner to only allow landscape feeding. See the section entitled, “Length Protection Enabled” earlier in this chapter for more information.

6 Patch Reading

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Color Toggle patch 6-5
Patch pattern details 6-6
Patch pattern orientation 6-8
Bar pattern details 6-10
Patch positioning 6-12
Paper details 6-12

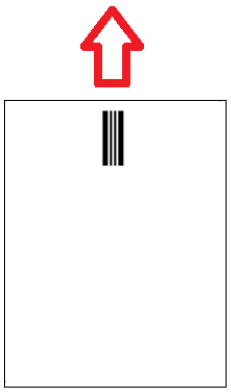
Patch reading

Patch codes are patterns of bars that are printed on pages that, when scanned by a *Kodak* scanner, instruct the scanner or scanning application to trigger a feature of the scanner or scanning application. Document separation is a common use of patch pages. Typically, patch pages are separate physical pieces of paper with patch patterns printed on them that are inserted into a stack of pages to be scanned. The features that are triggered by the patch page are determined by your scanner or scanning application.

Kodak i5000 Series Scanners can read patches in these ways.

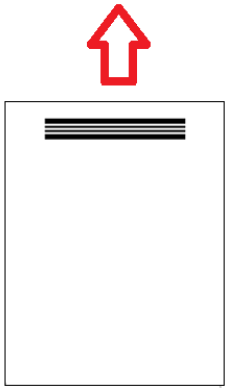
- **Method 1:** Using the cameras to read patches vertically. *Vertical* in this document means the bars of the patch pattern are aligned to the direction of paper movement in the scanner.

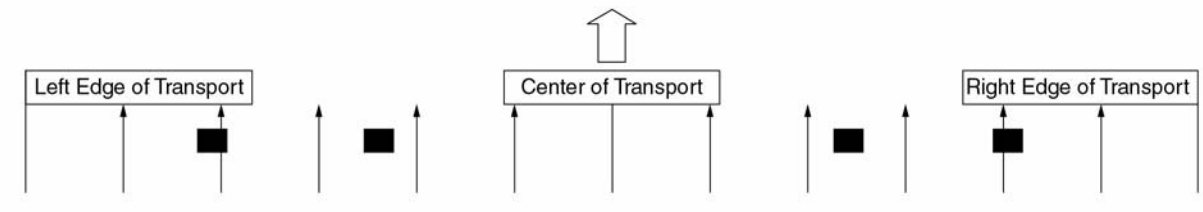
  This method of patch reading allows the patches to be anywhere across the top of a document and on the front or back of the document. A disadvantage to this method is that a page with a patch pattern will be printed before (with front, pre-scan printer) the patch is read so the printing on a page cannot be modified based on the presence of a patch on that page.



- **Method 2:** Using the cameras to read patches horizontally. *Horizontal* in this document means that the bars of the patch pattern are perpendicular to the direction of paper movement in the scanner.

  When reading patches in the horizontal orientation, using the camera the scanner creates four virtual patch readers in the same locations as the four physical patch readers. The patches must be located on the page in a location that would pass through the transport in the same location as the four physical patch readers.





This method of patch reading allows the patches to have horizontal bars and read patches on the front or rear of the page. A disadvantage to this method is that a page with a patch pattern will already be printed before the patch is read so the printing on a page cannot be modified based on the presence of a patch on that page.

- **Method 3:** Using the hardware patch readers to read patches horizontally. The patches must be located on the page in a location that passes through the transport in the same location as the four physical patch readers. An advantage to this method is that it allows scanner with image address/ indexing capabilities to print the correct Document Locator Number (image address) on every page. Patch patterns must be on the front of the page.

The *Kodak* i5000 Series Scanners read patch patterns differently depending on your scanner model and what features are enabled.

- **i5200**, **i5200V**, **i5600 and i5600V Scanners:** can only read Color Toggle patches using the front and rear cameras in the vertical orientation.
- **i5800 Scanner**: can read Type 1, Type 2, Type 3, Type T, Type 6 and Color Toggle patches if you have the Controlled Dual Stacking Accessory. If the i5800 Scanner does not have the Controlled Dual Stacking Accessory, only the Color Toggle patch can be read.
- **i5850 Scanner**: has all of the capabilities of the i5800 Scanner with the addition of four hardware patch readers that can read Type 1, Type 2, Type 3, Type T, Type 6 and Color Toggle patches on the front side of a page. The i5850 Scanner has hardware patch readers which are used for Indexing/ image addressing which allows you to control printing by using patch pages.

Kodak Scanner	Features Enabled		Includes Hardware Patch Readers	Image Address Patches 1,2,3,4,T,6 (with Hardware Patch Readers, Front only)	CDS Patches Read Vertical (with Camera, Front or Rear)	CDS Patches Read Horizontal (with Camera, Front only)	Color Toggle Patch Read Horizontal (with Hardware Patch Readers, Front only)	Color Toggle Patch Read Horizontal (with Camera, Front only)	Color Toggle Patch Read Vertical (with Camera, Front or Rear)
	CDS	IA					-		
i5200 or i5200V	-	-	no	-	-	-	-	No	Yes
i5600 or i5600V	-	-	no	-	-	-	-	No	Yes
i5800	no	-	no	-	-	-	-	no	yes
	yes	-		-	yes	no	-	no	yes
i5850	no	yes	Yes	yes	-	-	yes (to prevent printing)	yes	yes
	yes	yes		yes	yes	yes		yes	yes
	yes	no		-	yes	yes		no	yes
	no	no		-	-	-		no	yes
i1800 or i800	-	yes	Yes	Yes	-	-	yes	no	no
i1800	-	no		-	-	-	no	no	yes

Specific to i5850 Scanners

Patch readers

Because the *Kodak* i5850 Scanner has hardware patch readers, when the Indexing/Image Addressing feature is enabled, incrementing on the document index will be triggered by a 2, 3, or T patch being read on the front side of the page by any one of the four hardware patch readers.

If the Controlled Dual Stacking option is enabled, the scanner will sort based on a patch and the patches will be read by the front or rear camera patch readers in either vertical or horizontal orientation.

NOTE: The i5800 Scanner will only read vertically oriented patches using the Controlled Dual Stacking Accessory.

If **Indexing** is also enabled, the patch reader selection control will allow selection of which virtual patch readers will be enabled for front side horizontal patch reading. If **Indexing** is not enabled, then the Controlled Dual Stacking feature will enable all virtual patch heads.

Color Toggle Patch reading

If **Indexing** is enabled, Color Toggle patches will be read by both the front and rear cameras and the hardware patch readers. The Color Toggle patches will be read in either vertical or horizontal orientation by the front or the rear cameras. You can select which patch readers will be enabled for front, horizontal Color Toggle patch reading via your scanning application (e.g., TWAIN, ISIS). If horizontal Color Toggle patches are successfully read with the hardware patch readers, they will not be imprinted if **Printing** (with front, pre-scan printer) is enabled. Rear horizontal Color Toggle patches will always be imprinted if **Printing** is enabled.

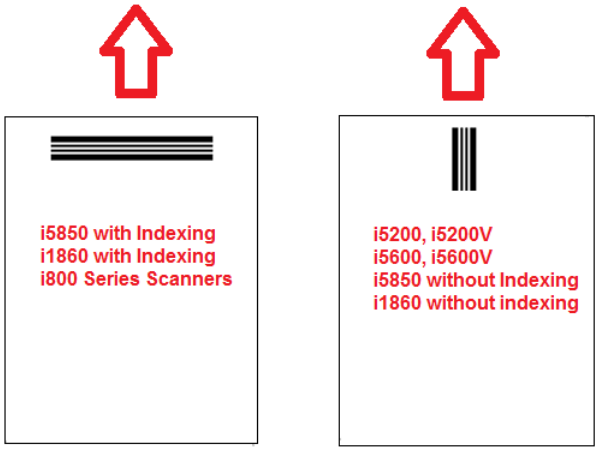
If **Indexing** or the **Controlled Dual Stacking** option is not enabled on the i5850 Scanner, Color Toggle patches will only be read by both of the camera patch readers in the vertical orientation and will always be imprinted if **Printing** (with front, pre-scan printer) is enabled.

Patch code requirements

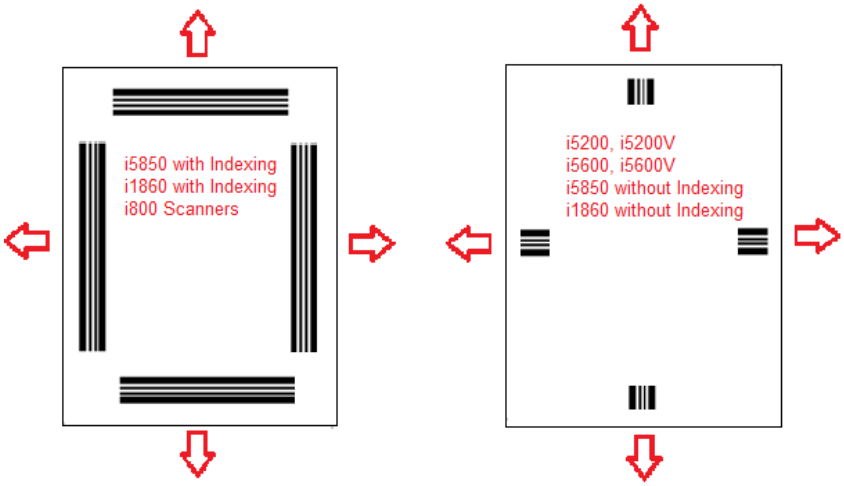
There are very specific requirements for the size and location of the patch patterns so care should be taken to ensure that the patch pages are created correctly.

NOTE: For information regarding enabling scanner features that are used with patch page, see the *Scanning Setup Guides* for TWAIN and ISIS or your scanning application documentation.

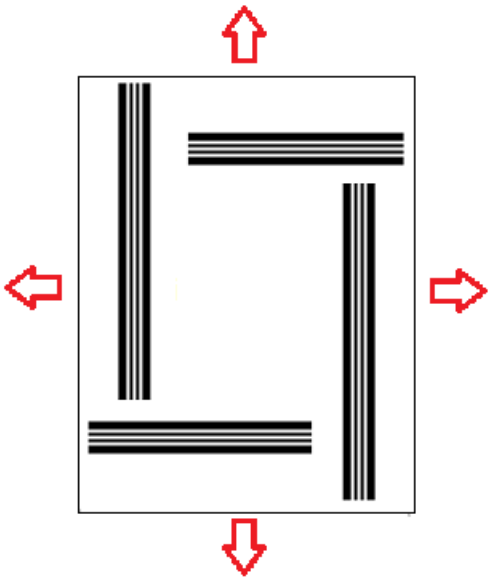
The most important difference between the patch reading system of the i5000 Series Scanners and other *Kodak* Scanners is that only patches with bars that are in line with the lead edge of the document are recognized.



To enable feeding in any direction it is common that patch pages are created with patch patterns on each edge of the page.



It is also possible to create a patch page that can be used on any *Kodak* Scanner with bar patterns that will be read consistently with camera patch reading or sensor patch reading.



Color Toggle patch

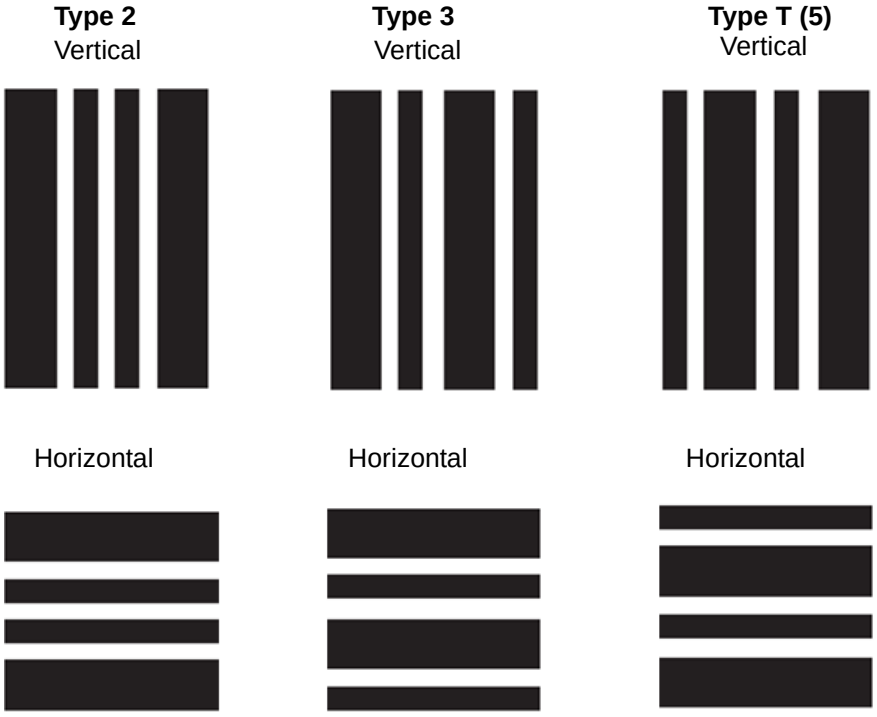
Sample PDF files of the patch patterns are available for download from the Kodak Alaris website: www.kodakalaris.com/go/docimaging. Click the **Support Center** tab then select: **Document Scanners>Production>i5850 (i5200, i5600, i5800)** and select **User Manuals**.

NOTE: There are PDF versions that are sized for printing on A4 and US lettersize paper. There are also TIFF source files that can be used to customize the patches for your business. Follow the instructions provided to ensure that the pages print accurately on your printer.

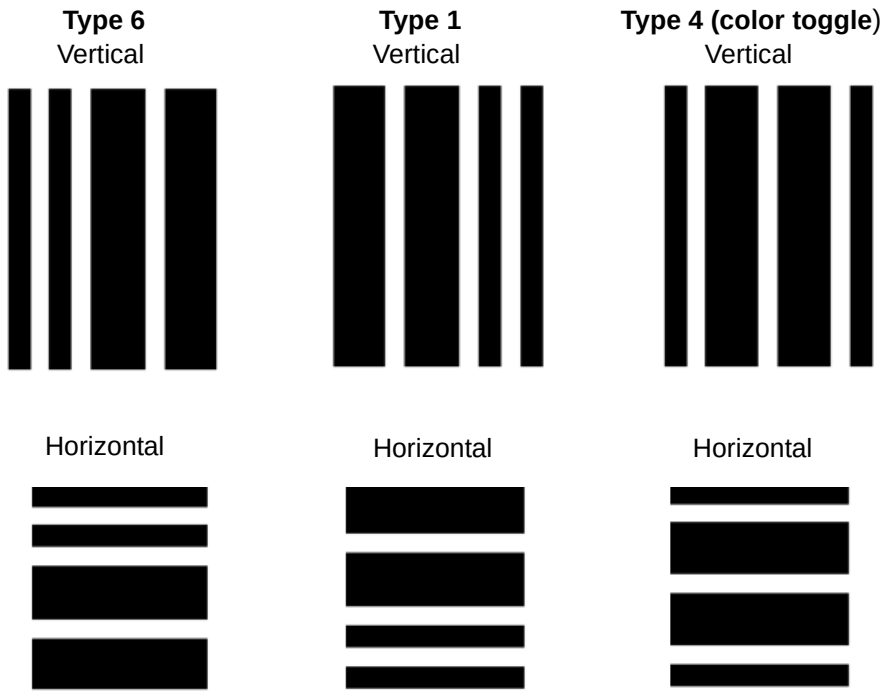
Patch pattern details

There are two patch classifications:

- **Document/Batch separation patches** (sometimes referred to Image Address patches) — these patches are traditionally used for scanning many different documents at one time with patch pages as separators. These patches are Type 2 (Document Separation) Type 3 (Batch Separation) and Type T which can be used for either Document or Batch Separation).



- **Feature patches** — these patch pages traditionally are not used for document separation. These patches may be used to trigger scanner features (such as color toggling or multifeed detection control) or can be used to trigger software features. These patches are Type 1, Type 4 (color toggle) and Type 6.



NOTE: Do not print the above patch patterns for use in a scanner. These example patterns are not correctly sized for production use. Printable PDF versions are available for download from the Kodak Alaris website.

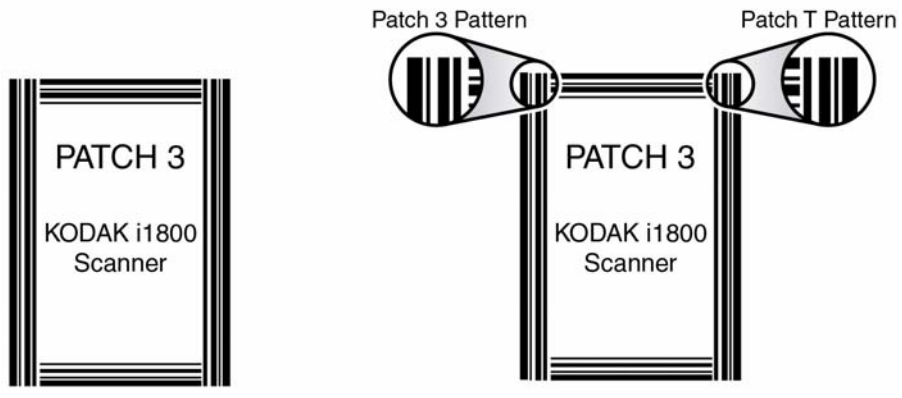
Patch pattern orientation

(for the i5800 Scanner with the Controlled Dual Stacker Accessory)

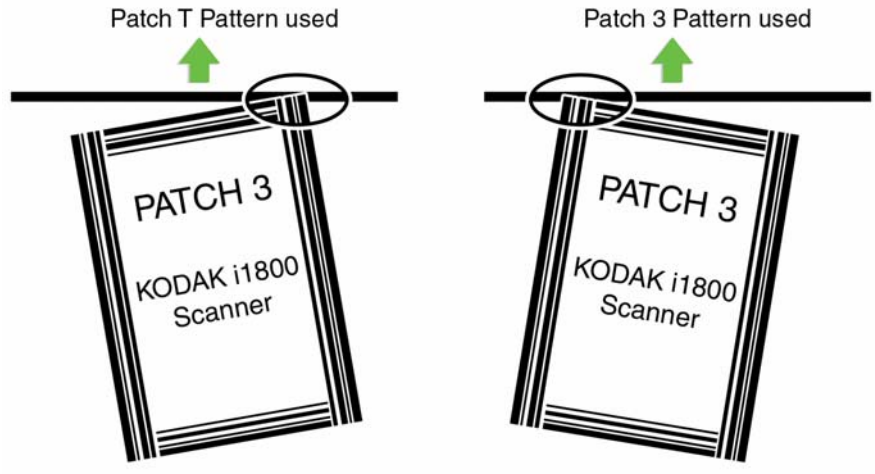
NOTE: This section only applies to the *Kodak* i5800 Scanner with the Controlled Dual Stacker Accessory. The *Kodak* i5850 Scanner has horizontal patch reading built-in; however, the **Stacking** option must be enabled to use this feature).

If you are using the Controlled Dual Stacking Accessory on the i5800 Scanner, you must orient the patch patterns correctly. The Type 3 patch is the inverse of the Type T patch and the Type 1 patch is the inverse of the Type 6 patch. If patch pages are not formatted correctly, this can cause incorrect patch pattern reading because only the first patch pattern that is read by the front and rear camera will be used.

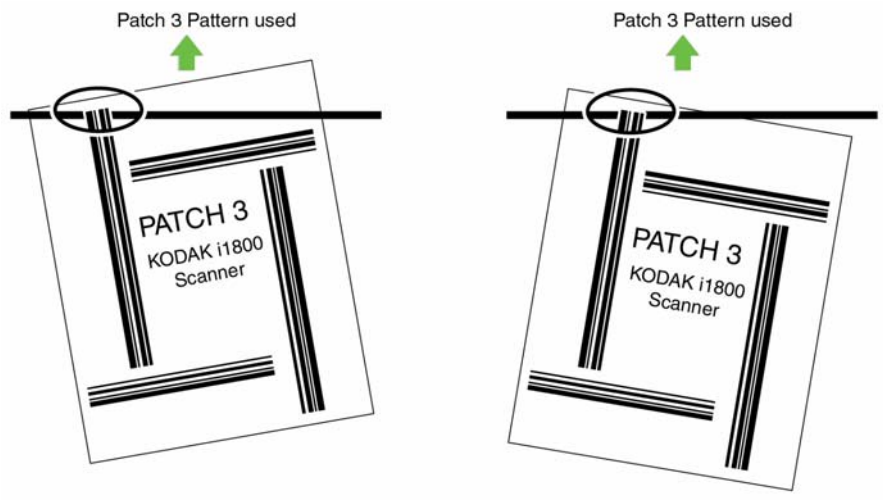
For example, many patch pages designed for scanners that read patches with physical patch reader sensors (*Kodak* i800/i1800 Series Scanners) will have bars that extend to the edges of the page on more than one side. While this worked well on *Kodak* i800/i1800 Series Scanners there is a potential problem when reading patch pages like this on the *Kodak* i5000 Series Scanners.



If the page is skewed during scanning such that the right edge of the page passes over a camera first, then the patch page may be read as a Type T patch rather than a Type 3 patch.



To prevent this potential issue you should construct your patch patterns such that only one bar pattern can be read even if the patch page is skewed.



Bar pattern details

A patch is a pattern of parallel, alternating black bars and spaces that is printed on a document. In order to prevent other document data from being detected as a patch, the scanner will only recognize a correctly formed bar pattern as a patch. The width of bars and spaces between the bars need to be very tightly controlled to ensure that the scanner detects the bar pattern.

The wide bars should be 0.20 inches (5 mm) wide $\pm$ 0.01 inches (0.25 mm). The narrow bars and spaces should be 0.08 inches (2.03 mm) wide + 0.01 inches (0.25 mm). The maximum width of the patch code is 0.80 inches (20 mm) + 0.01 inches (0.25 mm). The minimum overall length of the patch bars is 2 inches (50 mm).

Patch Codes

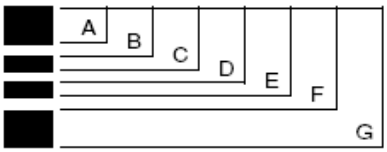
Patch 2



Assigns image level 2 to the *current* document.

Patch code specifications

Patch 2



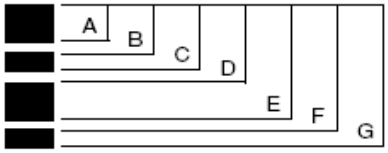
Zone	Inches		Millimeters	
	Low Range	High Range	Low Range	High Range
A	0.19	0.21	4.83	5.33
B	0.27	0.29	6.86	7.37
C	0.35	0.37	8.89	9.40
D	0.43	0.45	10.92	11.43
E	0.51	0.53	12.95	13.46
F	0.59	0.61	14.99	15.49
G	0.79	0.81	20.01	20.57

Patch 3



Assigns image level 3 to the *current* document.

Patch 3

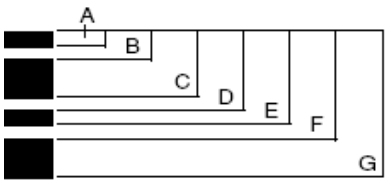


Zone	Inches		Millimeters	
	Low Range	High Range	Low Range	High Range
A	0.19	0.21	4.83	5.33
B	0.27	0.29	6.86	7.37
C	0.35	0.37	8.89	9.40
D	0.43	0.45	10.92	11.43
E	0.63	0.65	16.00	16.51
F	0.71	0.73	18.03	18.54
G	0.79	0.81	20.07	20.57

Patch T / Transfer Patch



Patch T / Transfer Patch



Zone	Inches		Millimeters	
	Low Range	High Range	Low Range	High Range
A	0.07	0.09	4.83	5.33
B	0.15	0.17	6.86	7.37
C	0.35	0.37	8.89	9.40
D	0.43	0.45	10.92	11.43
E	0.51	0.53	16.00	16.51
F	0.59	0.61	18.03	18.54
G	0.79	0.81	20.07	20.57

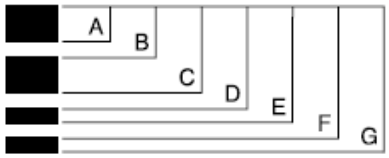
Patch Codes

Patch 1



Patch code specifications

Patch 1

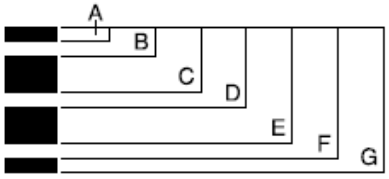


Zone	Inches		Millimeters	
	Low Range	High Range	Low Range	High Range
A	0.19	0.21	4.83	5.33
B	0.27	0.29	6.86	7.37
C	0.47	0.49	11.94	12.45
D	0.55	0.57	13.97	14.48
E	0.63	0.65	16.00	16.51
F	0.71	0.73	18.03	18.54
G	0.79	0.81	20.07	20.57

Patch 4 / Toggle Patch



Patch 4 / Toggle Patch

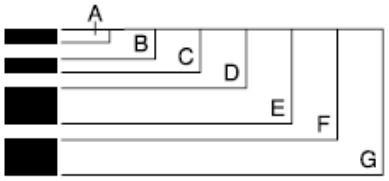


Zone	Inches		Millimeters	
	Low Range	High Range	Low Range	High Range
A	0.07	0.09	1.78	2.29
B	0.15	0.17	3.81	4.32
C	0.35	0.37	8.89	9.40
D	0.43	0.45	10.92	11.43
E	0.63	0.65	16.00	16.51
F	0.71	0.73	18.03	18.54
G	0.79	0.81	20.07	20.57

Patch 6



Patch 6



Zone	Inches		Millimeters	
	Low Range	High Range	Low Range	High Range
A	0.07	0.09	1.78	2.29
B	0.15	0.17	3.81	4.32
C	0.23	0.25	5.84	6.35
D	0.31	0.33	7.87	8.38
E	0.51	0.53	12.95	13.46
F	0.59	0.61	14.99	15.49
G	0.79	0.81	20.07	20.57

Patch positioning

Horizontal and vertical placement of the patch code is critical for reliable patch reading. If the patch code is placed improperly on the document, the scanner may fail to read the patch.

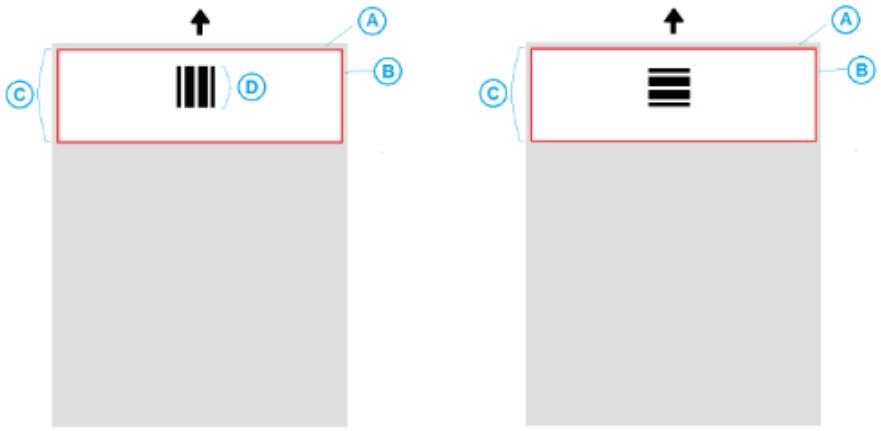
A Vertical patches should be placed such that there is at least 0.5 inches (12.7 mm) of white space between the lead edge of the page (the edge that goes into the scanner first) and the start of the printed bar patterns.

Horizontal patches should be placed such that there is at least 0.25 inches (6.35 mm) of white space between the lead edge of the page (the edge that goes into the scanner first) and the start of the printed bar patterns.

B There must be at least 0.25 inches (6 mm) of space between the patch code and the edge of the document.

C The patch reading window ends 2.0 inches (50.8 mm) from the lead edge of the document. Horizontal patches must not extend beyond the patch window.

D For vertical patches at least 0.75 inches (19 mm) of the patch code must appear within the patch reading area.



Paper details

- **Paper stock color** — white paper is the most reliable choice for patch code reading. If you want to make the patch pages more visible to operators or people who prepare the documents for scanning, then you can use bright colors for the paper stock. Light yellow paper or a light pastel color that reflects at least 65% of the light source should work well. Use of dark color paper stock for patch pages may lead to unreliable patch reading.
- **Print** — the patch bars should always be printed in black. The printed black bars must reflect less than 20% of the light source. Caution should be used when photocopying patches. Photocopiers tend to automatically scale the document which can effect the size of black bars and white spaces, thus altering the print specifications. A photocopier with the scale set to 100% should be acceptable for the i5850 Scanner.
- **Paper size** — the length and width of the patch pages should at least 5.5 inches (139.7 mm).
- **Paper weight** — if you want to reuse the patch pages after sorting, then the paper weight needs to be stiff enough to successfully fly into Stack #2. For more information refer to the section entitled, “Recommended paper specifications” earlier in this chapter.

7 Maintenance

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This chapter describes the required cleaning and maintenance procedures for the *Kodak* i5000 Series Scanners. The frequency of these procedures will vary with different scanning environments, paper types and image processing requirements. High volumes of scanning will demand more frequent cleaning of the scanner and more frequent replacement of consumables. Lower scanning volumes will allow longer times between these activities. Refer to the “Cleaning frequency chart” on the next page for cleaning guidelines. However, you will need to determine what works best for you. Many years of production scanning experience has proven that properly cleaning and maintaining your scanner will result in scanning more paper in less time with less issues. A properly maintained i5000 Series Scanner will provide years of trouble-free operation.

Scanner consumables (tires, pre-separation pads, etc.) and cleaning supplies are available from your scanner supplier. Consumables are sold in kits of various sizes. The kits contain the proper mix of tires, rollers, and pre-separation pads so you can easily replace them at the recommended rate. For example, only replacing the tires and never replacing the separation roller will eventually minimize scanner performance. Replacing the consumables at the recommended frequency will ensure the best performance.

NOTE: The illustrations in this section show the i5200/i5600/i5200V/i5600V Scanner. All adjustments are the same for the i5800/i5850 Scanners unless otherwise noted.

Cleaning frequency chart

A recommended cleaning sequence includes vacuuming the scanner transport, cleaning the residue from the feed module tires, separation roller tires and drive rollers and cleaning the imaging guides.

Use the chart below as a guide to how frequently you should clean your scanner.

Procedure	Start of day	Middle of shift	Start of new shift
Vacuum output tray and input areas (input elevator and transport)	x		
Clean all rollers	x		x
Vacuum transport area	x	x	x
Clean imaging guides	x	x	x
Run transport cleaning sheet	x		x

Cleaning tools and materials

Use only these cleaning tools and materials when performing routine maintenance on your scanner. Use of any other cleaning materials could damage your scanner.

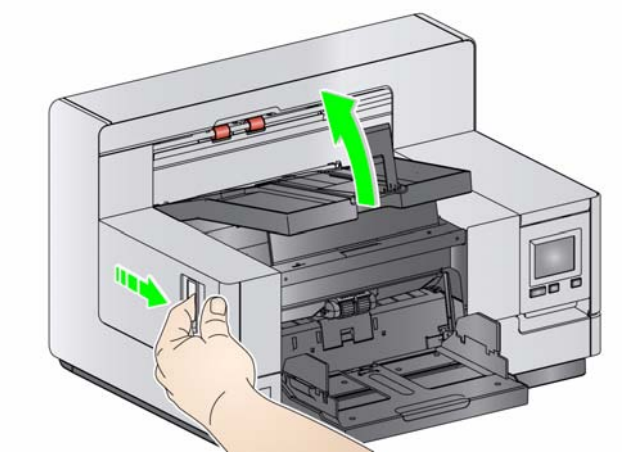
- *Kodak Digital Science* Transport Cleaning Sheets
- *Kodak Digital Science* Roller Cleaning Pads
- Staticide wipes for *Kodak* Scanners
- A vacuum cleaner with attachments

Optionally:

- Brillianize Detailer wipes
- Lint-free cloth

Opening the scanner cover

1. Remove any documents from the input elevator and output tray.
2. Pull the scanner cover release latch forward. The scanner cover will open partially. Raise the cover up to fully open the cover for access to the internal components.



3. When finished cleaning the scanner or replacing a consumable, close the scanner cover with both hands.

Cleaning procedures

Cleaning your scanner and performing preventative maintenance on a regular basis is required to ensure the best possible image quality.

Some document types generate more paper dust and debris and may require more frequent cleaning.

Before cleaning your scanner or replacing consumables, review the following information:

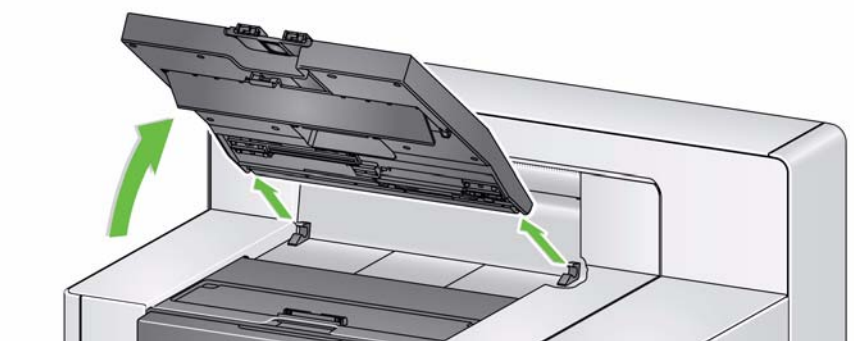
- Some debris from the rubber tires on the feed module and separation roller is normal. Tire debris does not always mean that the tires are worn or damaged. After cleaning, inspect the tires for wear, replace if needed and replace the separation roller or feed module if necessary.
- When cleaning rollers/tires, allow the rollers/tires to dry completely before scanning.
- Use only the recommended cleaning supplies. Using unapproved cleaning fluids or solvents may damage the rubber tires.
- Do not use cleaners in confined areas, use with adequate ventilation.
- Do not use cleaners on hot surfaces. Allow surfaces to cool to ambient temperature before use.
- Do not use canned/compressed air. Use of compressed air may cause dust to be forced into the scanner's imaging system and lodge in an area that causes image quality issues and cannot be cleaned without removing the camera.
- Do not use flammable compressed aerosols on or around the scanner.
- In addition to the recommended cleaning supplies, you may use a vacuum cleaner to remove debris from the scanner.
- Staticide wipes contain isopropanol which can cause eye irritation and dry skin. Wash your hands with soap and water after performing maintenance procedures. Refer to the Material Data Safety Sheet (MSDS) for more information. The MSDS is available on the website at: www.kodakalaris.com/go/MSDS.

  NOTE: To access the MSDS, you will need to provide the catalog number or keyword of the supply. See "Supplies and consumables" later in this chapter for catalog numbers.

- The roller cleaning pad contains sodium lauryl ether sulfate and sodium silicate which can cause eye irritation. Refer to the MSDS for more information.

Vacuuming the output tray and input elevator

1. Power down the scanner.
2. Remove the output tray.

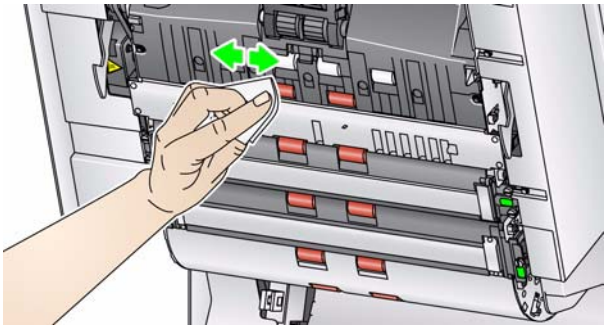


3. Thoroughly vacuum the output tray area and the input elevator area.

Cleaning the rollers

Cleaning the rollers includes all of the rollers in the transport area, the separation roller tires and the feed module tires.

1. Open the scanner cover.
2. Manually rotate and wipe the rollers with a roller cleaning pad.

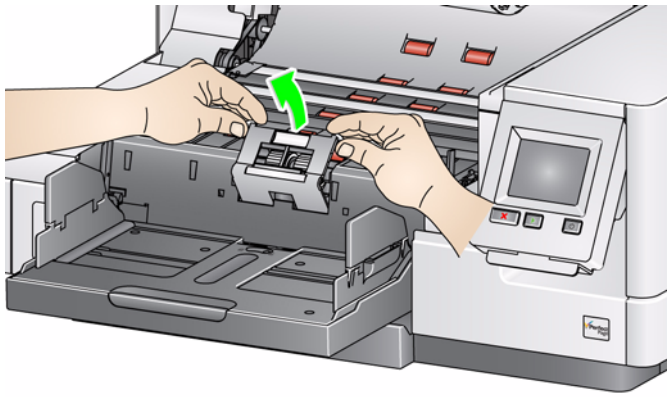


3. Dry the rollers with a lint-free cloth.

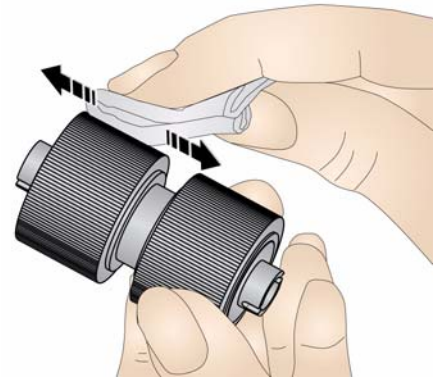
Cleaning the separation roller tires

4. Pull the separation roller cover forward and remove the separation roller.

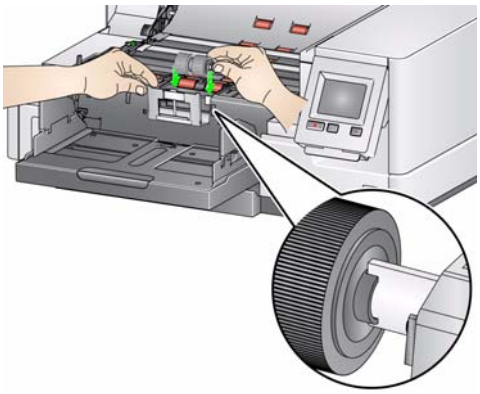
   NOTE: The separation roller cover is spring-loaded. Hold the separation roller cover back until you remove the separation roller, then gently lower the separation roller cover back in place.



5. Manually rotate and wipe the separation roller tires with a roller cleaning pad. For best results wipe parallel to the ribs in order to remove any residue between the ribs.

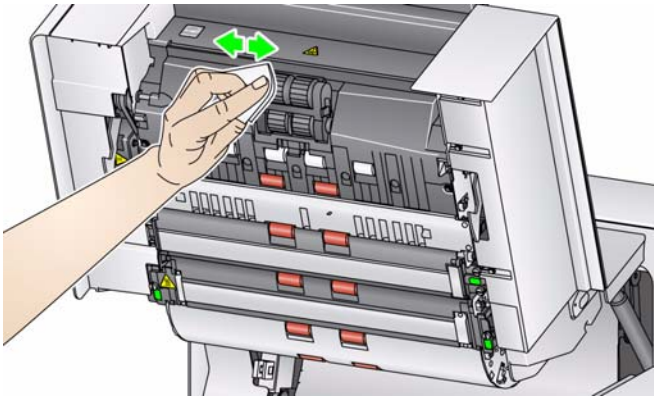


6. Inspect the tires. If the tires show signs of wear or damage, replace the tires. See “Replacement procedures” later in this chapter.
7. Reinstall the separation roller by aligning the slots on the separation roller with the holders.



Cleaning the feed module tires

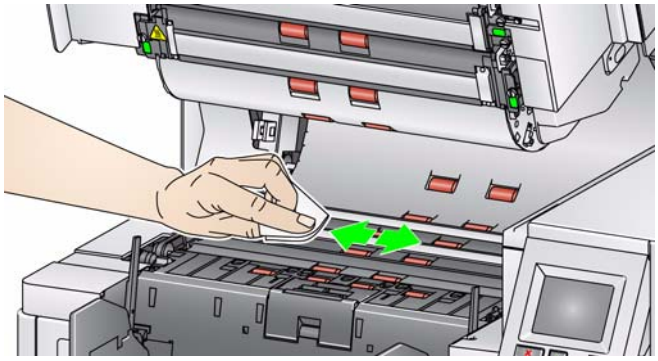
8. Clean the feed module tires by manually rotating and wiping the feed module tires with a roller cleaning pad. For best results wipe parallel to the ribs in order to remove any residue between the ribs. You do not need to remove the feed module to clean the tires.



9. Inspect the tires. If the tires show signs of wear or damage, replace the feed module tires. See “Replacement procedures” later in this chapter.

Cleaning the flippable white background strips

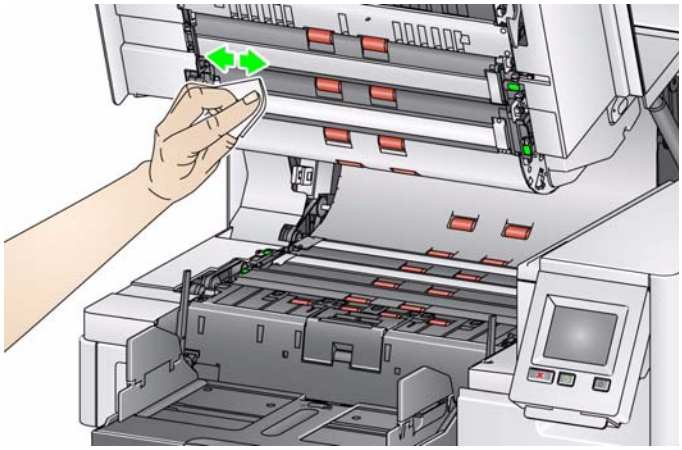
10. Wipe the upper and lower background strips with a Staticide wipe or a Brillianize Detailer wipe.



11. Wipe the upper and lower background strips again with an **almost-dry** Staticide wipe or a clean lint-free cloth to remove any streaks.

Cleaning the imaging guides

12. Wipe the upper and lower imaging guides with a Staticide wipe.



13. Wipe the upper and lower imaging guides again with an **almost-dry** Staticide wipe to remove any streaks.
14. Close the scanner cover.
15. When finished with all cleaning procedures, turn on the scanner.

Running a transport cleaning sheet

The transport should be cleaned with a transport cleaning sheet fed several times.

1. Remove the wrapping from the transport cleaning sheet.
2. Adjust the input elevator and output tray side guides to the widest position.
3. Place the transport cleaning sheet in the center of the input elevator in landscape orientation with the adhesive side up.
4. Scan the transport cleaning sheet.
5. Remove the transport cleaning sheet from the output tray and place it in the center of the input elevator in landscape orientation with the adhesive side down and rescan.
6. Repeat Steps 3 - 5 until the rollers are clean.

NOTE: When the transport sheet gets dirty and/or loses its tackiness, discard it and use a new one.

Final cleaning steps

When finished running the transport cleaning sheet:

1. Open the scanner cover.
2. Wipe the upper and lower imaging guides with a lint-free cloth.
3. Close the scanner cover and scan a test image to ensure image quality.

Replacement procedures

This section provides procedures for replacing the following parts. Use the list below as a guideline for frequency of replacement.

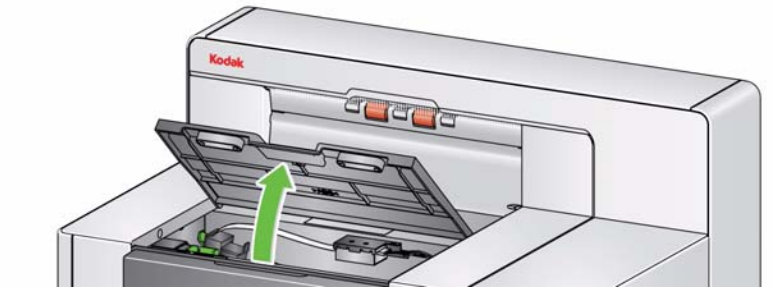
- **Feed module tires and separation roller tires, including the *Kodak* Ultra-lightweight Feed Module** — tire life will vary depending upon paper types, environment and cleanliness. Nominal tire life is approximately 500,000 documents; results will vary. Degradation of feeder performance, multiple feeds, stoppages, etc. indicate a need to change tires. Separation roller tires may wear faster than feed module tires. When replacing feed module tires, all four tires should be replaced at the same time. When replacing separation roller tires, both tires should be replaced at the same time.
- **Feed module and separation roller, including the *Kodak* Ultra-lightweight feed module and separation roller** — it is recommended that you install a new feed module and separation roller every 4th tire change. Install a new feed module and separation roller at the same time.
- **Pre-separation pad, including the *Kodak* Ultra-lightweight pre-separation pad** — it is recommended that you change the pre-separation pad at least as often as you change the feed module/separation roller tires.
- **Imaging guides** — replace when the imaging guides are heavily scratched and defects show in the image.

NOTE: The illustrations in this section may be slightly different depending on the consumable you are changing. For example, the ultralightweight feed module looks slightly different than the standard feed module. The installation procedures, however, are the same.

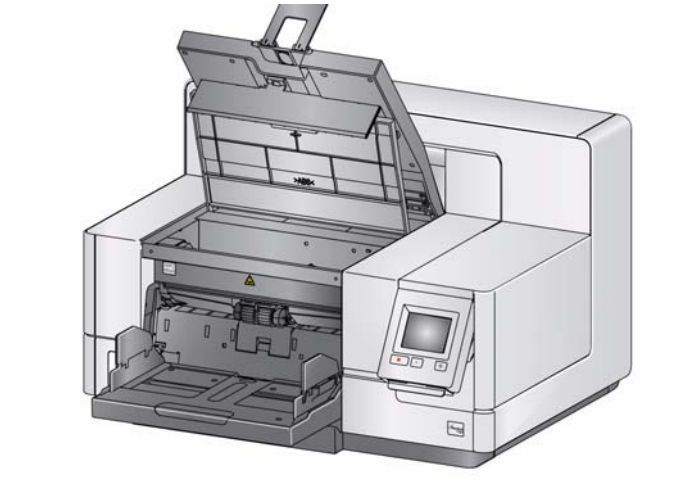
Meters should be maintained by the operator and reset when consumables are changed. The meters do not reset automatically when a consumable is changed. Meters show the number of pages scanned. For more information on viewing and using the Maintenance meters see the section entitled, “Viewing the Maintenance meters” in Chapter 3.

Replacing the feed module or feed module tires

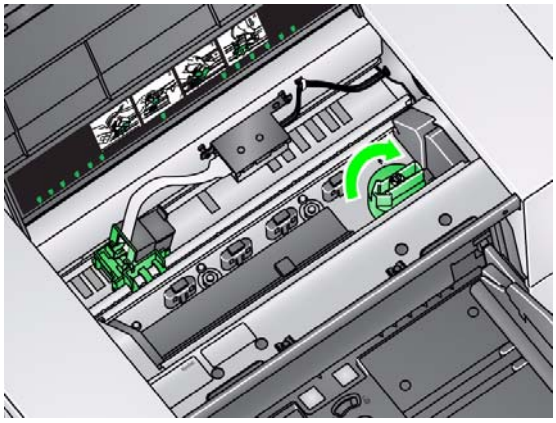
1. Remove the output tray.
2. Lift up and open the printer access cover.



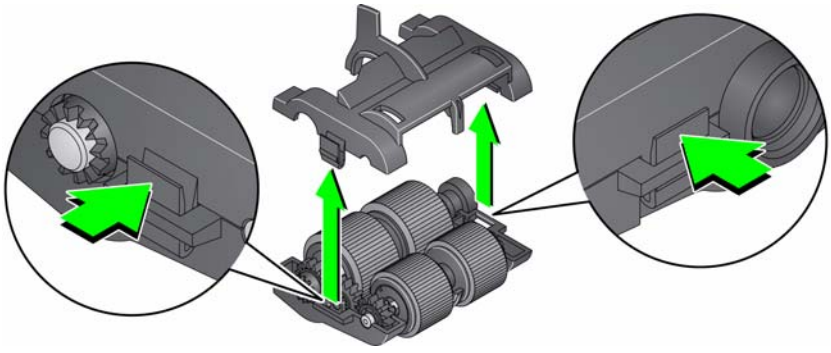
NOTE: If you do not want to remove the output tray, you can lift the front of the output tray, then lift the printer access cover and position the printer access cover behind the height adjustment tab.



3. Turn the feed module release knob to the *Unlock* symbol and release the feed module.

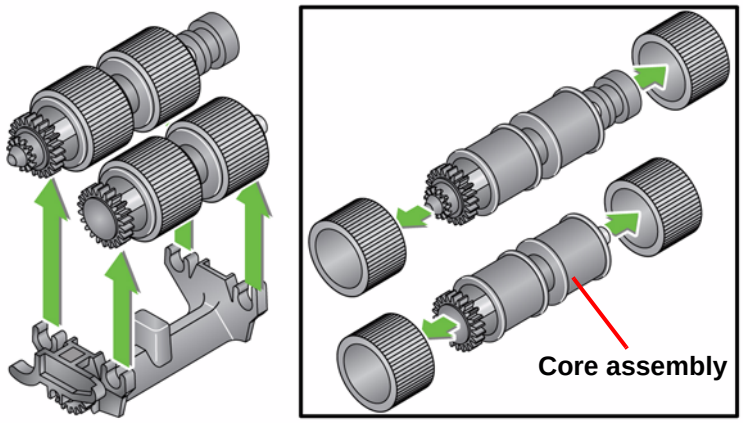


4. If you are just replacing the feed module, go to Step 11. If you are replacing the tires, proceed with Step 5.
5. With one hand, press the locking tabs (one on each side) while holding the lower housing with the other hand. Pull the upper housing up and away from the rollers.



6. Remove both rollers.

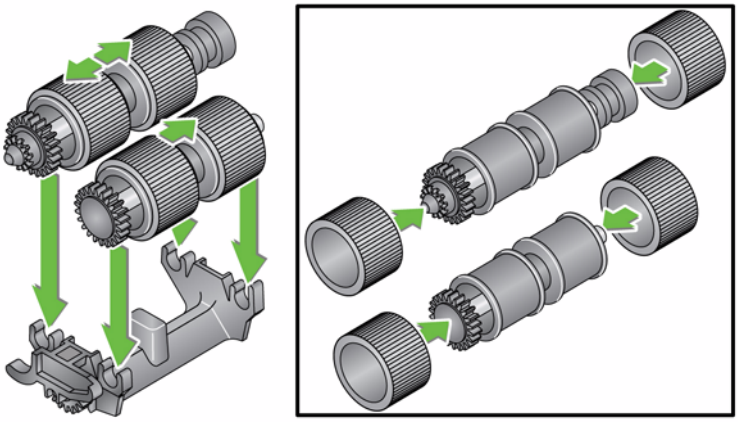
7. Remove each tire by sliding the tire off the core assembly.



8. Install each new tire by gently pulling it over the core assembly. The tires do not need to be installed in any specific orientation.

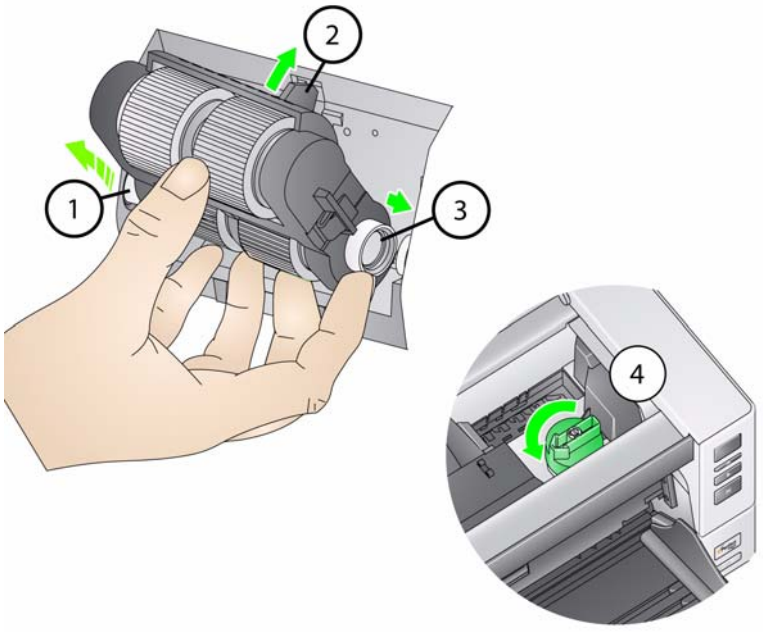
   IMPORTANT:Do not overstretch the tire; it may tear.

9. Replace each roller in the lower feed module housing and align the tabs on the upper housing with the slots on the lower housing.



10. Press the upper and lower housings together until they snap into place.

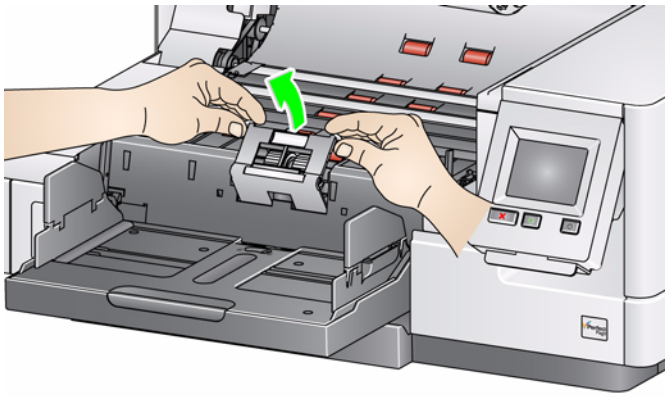
11. Insert the pin on the left side of the feed module with the rod (1); align the upper tab with the slot (2); align the pin on the right side of the feed module with the rod (3) and turn the green feed module release knob so that it points to the *Locked* symbol on the left (4) to re-engage the feed module. Verify that the feed module is securely in place and moves freely after you install it.



12. Close the scanner cover and the printer access cover.
13. Reinstall the output tray.
14. When finished, access the Maintenance meters on the Operator Control Panel and touch the **Reset** icon to reset the Feed Tires/Feed Module meter.

Replacing the separation roller or separation roller tires

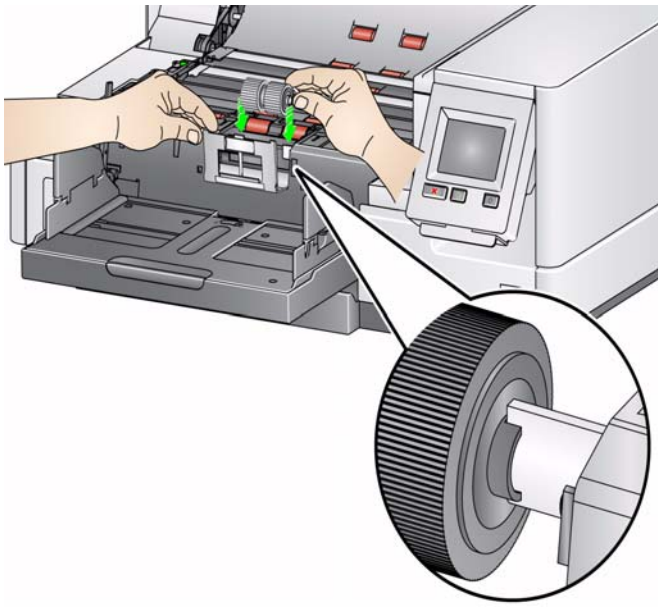
1. Open the scanner cover.
2. Pull the separation roller cover forward and remove the separation roller.



NOTE: The separation roller cover is spring-loaded. Hold the separation roller cover back until you remove the separation roller, then gently lower the separation roller cover back in place.

If you want to replace the separation module, do Steps 3 and 4. If you want to replace the separation roller tires, go to Step 5.

3. Insert the new separation roller. Be sure to line up the slots on the separation roller with the holders.



4. Gently release the separation roller cover back in place and close the scanner cover.

To replace the tires:

5. Replace each tire by sliding the tire off the core.
6. Install each new tire by gently pulling it over the core.

   IMPORTANT:Do not overstretch the tire; it may tear.

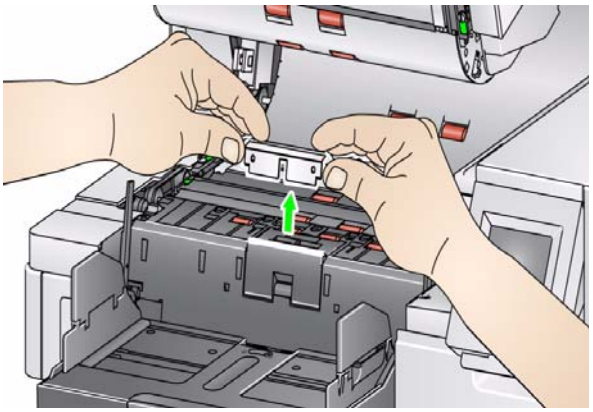
7. Reinstall the separation roller. Be sure to line up the slots on the separation roller with the holders.
8. Lower the separation roller holder back in place.
9. Close the scanner cover.
10. When finished, access the Maintenance meters on the Operator Control Panel and touch the **Reset** icon to reset the Separation Roller Tires/ Separation Roller meter.

Replacing the pre-separation pad

Change the pre-separation pad when the frequency of multifed documents increases.

1. Open the scanner cover.
2. Remove the pre-separation pad by lifting the pad up and out of position.

   NOTE: The pre-separation pad fits snuggly in place; therefore, a little force may be required to remove it.



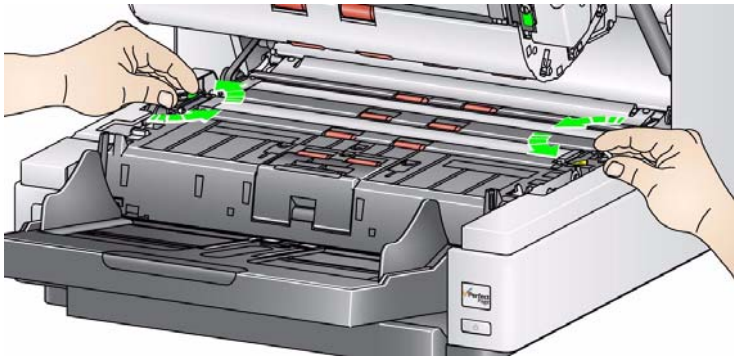
3. Install the new pre-separation pad. Be sure it snaps into place.
4. Close the scanner cover.
5. When finished, access the Maintenance meters on the Operator Control Panel and touch the **Reset** icon to reset the Pre-separation pad meter.

Replacing the imaging guides

The imaging guides should be replaced when they are heavily scratched and defects show in the image.

NOTE: Handle the imaging guides carefully so as to not put fingerprints on the guides.

1. Open the scanner cover.
2. Using the screwdriver provided with the scanner, loosen the screws on each end of the lower imaging guide and remove it from its position.

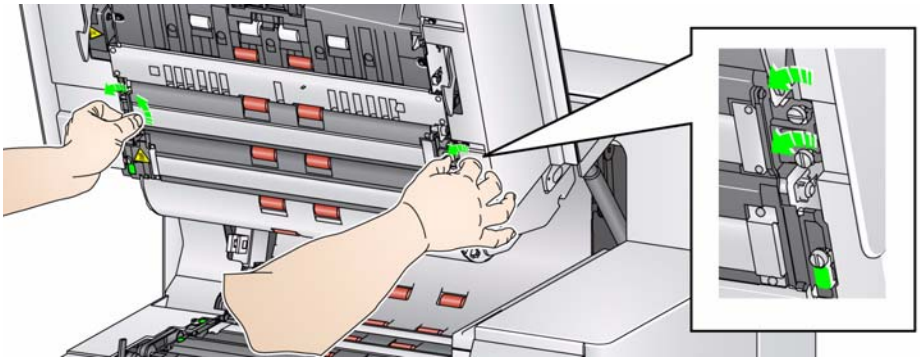


3. Install the new imaging guide and tighten the screws to secure the imaging guide.
4. Repeat Steps 2 and 3 to replace the upper imaging guide.
5. Close the scanner cover.

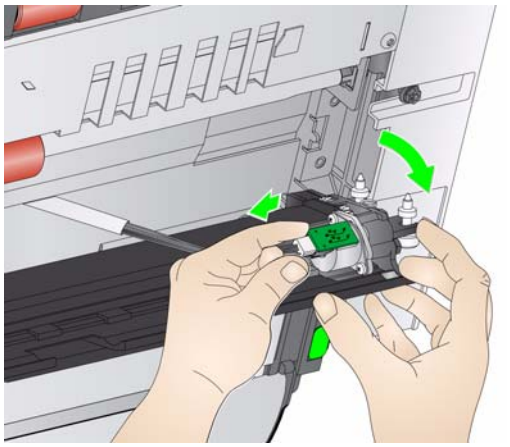
Replacing the flippable white background strip(s)

In the rare case that you may need to replace the flippable white background strip(s), follow the procedures below.

1. Turn off the scanner.
2. Open the scanner cover.
3. Using your fingers or the supplied screwdriver, loosen the two screws on each end of the upper background strip and remove it from its position.



4. Disconnect the background strip connector.



5. Connect the new background strip connector with the cable. Be sure it is securely in place.
6. Install the new background strip and tighten both screws on each side to secure the background strip.

   NOTE: Be sure to align the springs over the tabs in the scanner frame. Verify that the background moves up and down freely.

7. Repeat Steps 2 - 5 to replace the lower background strip.
8. Close the scanner cover.

Supplies and consumables

Contact your scanner supplier to order supplies.

Supplies/Consumables	CAT No.
Kodak Feeder Consumables Kit	832 7538
Kodak Extra-Large Feeder Consumables Kit	838 7938
Kodak Extra-Extra-Large Feeder Consumables Kit	146 2415
Kodak Imaging Guide Set (without Enhanced Printer)	834 8054
Kodak Imaging Guide Set (with Enhanced Printer)	871 4438
Kodak Flippable White Background (without Enhanced Printer)	808 8239
Kodak Flippable White Background (with Enhanced Printer)	800 0853
Kodak i5850 Flippable White Background (without Enhanced Printer)	166 7641
Kodak i5850 Flippable White Background (with Enhanced Printer)	161 2605
Kodak Feeder Kit for Ultralightweight Paper	844 5280
Manual Feed Shelf (for i5200/i5600 Scanners)	167 3953
Manual Feed Shelf (for i5800/i5850 Scanners)	169 4256
Kodak Dual Controlled Stacking Accessory	150 9546
i5850 Enhanced Printer Accessory (Front and Rear)	121 3743
Enhanced Printer Accessory	140 8756
Kodak Printer Ink Blotters	125 7633
Enhanced Printer Black Ink Cartridge	818 3386
Enhanced Printer Red Ink Cartridge	159 6832
Green (HP-C6602G) and Blue (HP-C6602B) ink cartridges can also be used, however they are only available from an Hewlett-Packard reseller.	N/A
Enhanced Printer: Ink Cartridge Carrier	176 3218
66.04 cm (26 in.) document extenders (qty 1 per box)	183 3946
76.2 cm (30 in.) document extenders (qty 1 per box)	162 6803
86.36 cm (34 in.) document extenders (qty 1 per box)	149 8476
Kodak Digital Science Transport Cleaning Sheets (qty 50)	169 0783
Kodak Digital Science Roller Cleaning Pads (qty 24)	853 5981
Staticide Wipes for *Kodak* Scanners (qty 144)	896 5519
Brillianize Detailer Wipes / for *Kodak* Scanners	826 6488

8 Troubleshooting

Contents

Problem solving 8-1
Power button/Indicator lights 8-3
Upgrading software 8-3
Contacting Service 8-3

Problem solving

Use the chart below as a guide to check possible solutions to problems you may encounter when using the *Kodak* i5000 Series Scanner.

Problem	Possible Solution
Documents are jamming or multiple documents are feeding	Make sure that: • all documents meet specifications for size, weight, and type, etc. as outlined in Appendix A, *Specifications*. • all staples and paper clips have been removed from the documents. • all rollers and tires are clean and the separation roller and feed module are properly installed. See the procedures in Chapter 7, *Maintenance*. • you check the Maintenance Meters on the Operator Control Panel to see if it is time to change the rollers and/or tires. • the leading edges of all batched documents are centered in the feeder so that each document will come in contact with the feed rollers. • documents with an unusual texture or surface are fed manually or using another **Document Handling** setting (e.g., Fragile, Thick, Thin). See the *Scanning Setup Guide* for the ISIS Driver, TWAIN Datasource or VRS for more information. • the gap release toggle switch is not pushed in. • fan your documents to aid in document feeding. • select **Omit Multifeed** on the Scanning screen to ignore multifeed detection if scanning documents with a known multifeed condition. **To remove a document jam:** • Remove any documents from the feeder area. • Open the scanner cover. • Locate the jammed document(s) and remove it. • Close the scanner cover and resume scanning.
Long documents are not feeding or are jamming	• Make sure the input elevator and output tray extenders are pulled out to provide support for long documents or use the optional document extenders. • **i5200/i5600/i5800/i5850 Scanners:** Make sure the **Maximum Document Length** is set high enough. Maximum Document Length will vary based on resolution and scanning depth. See Chapter 3, “Maximum document length” for more information. • **For i5200V/i5600V**: Maximum Document Length is always set at 40 inches. It is not user-settable. • Set a lower output resolution or an alternate output format.

Problem	Possible Solution
Image quality is poor or has degraded	Make sure that the scanner and imaging guides are clean. Refer to Chapter 7, *Maintenance*.
"False" paper jams or multifeeds are occurring	• Make sure that the transport area is clean. • Select a different **Document Handling** setting. See the *Scanning Setup Guide* for the ISIS Driver, TWAIN Datasource or VRS for more information. • Adjust the **Multifeed Sensitivity** setting in your scanning application. See the *Scanning Setup Guide* for the ISIS Driver, TWAIN Datasource or VRS for more information.
The scanner will not scan/ feed documents	Make sure that: • the power cord is plugged in and the power is on. • the power button has been pushed on and the green LED is lit. • the scanner cover is completely closed. • documents are making contact with the feed module and are covering the paper present sensor. • documents meet specifications for size, weight, and type, etc. • for thicker documents, toggle the gap release toggle switch during feeding. • you check the feed module and separation roller and pre-separation pad for signs of wear, and replace these parts if necessary. You can also power the scanner down and power it up again.
Scanner is running slow	• Your host PC may not meet the minimum requirements for the scanner. See Appendix A, *Specifications*. • Some image processing functions may reduce scanner speed. • Resolution (dpi) setting may be set too high. • Compression setting may not be set high enough. • Your virus software may be scanning all TIFF or JPEG files. • Ensure you are scanning to a local drive.
Documents are skewed during scanning	Make sure that: • the input elevator side guides are adjusted to fit the documents being fed. • documents are being fed perpendicular to the feed module. • all staples and paper clips have been removed from the documents. • the feed module, separation roller, and drive rollers are clean. • the scanner cover is firmly closed.
Scanner pauses excessively during scanning	Make sure that: • the host PC meets minimum requirements for scanning. See Appendix A, *Specifications*. • there is enough free space on the hard disk drive. • all other applications are closed. • you are using a USB 2.0 connection. You can also try changing the scanning options (compression, resolution, output format, etc.) in your scanning application.
Roller marks or streaks appear on documents after scanning	Clean the feed module, separation roller and tires. Refer to Chapter 7, *Maintenance*.
Vertical lines appear on the image	• Clean the imaging guides. Refer to Chapter 7, *Maintenance*. • Enable the **Streak Filter** option in your scanning application or increase the aggressiveness.

Power button/ Indicator lights

Steady green: the scanner is in Ready mode.

Flashing yellow: the scanner is in Low Power mode.

Steady yellow: the scanner is in Standby mode.

Upgrading software

Kodak Alaris updates drivers and firmware to correct issues and add new features. If you encounter errors, verify that you are running the latest scanner software version before you call Technical Support. Go to: www.kodakalaris.com/go/disupport, access **i5000 Software and Drivers** and download the most recent upgrade.

Contacting Service

1. Visit www.kodakalaris.com/go/dicontacts to obtain the most current phone number for your country.
2. When calling, please have the following information ready:
   - A description of your problem.
   - The scanner model and serial number.
   - Computer configuration.
   - Scanning application you are using.

Appendix A Specifications

Scanner Type/Speed	• **i5200/i5200V Scanner**: desktop duplex color scanner that scans up to 140 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation), Normal Document Handling A4 size documents. • **i5600/i5600V Scanner**: desktop duplex color scanner that scans up to 170 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation), Normal Document Handling A4 size documents. • **i5800/i5850 Scanner**: floor-standing duplex color scanner that scans up to 210 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation), Normal Document Handling A4 size documents.
Scanning Technology	Dual CCD
Output Resolutions	100, 150, 200, 240, 300, 400, 500 and 600 dpi
File Format Output	TIFF, JPEG
Scan Area	**i5200/i5600/i5800/i5850**: Scans up to 30.5 x 457.2 cm (12 x 180 inches) **i5200V/i5600V:** Scans up to 30.5 x 101.6 cm (12 x 40 inches).
ADF Capacity	750 sheets of 20 lb. (80 g/m^2) bond paper
Recommended Daily Volume	Unlimited
Illumination	LED
Electrical Requirements	100 - 240 V (international), 50/60 Hz
Scanner Dimensions ***i5200/i5600 Scanners*** ***i5200V/i5600V Scanners***	**With input elevator open:** **Height**: 43.4 cm (17.1 in.) **Width**: 69.3 cm (27.3 in.) **Depth**: 65.3 cm (25.7 in.) **With input elevator closed:** **Height**: 43.4 cm (17.1 in.) **Width**: 69.3 cm (27.3 in.) **Depth**: 51 cm (20.1 in.)
i5800/i5850 Scanners	**Height**: 106.7 cm (42.0 in.) - 130.8 cm (51.5 in.) **Width**: 69.3 cm (27.3 in.) **Depth**: 82.3 cm (32.4 in.)
Scanner Weight (Unpacked)	**i5200/i5600/i5200V/i5600V Scanners**: 57.6 kg (127 lb.) **i5800/i5850 Scanners**: 185.9 kg (410 lb.)
Scanner Weight (Packed)	**i5200/i5600/i5200V/i5600V Scanners**: 69.0 kg (152 lb.) **i5800/i5850 Scanners**: 257.2 kg (567 lb.)
Host Connection	Hi-speed USB 2.0; USB 3.0 compatible
Operating Temperature	15°C to 35°C (59°F to 95°F)
Humidity	15 to 76% relative humidity
Environmental Factors	Energy Star qualified scanners

Power Consumption - Scanner	**Idle - not imaging**: <115 watts (all models) **Running - imaging**: <215 watts (i5200/i5600/i5200V/i5600V Scanners) <250 watts (i5800 Scanner) **Low Power mode**: <4 watts **Standby**: <1.0 watts
Acoustic Noise (Sound Pressure level at Operator Position)	**Scanning**: less than 67 dB(A) **Standby**: less than 42.3 dB(A)
Electrical rating	**i5200/i5600/i5200V/i5600V**: 1/N/PE ~ 100 -240 VAC 2.8 - 1.5A 50/60 Hz **i5800/i5850**: 1/N/PE ~ 100 -240 VAC 3.3 - 1.5A 50/60 Hz

System requirements

Following is the recommended system configuration to run *Kodak* i5000 Series Scanners.

For i5200/i5600/i5800/i5850 Scanners

- PC: Intel® Core™ 2 Duo 3GHz, 4GB RAM, USB 2.0 or higher

For i5200V/i5600VScanners

- PC: Intel® Core™ Quad, 3GHz, 4 GB RAM, USB 2.0 or higher

Supported operating systems:

- Microsoft Windows XP (Professional); SP2
- Microsoft Windows Vista; SP1
- Microsoft Windows Vista x64 Edition
- Microsoft Windows 7 (32- and 64-bit)
- Microsoft Windows 8 (32- and 64-bit)
- Microsoft Windows 8.1 (32- and 64-bit)

Included Drivers:

- Windows operating systems: TWAIN, ISIS, WIA
  VRS (for *Kodak* i5200V and i5600V Scanners only)

Appendix B Warranty - US and Canada only

Congratulations on the purchase of a *Kodak* Scanner. *Kodak* Scanners are designed to provide end users with the highest performance and reliability. All *Kodak* Scanners are covered by the following Limited Warranty.

Limited Warranty for *Kodak* Scanners

Kodak Alaris Inc. provides the following Limited Warranty on *Kodak* Scanners (excluding spare parts and consumables) distributed by Kodak or through Kodak's authorized distribution channels:

Kodak warrants that a *Kodak* Scanner, from the time of sale through the Limited Warranty period applicable to the Product, will be free of defects in materials or workmanship and will conform to the performance specifications applicable for the particular *Kodak* Scanner.

All *Kodak* Scanners are subject to the Warranty Exclusions described below. A *Kodak* Scanner found to be defective or which does not conform to the product specifications will be repaired or replaced with new or refurbished product at Kodak's option.

Purchasers may determine the applicable Limited Warranty period for the *Kodak* Scanners purchased by calling (800) 822-1414, or by visiting www.kodakalaris.com/go/disupport or by reviewing the Limited Warranty Summary Card enclosed with the *Kodak* Scanner.

Proof of purchase is required to demonstrate eligibility for warranty service.

Warranty exclusions

Kodak's Limited Warranty does not apply to a *Kodak* Scanner that has been subjected to physical damage after purchase, caused, for example, by casualty, accident, acts of God or transportation, including (a) by a failure to properly package and ship the Scanner back to Kodak for warranty service in accordance with Kodak's then current Packaging and Shipping Guidelines, including failure to replace the shipping restraint prior to shipping, or by a failure to remove the shipping restraint prior to use; (b) resulting from the user's installation, system integration, programming, re-installation of user operating systems or applications software, systems engineering, relocation, reconstruction of data, or removal of the product or any component (including breakage of a connector, cover, glass, pins, or seal); (c) from service, modification or repair not performed by Kodak or a service provider authorized by Kodak or by tampering, use of counterfeit or other non-Kodak components, assemblies, accessories, or modules; (d) by misuse, unreasonable handling or maintenance, mistreatment, operator error, failure to provide proper supervision or maintenance, including use of cleaning products or other accessories not approved by Kodak or use in contravention of recommended procedures or specifications; (e) by environmental conditions (such as excessive heat or other unsuitable physical operating environment), corrosion, staining, electrical work external to the product or failure to provide electro-static discharge (ESD) protection; (f) by failure to install firmware updates or releases available for the product and (g) by such other supplemental exclusions published from time to time online at www.kodakalaris.com/go/disupport or by calling (800) 822-1414.

Kodak provides no Limited Warranty for products purchased from countries other than the United States. Purchasers of products from foreign distribution channels must seek warranty coverage, if any, through the original source of purchase.

Kodak provides no Limited Warranty for products that are purchased as part of a third party manufacturer's product, computer system or other electronic device.

Any warranty for these products is provided by the OEM (Original Equipment Manufacturer) as part of that manufacturer's product or system.

The replacement product assumes the remainder of the Limited Warranty period applicable to the defective product or thirty (30) days, whichever is longer.

Installation Warning and Disclaimer

KODAK WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM THE SALE, INSTALLATION, USE, SERVICING OR IMPROPER FUNCTIONING OF THIS PRODUCT, REGARDLESS OF THE CAUSE. SUCH DAMAGES FOR WHICH KODAK WILL NOT BE RESPONSIBLE, INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF REVENUE OR PROFIT, LOSS OF DATA, DOWNTIME COSTS, LOSS OF USE OF THE PRODUCT, COST OF ANY SUBSTITUTE PRODUCT, FACILITIES OR SERVICES OR CLAIMS OF CUSTOMERS FOR SUCH DAMAGES.

If there is any conflict between other sections of this appendix and the Limited Warranty, the terms of the Limited Warranty prevail.

How to obtain Limited Warranty service

Kodak Scanners are supplied with information on unpacking, setup, installation and operation. Careful reading of the User's Guide will answer most of the technical questions the end user might have regarding proper installation, operation and maintenance of the product. However, should additional technical support be required, you may visit our website at: www.kodakalaris.com/go/disupport or contact: Kodak's Response Center: **(800) 822-1414**

The Response Center is available Monday – Friday (excluding Kodak holidays) 8 a.m. to 5 p.m. (customer local time).

Before placing the call, the eligible purchaser should have the *Kodak* Scanner model number, part number, serial number and proof of purchase available. The eligible purchaser should also be prepared to provide a description of the problem.

Response Center personnel will assist the end user in resolving the problem over the phone. The end user may be asked to run some simple, self-diagnostic tests and report the resulting status and error code messages. This will assist the Response Center in determining if the problem is the *Kodak* Scanner or another component and if the problem can be resolved over the phone. If the Response Center determines a hardware problem exists that is covered either under the Limited Warranty or a purchased Maintenance Agreement, a Return Material Authorization Number (RMA) will be assigned as needed, a service request will be initiated and repair or replacement procedures will follow.

Packaging and shipping guidelines

Purchaser must ship all warranty returns in a method that guarantees full protection of the product from shipping damage. Failure to do so will void the *Kodak* Scanner warranty. Kodak advises the purchaser to keep the original box and packing materials for storing or shipping. Kodak is not responsible for issues related to shipping damage. The purchaser must return only the *Kodak* Scanner. Prior to shipment, purchaser must remove and retain all "add-on" items, (i.e. adapters, cables, software, manuals, etc.). Kodak accepts no responsibility for these items and they will not be returned with the repaired or replacement *Kodak* Scanner. All products should be returned to Kodak in the original shipping container, or an authorized packaging box for the units being returned. Purchaser must install the shipping restraint before the *Kodak* Scanner is shipped. When the original packaging is not available, contact Kodak's Response Center at (800) 822-1414 for part numbers and replacement packaging ordering information.

Return procedure

Eligible purchasers seeking services for *Kodak* Scanners covered under this Limited Warranty must obtain a Return Material Authorization number ("RMA") by calling (800) 822-1414 and within ten (10) business days from the date of issuance of the RMA must return the *Kodak* Scanner to the address designated in the RMA at the end user's own expense and risk, in compliance with Kodak's current Packaging and Shipping Guidelines.

Any defective products or parts replaced by Kodak become the property of Kodak.

Customer responsibility

BY REQUESTING SERVICE, THE ELIGIBLE PURCHASER ACKNOWLEDGES THE TERMS OF THE LIMITED WARRANTY, INCLUDING THE DISCLAIMER AND LIMITATION OF LIABILITY PROVISIONS. PRIOR TO SEEKING SERVICE, THE END USER MUST BACK-UP ANY DATA OR FILES THAT MAY BECOME DAMAGED OR LOST. KODAK IS, WITHOUT LIMITATION, NOT RESPONSIBLE FOR LOST OR DAMAGED DATA OR FILES.

Warranty Service descriptions

Eastman Kodak Company (Kodak) offers a range of service programs to support its Limited Warranty and to assist with the use and care of the *Kodak* Scanner ("Service Methods"). A *Kodak* Scanner represents an important investment. *Kodak* Scanners provide the productivity needed to stay competitive. The sudden loss of this productivity, even temporarily, could seriously affect the ability to meet commitments. Downtime can be very expensive, not just in the cost of the repair but also in time lost. To help alleviate these problems, Kodak may use one of the service methods listed below, depending upon product type, in providing service under its Limited Warranty.

Included with selected *Kodak* Scanners is a Limited Warranty Registration card and a Limited Warranty Summary card. The Limited Warranty Summary card is specific by model. The Limited Warranty Summary card contains important warranty information, including the model number and the Limited Warranty. Refer to the Limited Warranty Summary card to determine the available Service Methods applicable to the particular *Kodak* Scanner.

If the Limited Warranty Registration card or Limited Warranty Summary card cannot be located, additional information may be obtained about the product, including updated warranty and service program information and restrictions, online at www.kodakalaris.com/go/disupport or by phone at (800) 822-1414.

To avoid service delays, Kodak urges end users to complete and return the enclosed Limited Warranty Registration Card at the first opportunity. If you cannot locate the Limited Warranty Registration card, you may register online at www.kodakalaris.com/go/disupport or by phone at (800) 822-1414.

Kodak also provides a variety of service programs that may be purchased to assist with the use and care of the *Kodak* Scanner.

Kodak is committed to providing its customers with quality, performance, reliability and service under the Limited Warranty.

We expect to have a supply of spare parts and consumables for at least 5 years after product manufacture has been discontinued.

On-site service

For the selected *Kodak* Scanner, and after the Response Center verifies a hardware problem, a service call will be opened and logged. An Kodak Field Engineer will be dispatched to the product location to perform repair service if the product is located within the contiguous forty-eight (48) United States, in certain areas of Alaska and Hawaii, and if there are no security, safety or physical requirements that would restrict the Field Engineer's access to the scanner. For additional information on service areas, visit our website at: www.kodakalaris.com/go/disupport. On-Site Service will be provided between the hours of 8 a.m. and 5 p.m. local time, Monday through Friday (excluding Kodak holidays).

AUR

AUR may be one of the easiest and most comprehensive service offerings in the industry. In the unlikely event of a product defect, for eligible purchasers of certain *Kodak* Scanners, Kodak will replace that product within two business days.

The AUR provides advance replacement on specific failed or broken *Kodak* Scanner. To be eligible to take advantage of the AUR, the eligible purchaser must obtain an RMA number. The RMA number should be kept in the event that the status of the replacement product needs to be checked. The eligible purchaser will be asked for the address where the replacement product is to be shipped. The eligible purchaser will also be provided packing and shipping instructions for the malfunctioning product. The eligible purchaser will then receive a replacement product within 2 business days after the service call initiation and Kodak's receipt of the signed agreement. The malfunctioning product must be received by Kodak within ten (10) days of the end user's receipt of the replacement product or the end user will be charged the list price of the replacement product. Shipment of replacement Imaging Product will be made at Kodak's expense and choice of freight carrier. Shipments not made under Kodak's directions and choice of freight carrier may void the Limited Warranty.

Before the product is returned to Kodak, be sure to remove all accessories (which include power cord, documentation, etc.) that are not covered by the Limited Warranty. The box and packaging in which the replacement product was shipped must be used to return the malfunctioning product. If the malfunctioning product is not returned in the box and packaging in which the replacement product was shipped the Limited Warranty may be voided. The Return Material Authorization Number ("RMA") must be clearly marked on the outside of the box to ensure proper receipt and credit of the defective product.

Depot service

If the *Kodak* Scanner is not eligible for Advance Exchange or On-Site Service, an eligible purchaser may utilize our Depot Repair Service. The eligible purchaser will be instructed to ship the product to the nearest authorized Depot Repair Center. Product must be shipped at the eligible purchaser's risk and expense to the repair center. Before the product is returned to the repair center, be sure to remove all accessories (which include power cord, documentation, etc.) not covered by the Limited Warranty. All products should be returned to Kodak in the original shipping container, or in a recommended packing box. The *Kodak* Scanner must have the shipping restraint installed before it is shipped. When the original packaging is not available, contact Kodak's Response Center at (800) 822-1414, for ordering information. Eligible purchasers seeking services for *Kodak* Scanners must obtain a Return Material Authorization number ("RMA") by calling (800) 822-1414, and within ten (10) business days from the date of issuance of the RMA must return the *Kodak* Scanner to the address designated in the RMA at the end user's own expense and risk. The Return Material Authorization Number ("RMA") must be clearly marked on the outside of the box to ensure proper receipt and credit of the defective product.

Upon receipt of the product, the repair center will repair product within ten (10) business days. The repaired product will be shipped back two-day express mail at no expense to the eligible purchaser.

Important restrictions

Eligibility: The Advance Exchange Program and the Depot Service are available to eligible purchasers in the fifty (50) United States, and On-Site Service is available in the contiguous forty-eight (48) states and in certain areas of Alaska and Hawaii for products purchased from authorized distributors of Kodak. The *Kodak* Scanner will be ineligible for any service under warranty if the product falls under any of Kodak's then-current Warranty Exclusions, including a purchaser's failure to return defective products to Kodak in compliance with Kodak's then current Packaging and Shipping Guidelines. Persons are only considered "eligible purchasers" or "end users" if they originally purchased the *Kodak* Scanner for their own personal or business use, and not for resale.

Consumables: Consumables are items that wear out under normal use and must be replaced by the end user as needed. Consumables, supplies, other expendable items and those items identified as being the user's responsibility in the User's Guide are not covered under the Limited Warranty.

If any of the above excluded parts or services are required, they may be available through an authorized service provider at their hourly rates and at terms then in effect.

Any defective products or parts replaced by Kodak become the property of Kodak.

Contacting Kodak

For Information on *Kodak* Scanners:

Website: www.kodakalaris.com/go/docimaging

For U.S. Service, Repair and Technical Assistance by Telephone:

Telephone technical support is available Monday-Friday between the hours of 8 a.m. to 5 p.m. (customer local time) excluding Kodak holidays. Phone: (800) 822-1414

For Technical Documentation, Service Program Information and FAQ's available 24 hours a day:

Website: www.kodakalaris.com/go/docimaging

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