

Kodak S5000 Series Scanners

KODAK S5160 Scanner KODAK S5180 Scanner KODAK S5210 Scanner

User's Guide



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Safety

User Precautions

- Place the desktop scanner (models S5160/S5180) on a sturdy, level work surface capable of supporting 61.2 kg (135 lbs) and leave adequate clearance on all sides of the scanner. The floor scanner (model S5210) weighs 450 lbs.
- When relocating the scanner, it is recommended that at least 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. Failure to do so may cause electrical shock or fire.
- Do not damage, knot, cut or modify the power cord or use a damaged power cord. This may cause electrical shock or fire.
- 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 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 Alaris 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.
- Safety Data Sheets (SDS) for chemical products are available on the Kodak Alaris website at: www.KodakAlaris.com/go/ehs consumable you want the Safety Data Sheet for.
- 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.
- This equipment is not suitable for use in locations where children are likely to be present.

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.

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.

Battery Information

This product contains an alkaline battery. This battery can only be removed or replaced by a qualified Service Engineer.

CAUTION:

- Risk of explosion if the battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

Warning labels



CAUTION: Moving parts, avoid contact.



CAUTION: Hot surface, avoid contact.

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).]

Privacy

Cookie Disclosures

The following cookies may be deployed on the browser-enabled device used to configure the S5000 scanners:

Name: loginId

Host: <IP Address of Scanner>

Duration: Session

Type: First-Party Cookie

Category: Strictly Necessary Cookie

Description: When the scanner is secured by a password, this cookie is created after a successful login and contains an encrypted access token. The access token is required to access all web pages on a secured scanner.

Name: langId

Host: <IP Address of Scanner>

Duration: 365 days

Type: First-Party Cookie

Category: Strictly Necessary Cookie

Description: When the website language is changed, this cookie is created and contains the currently selected language abbreviation (en, fr, it, ko, etc.). When the user closes the browser and comes back, the website displays all language content in the last selected language.

1 Overview

The *Kodak S5000* Scanners include the following models:



Kodak S5160 Scanner — desktop duplex color scanner that scans up to 160 pages per minute (200/300 dpi, black and white/color/grayscale, landscape orientation) A4 size documents with *Kodak Perfect Page* technology.

Kodak S5180 Scanner — desktop duplex color scanner that scans up to 180 pages per minute (200/300 dpi, black and white/color/grayscale,

landscape orientation) A4 size documents, with *Kodak Perfect Page* technology.

Kodak S5210 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.

This User's Guide provides information and procedures for using and maintaining the *Kodak S5000* Scanners. The information in this guide is for use with all models unless otherwise noted.



NOTE:

- Most of the illustrations in this guide show the *Kodak S5160/S5180* scanners.

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.
- **TWAIN Scanning Setup Guide** — the TWAIN Datasource is included with the *Kodak S5000* Scanners. The Scanning Setup Guide explains how to use basic image processing features and is available to download from the Kodak Alaris website: <https://www.kodakalaris.com/support>.
- **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

Refer to the [Supplies and Consumables catalog](#) available at the support website for catalog numbers for the following 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 Section 4, [Document Printing](#) for more information.

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.

Kodak Feeder Kit for Ultra-Lightweight Paper — allows you to feed lightweight paper from a paper weight range of 25 g/m² to 80 g/m² (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.

Kodak A3 Flatbed Accessory — the *Kodak* A3 Flatbed adds scanning capability for exception documents up to 11 x 17-inch (A3) size paper to any of the *Kodak S5000* Scanner models.

What's in the box

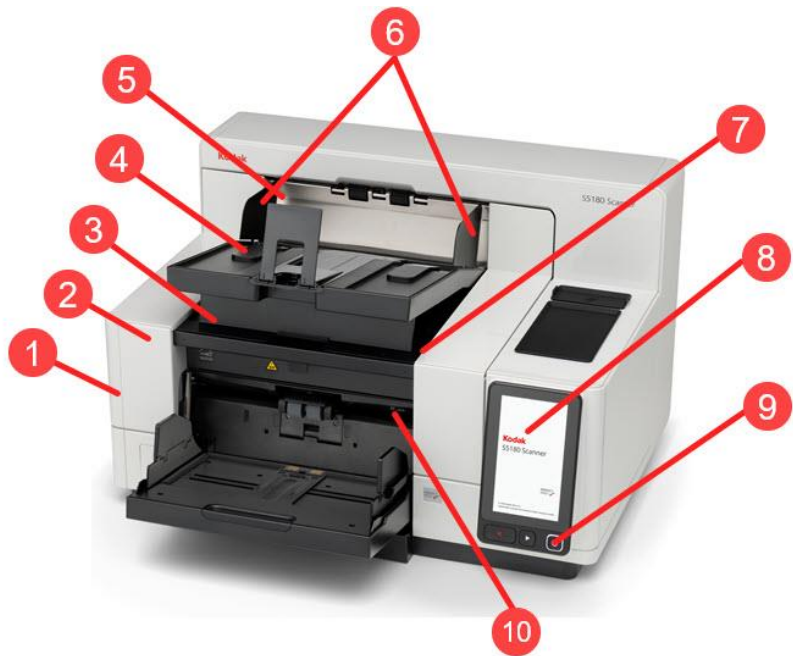
Before you begin open the box and check the contents:

- *Kodak* S5160, S5180, or S5210 scanner
- Output tray
- Short document adapter
- USB cable
- AC power cord bundle
- Replacement tires and pre-separation pads
- Rear exit tray
- Welcome Folio which includes:
 - Dangler extensions
 - Printed Reference Guide (multi-languages)
 - Printed Installation Guide
 - Sample Cleaning Kit
 - Miscellaneous flyers

NOTE: The purchase of a *Kodak* S5210 Scanner includes unpacking and installation by a field service representative. Customers should not unpack/install the *Kodak* S5210 Scanner.
For more information regarding installation of the S5160/S5180/S5210 Scanner, go to: www.kodakalaris.com/go/contact-us.

Scanner components

Front view: all models



- 1 **Scanner cover release latch** (not shown in this illustration; see [Opening the scanner cover](#))— 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 section 3, [Scanning](#) for procedures on how to use 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 **Feed module release lever** — push this lever to the right to release the feed module for cleaning or replacement. When using this release lever, the scanner cover must be open.
- 11 **Start/Resume button** — press to start or resume scanning.

- 12 **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.
- 13 **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.

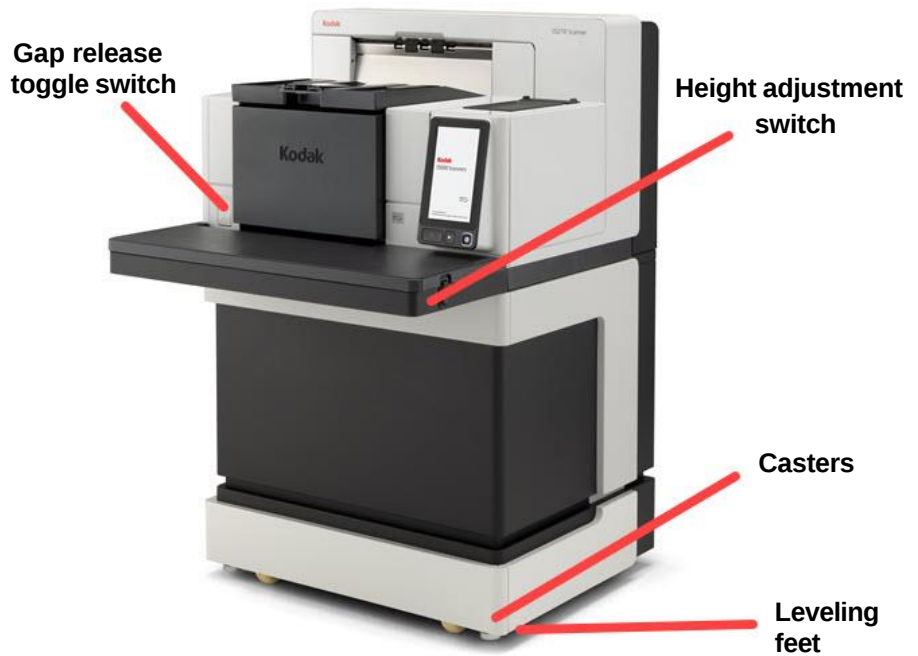


- 14 **Input Elevator** — holds up to 750 documents (20 lb./80 g/m²) in place. The input elevator can be set to accommodate stacks of 25, 100, 250, 500 or 750 documents. The input elevator can be folded up when it is not in use.
- 15 **Input Elevator extender** — pull this extender out to accommodate documents longer than 35.6 cm (14 inches).
- 16 **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.
- 17 **Gap release toggle switch** — push the “+” button to increase the space between the feed module and separation roller for documents that require special handling.

Additional adjustments are possible for all scanner models. See [Adjusting output trays](#) for more information.

Front view: S5210 Scanners

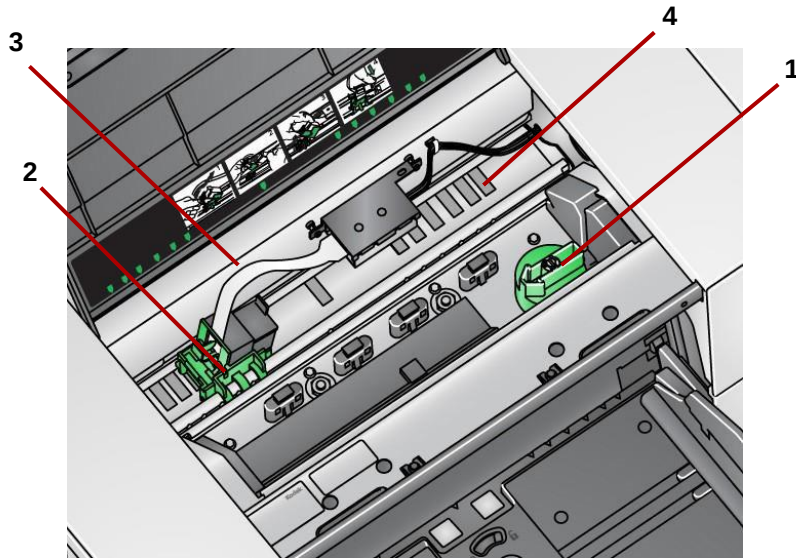
In addition to the components listed previously, the *Kodak S5210* Scanner also has a workspace height adjustment switch which is used to raise and lower the workspace table on the scanner. The workspace table can be raised or lowered approximately 10 inches up or down.



There are four casters and four leveling feet on the bottom of the scanner. If you need to move the scanner, the leveling feet must be raised. Contact Technical Support 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.



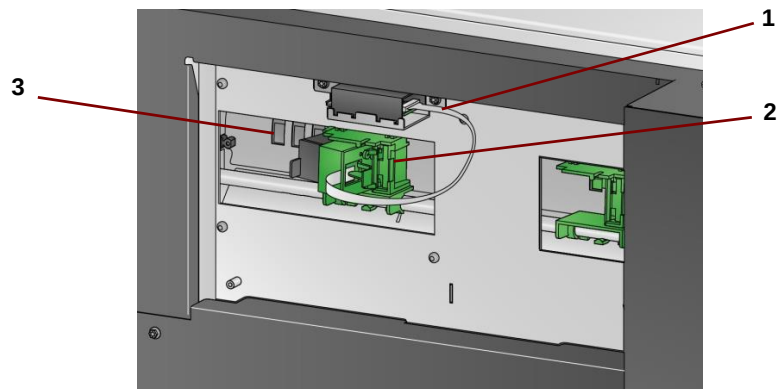
- 1 **Feed module release knob** — turn this knob to release the feed module from its position for cleaning or replacement. Turn the arrow to right to disengage the feed module.

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 S5000 Scanners allow front printing on your documents. Up to 39 positions are available when using the front printer.

Rear printer access view

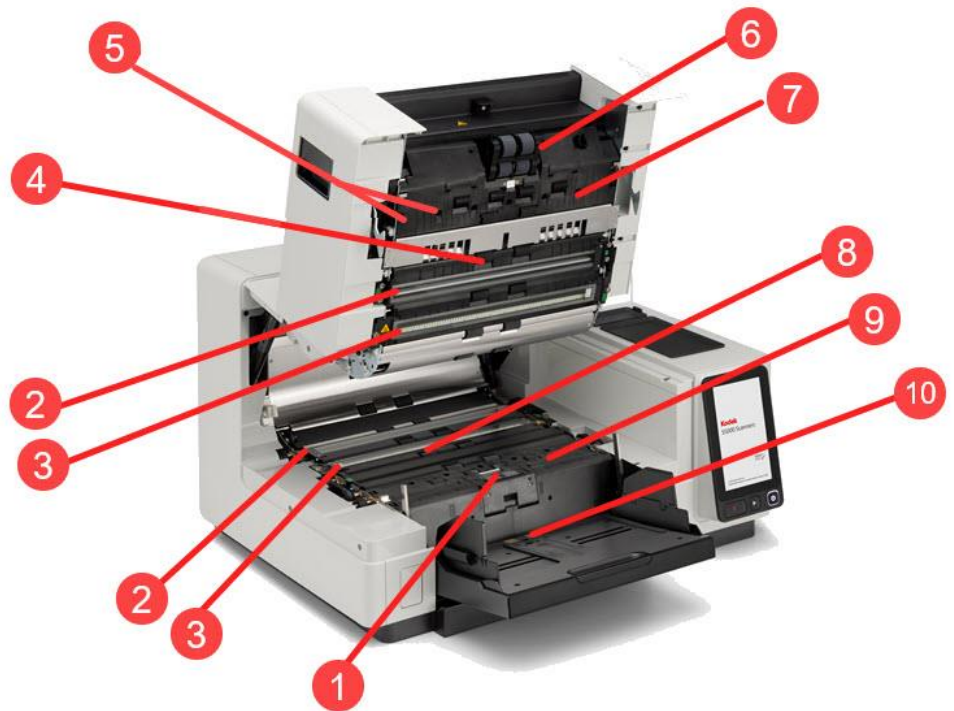
The following components are for rear printing and are only present if the Enhanced Printer Accessory is installed.



- 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*) — S5000 scanners have 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

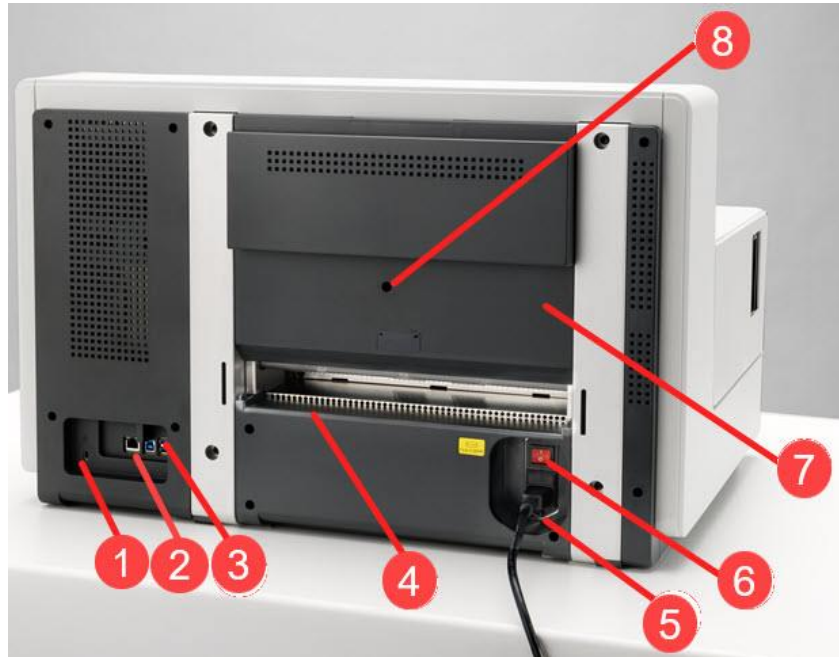
When you pull the scanner cover release latch forward to open the scanner cover, the following internal components are visible.



- 1 **Separation roller and pre-separation 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.
- 3 **Imaging guides** —used by camera to view documents and protect camera from contaminants such as dust, so should be kept clean to obtain optimum image quality.
- 4 **Rollers** — provides smooth transport of documents through the scanner.
- 5 **Intelligent document protection sensors** — these sensors detect documents that enter the scanner incorrectly.
- 6 **Feed module** — provides smooth document feeding and separation of various sizes, thicknesses and textures of documents.

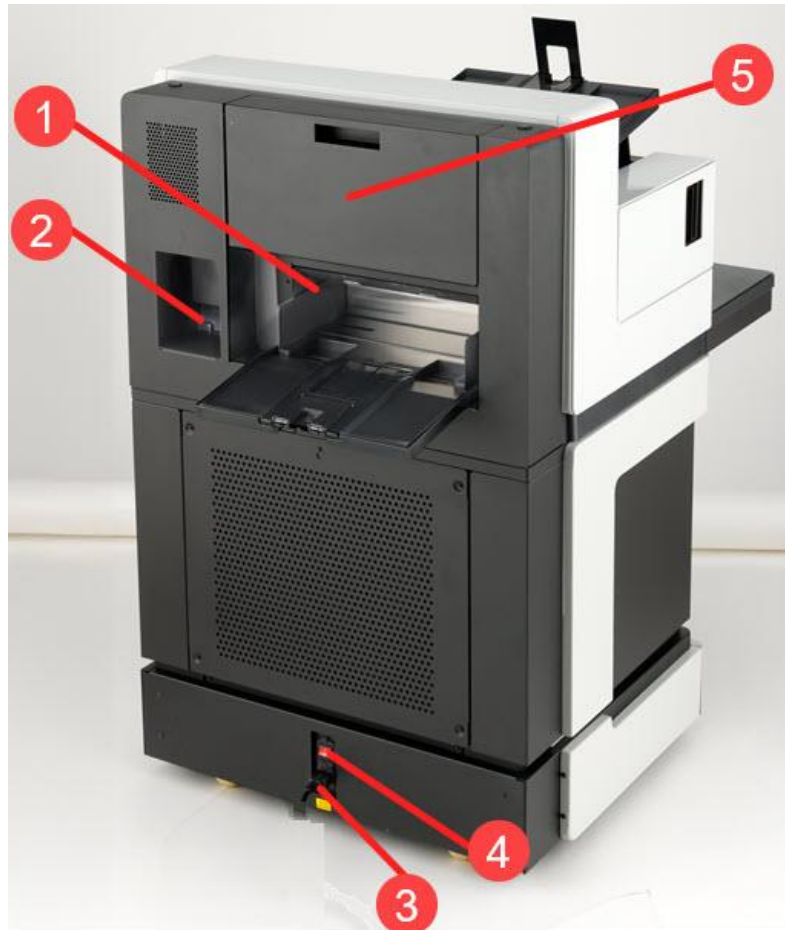
- 7 **Sensors** — these five ultrasonic sensors cover the width of the paper path, which aids in detecting multi-fed documents.
- 8 **Ink blotter channels and ink blotters** (located underneath the drainage strip) — the ink blotters which are placed in these channels collect ink residue from the optional Enhanced Printer Accessory.
- 9 **Metal detectors** — detect any metal (e.g. staples, etc.) before it enters the scanner.
- 10 **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: S5160/S5180 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 **RJ45 network port** — connects the scanner to the local network.
- 3 **USB port** — connects the scanner to the PC.
- 4 **Rear document exit** — allows you to have exception documents exit from the rear of the scanner.
- 5 **Power port** — connects the power cord to the scanner.
- 6 **Main power switch** — this switch must be **On** (I) to activate the power to the scanner.
- 7 **Rear printer access door** — provides access to the rear printer.
- 8 **Screw** — using a flat-head screwdriver, loosen this screw to remove the rear cover, which provides access to the rear printer.

**Rear view: S5210
Scanners**



- 1 **Rear document exit** — allows exception documents to exit from the rear of the scanner.
- 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.
- 5 **Rear printer access door** — provides access to the rear printer.

2 Installation

If desired, Kodak Alaris Professional Services provides professional installation and user training. Contact Technical Support for more details at <https://www.kodakalaris.com/support>.

The following installation procedures are for the *Kodak S5160* and *S5180* scanners. Installation by a field service representative is included with the purchase of a *Kodak S5210* 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 provided at the support website.
- If you have already performed all the steps in the *Installation Guide*, skip this section.

Updated drivers may be available at www.kodakalaris.com/scanners.

Installing the *Kodak* Driver Software

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

1. Download the *Kodak S5000* scanner driver application and manually start the installer.
2. Follow the prompts that are displayed until the installation is complete.

NOTE: If you do not have internet access the CD provided in the product box may be used to install scanner drivers.

Attaching the output tray: S5000 Scanners

When you unpack the *Kodak S5000 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, slide it into place and lower it into position.

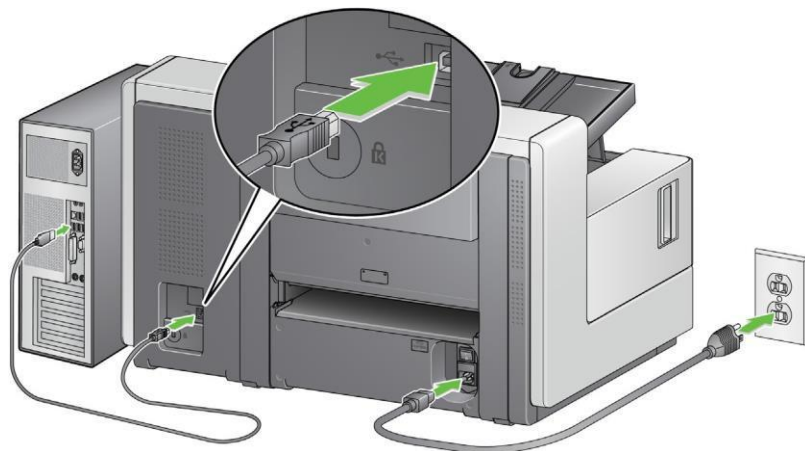


NOTE: Be sure to lift the output tray up to the scanning position before feeding documents. See [Adjusting the output tray](#).

Connecting the power cord and USB cable: S5160/S5180 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.

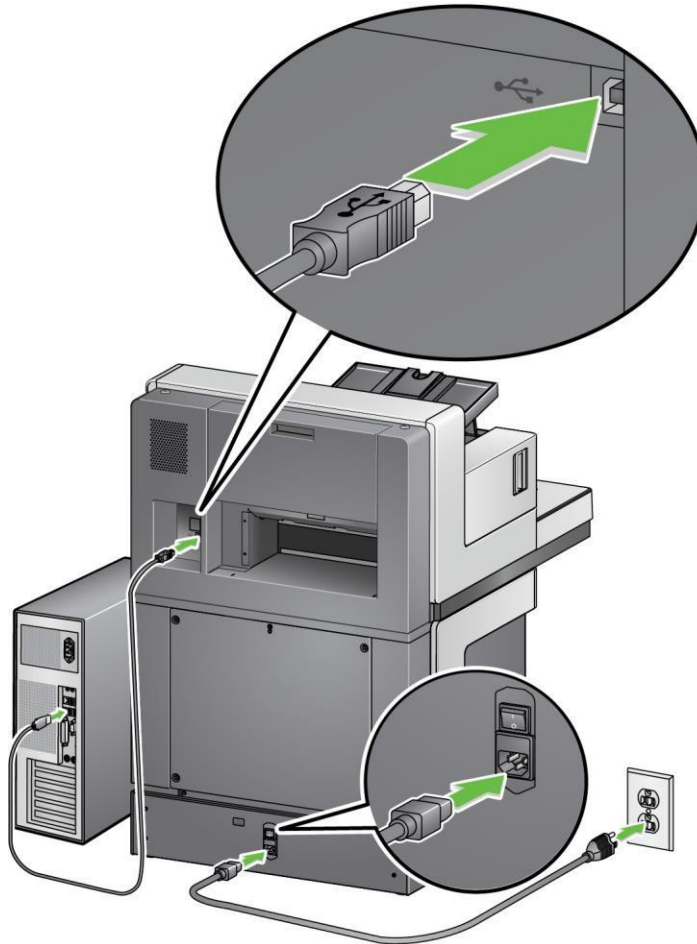
1. Select the appropriate AC power cord for your region from the supply of power cords packed with your scanner.
2. Plug the output power cord into the power port on the scanner. Be sure it is securely attached.
3. Plug the other end of the power cord into the wall outlet.
4. Attach the USB cable to 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: S5210 Scanners

To connect the S5210 Scanner to power, 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 power button LED on the front of the scanner starts blinking and nothing will be displayed on the Operator Control Panel (this is low power mode).



S5160/S5180 Scanners



S5210 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, you are performing maintenance, you are going to move the scanner, or you are directed to turn the power off by a field service representative.
- **For the Kodak S5210 Scanners 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 a field service representative before attempting to relocate the scanner.
- Damages incurred when moving a scanner will not be covered by the Equipment Service Agreement. Kodak Alaris Professional Services provide relocation services. Go to <https://www.kodakalaris.com/support> for more information.

2. Press the **Power** button on the front of the scanner. The Power button LED will blink faster, and the Operator Control Panel remains blank.



If the scanner input elevator is closed during the initialization process, it opens automatically.

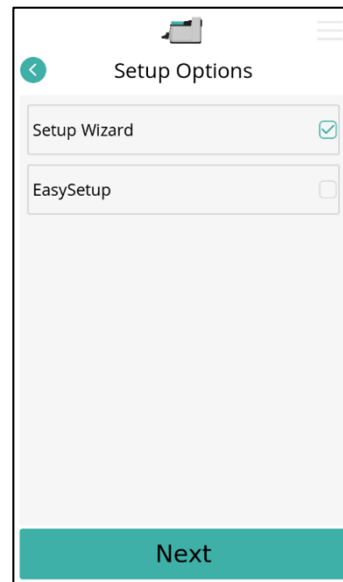
Running the setup wizard

A setup wizard runs for the initial scanner startup as follows:

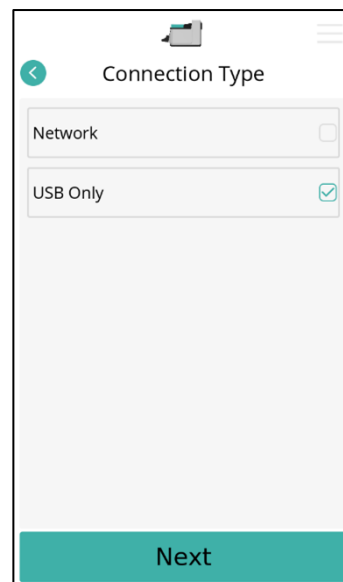
1. Click the box to the right of the language name to select the desired language.

A screenshot of the 'Language' selection screen in the setup wizard. The screen has a white background with a list of languages. At the top, there is a header 'Language' with a small icon of a document and a menu icon. Below the header, there is a list of languages with checkboxes to their right. The languages are: English (checked), العربية, 中文 (简体), 中文 (繁體), Čeština, Nederlands, and Français. At the bottom of the list is a large teal button labeled 'Next'.

2. Click **Next** to open the Setup Options window, then click the checkbox to select Setup Wizard for configuring the scanner to PC connection and click **Next**.



3. The Connection Type window opens. Click the checkbox to select if your scanner is to be connected via network (Ethernet) or USB.



- a. Selecting Network opens a selection for either an Automatic or a Manual network connection.

Connection Type

Network ☒

USB Only ☐

Automatic ☒

Manual ☐

Next

- i. Selecting Automatic chooses DHCP format for the Ethernet address; click **Next**. Proceed to step 5.
 - ii. Selecting Manual chooses static IP format for the Ethernet IP address; click **Next**. Proceed to step 4.
 - b. If USB Only is selected, click **Next**. Proceed to step 6
4. The Static Address window opens. Both IP Address and Subnet Mask entries are required (default subnet mask address is 255.255.255.0). Click **Next**.

Static Address

IP Address
192.168.1.2

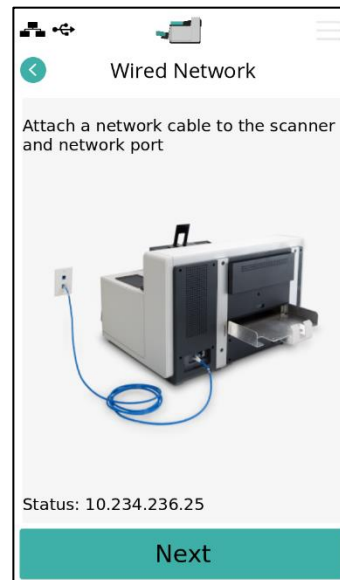
Subnet Mask
255.255.255.0

Default Gateway
. . .

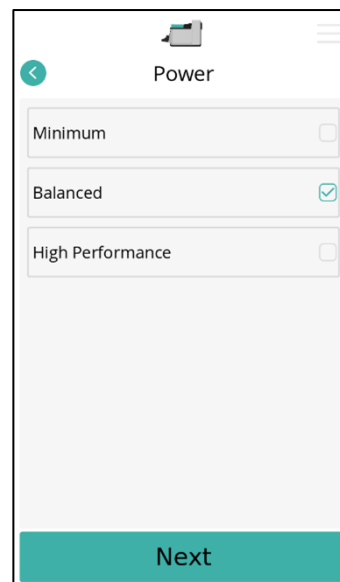
7	8	9
4	5	6
1	2	3
<-	0	->

Next

5. The Wired Network menu appears. Connect the scanner and network port via network cable; click **Next**.

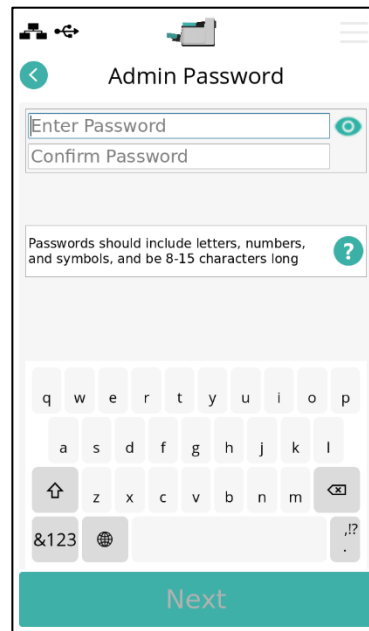


6. The Power screen opens. Select power level dependent on scanning frequency per the table below; click **Next**.



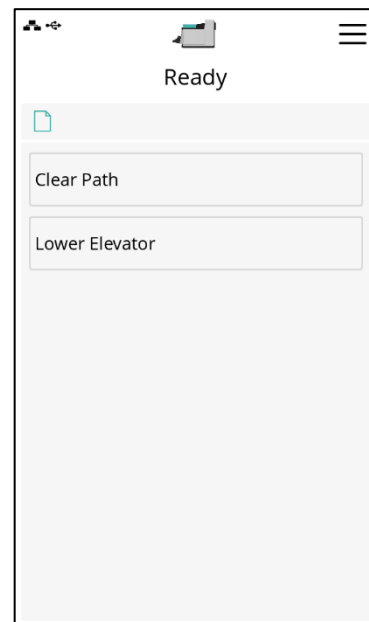
Power Level	Idle duration before Power Saver activates (minutes)	Power Saver duration before Power Off activates (minutes)
Minimum	5	60
Balanced	15	60
High Performance	120	Disabled

7. The Admin Password Entry screen opens. Set new password per the onscreen requirements; click **Next** to save the password and exit the Setup Wizard.



The Admin Password screen features a teal header bar with a back arrow, a folder icon, and a menu icon. The title "Admin Password" is centered. Below the header are two input fields: "Enter Password" and "Confirm Password", each with a teal eye icon for password visibility. A teal box below the fields contains the instruction: "Passwords should include letters, numbers, and symbols, and be 8-15 characters long" with a teal question mark icon. A virtual keyboard is displayed below the instruction. At the bottom is a large teal button labeled "Next".

8. The Ready screen displays.



The Ready screen has a teal header bar with a folder icon and a menu icon. The title "Ready" is centered. Below the header is a teal box containing a teal document icon. Underneath are two buttons: "Clear Path" and "Lower Elevator". The bottom half of the screen is a large, empty light gray area.

Power modes

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

Mode	LED	Power consumption	Action
Scanner off	Off	<0.3 watts	Turn the power switch on the back of the scanner to the Off position (O).
Standby	Slow flashing white	<0.5 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 3 seconds.
Low Power	Flashing white	<23.7 watts	The scanner goes from Ready mode to Low Power mode by pressing the Power button for more than 3 seconds.
Ready	Steady white	< 100 watts (idle)	The scanner goes from Standby mode to Ready mode by: Pressing the Power button.
		< 240 watts (scanning)	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 Pause/Stop button; or - pressing the Start/Resume button, or - receiving a host command.

3 Scanning

Getting your scanner ready to scan

1. Be sure the scanner is on and in **Ready** mode (power button LED is white and constant).
2. Adjust the input elevator to meet your scanning needs. See Adjusting the input elevator.
3. Adjust the output tray to meet your scanning needs. See Adjusting the output tray.
4. Select your scanning application.

NOTE: The illustrations in this chapter show the S5160 Scanner. All adjustments are the same for the S5180 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.

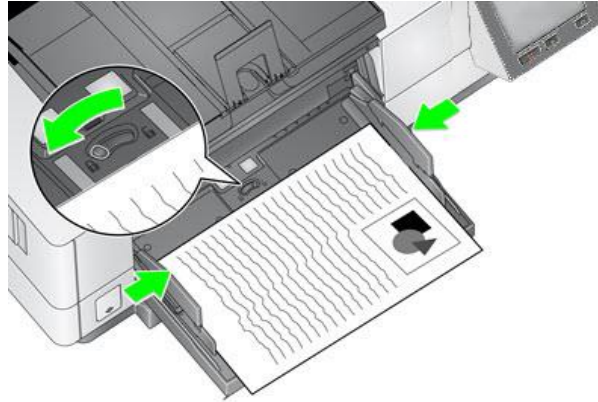


- **Adjusting the side guides** — the side guides can be adjusted for right-edge, left-edge or center feeding. The side guides can be moved together for center feeding or independently for offset feeding (right-edge or left-edge). Before moving the side guides, be sure the locking switch is not in the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

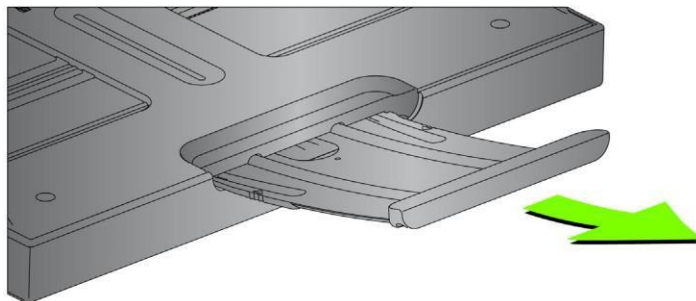
To lock the side guides, remove any documents from the input elevator and move the lock switch to the left (the locked position).



- **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/m² bond paper. Input elevator settings are made through your scanning application software (i.e. TWAIN Datasource or ISIS Driver).

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**, 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-Transport 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.
- You can use a document extender (if available) for scanning documents longer than 43.2 cm (17 inches).
- **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 fewer than 100 sheets at a time.

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 or ISIS Driver). 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.

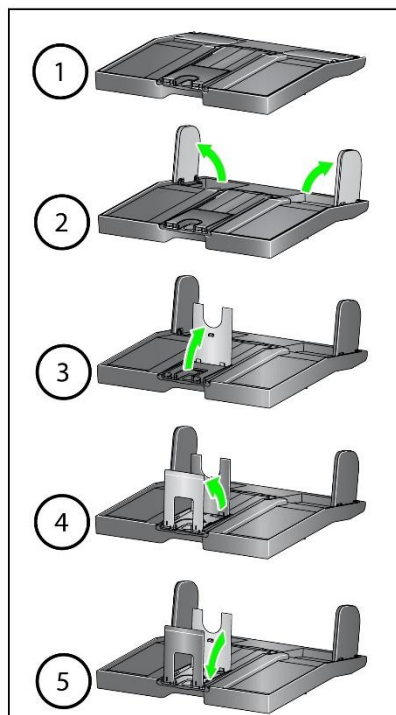
- **Adjusting the angle of the output tray** — it is strongly recommended that you scan documents with the angle of the output tray in the “up” position to achieve best stacking performance. Just lift the front of the output tray and the height adjustment tab will release from underneath the output tray.



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.

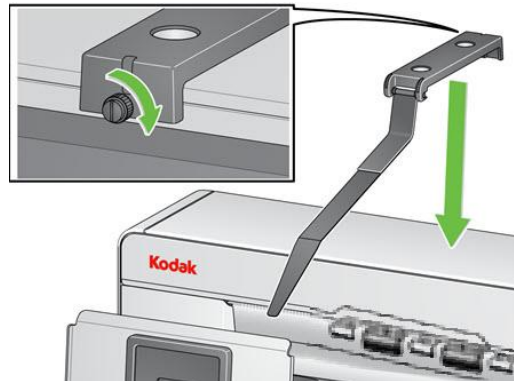
Adjust the output tray document stop to slightly longer than the longest document being fed. If you are scanning documents longer than the output tray will accommodate, fold the document stop flat on the output tray.



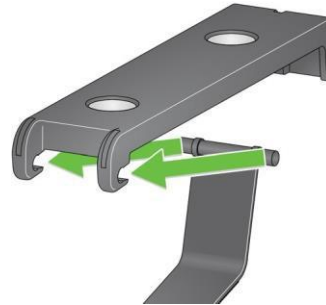
Changing the dangler extensions

The scanner comes with a mount and danglers, which can easily be changed based on the document set you are scanning.

If desired, attach the mount to the top of the scanner. The dangler helps align the documents as they are deposited in the output tray. Three sizes of the danglers are available. Depending on the document set you are scanning, attach the size of the dangler that meets your needs.



NOTE: To change the dangler, remove the mount, unclip the dangler, and snap the desired dangler into the slots as shown.

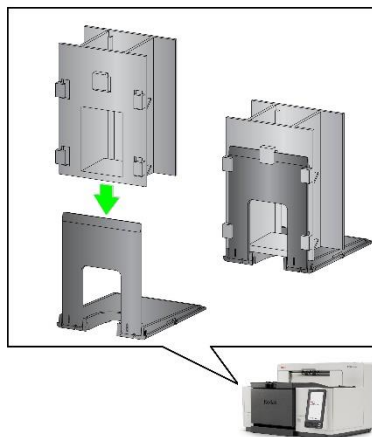


See [Using the danglers](#).

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 (S5210 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.
- Be sure that scanning is inactive as scanner height cannot be adjusted while scanning is in progress.

Using the rear document exit

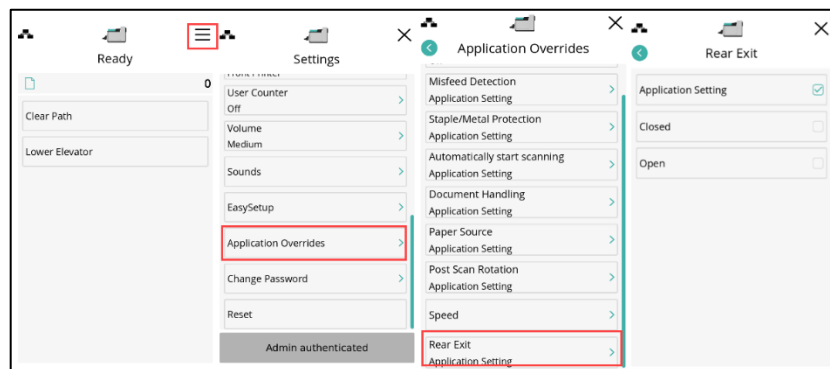
Documents that require special handling (e.g., fragile documents, shipping envelopes, etc.) can be output using the rear document exit. This exit provides the straight-through paper path option that allows an exception document(s) to pass straight through the transport, thus reducing the possibility of a document jam. The maximum number of sheets that fit in the rear exit tray are 50 for the S5160/S5180 models and 300 for the S5210 model (20# weight).

Use the rear document exit when:

- documents are too stiff (e.g., rigid) to make the turn in the transport and are jamming.
- documents are fragile and you do not want to bend them.
- output stacking order is not important.
- scanning directly into the recycle bin when documents are no longer needed after scanning.
- scanning photographs.

NOTES:

- **Rear Exit** may be selected in the driver settings or from the Operator Control Panel.
- Click the Action icon in the upper right corner to access **Settings** (the OCP selection supersedes the driver settings). Authenticate with an administrative password.
- Scroll down the settings items and select **Application Overrides**.
- Scroll down the overrides options and select **Rear Exit**.
- Select **Open** to direct scanned documents out through the rear exit tray
- The rear exit control may also be accessed from the **Paused** screen when scanning; see [Overrides](#) for more information



- Be sure that you have adequate clearance behind the scanner to feed the document(s) through when using this option.
- When scanning several documents through the rear document exit, the documents are output in the reverse scanning order.
- Be sure the rear exit tray accessory is attached. See [Accessories](#) for more information.

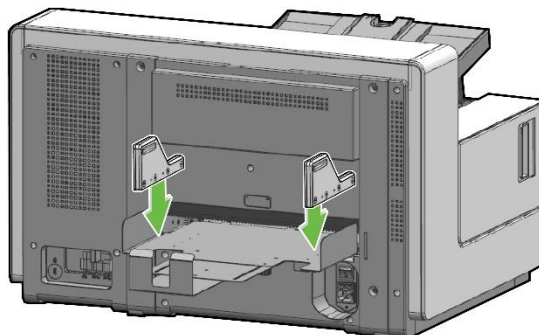
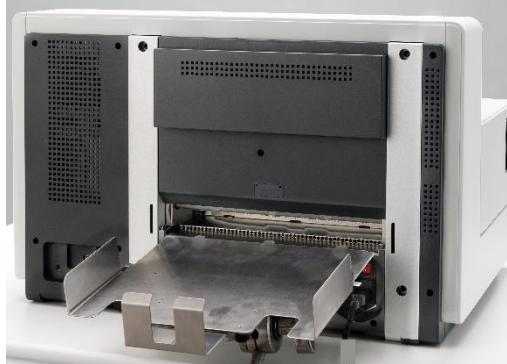
Installing the rear document exit tray accessory

The rear document exit tray accessory can be installed to collect the scanned documents from the rear document exit.

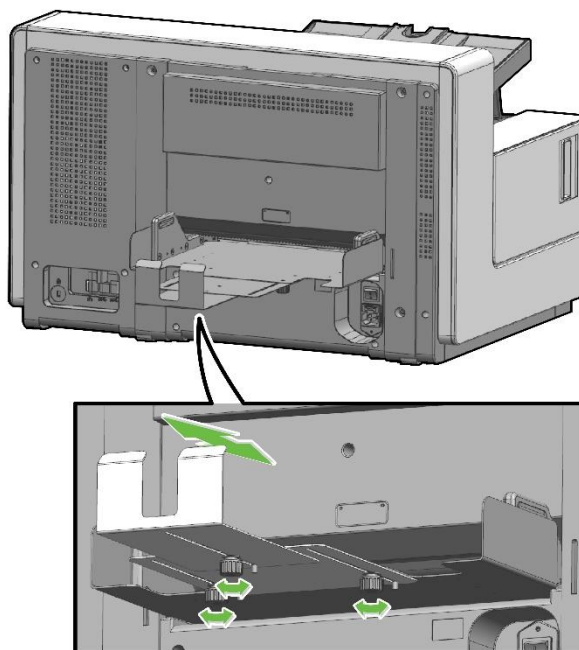
- The rear document exit tray can scan documents up to 43.2 cm (17 inches) on all models.

The exit tray installation is basically the same for all scanners.

1. Angle the tray slightly to place the slots on the rear exit tray into the slot locations inside the scanner and gently lower the tray in place.
2. Place the side guides on the exit tray in the desired location for your scanning needs.



NOTE: The locking knob on the bottom of the exit tray can be loosened to allow you to slide the tray forward or backward to accommodate the size of the documents you are scanning.



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.
 - Use of the rear document exit tray.

Scanning documents

The scanner must be enabled to scan documents 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 starts 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.

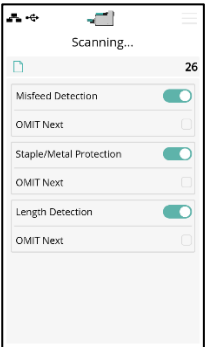
Auto start options:

TWAIN: Automatically start scanning

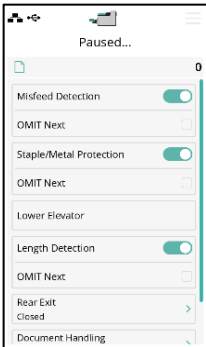
ISIS: Automatically start transport

See the *Scanning Setup Guide for TWAIN* for more information.

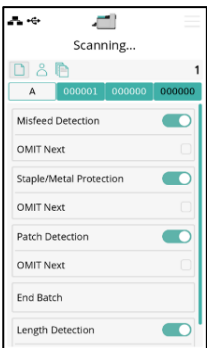
This screen will be displayed if the auto start option is **enabled** in your scanning application:



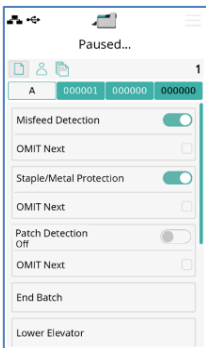
This screen will be displayed if the auto start option is **disabled** in your scanning application:



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



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



4. You can override some features (e.g. printing, staple/metal protection, multifeed detection, etc.) during a scan job or from the Paused and Scanning screens by pressing the screen controls; see [Overrides](#) for more information. The *OMIT Next* controls override features only for the next document.
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 **Pause/Stop** button on the scanner once.
- If you want to stop scanning, press the **Pause/Stop** button twice.
- Press the **Start/Resume** button on the scanner to restart scanning after pausing.

NOTE: If your PC does not meet the minimum requirements, the scanner may automatically pause during scanning and resume scanning when enough internal buffer memory is free.

Using the Operator Control Panel touchscreen

There are a variety of options that can be accessed by using the Operator Control Panel touchscreen which is divided into five sections:



Indicator area: *connection, maintenance, system override information*

Title area: *scanner state, event, or function*

Counter: *sequential counter + user and batch counters if active*

Indexing: *shown if enabled in the host driver*

Content area: *relevant functions are displayed*

For more information and procedures for using these options, see the following sections.

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

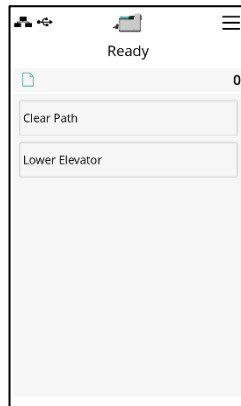
Ready screen

The Ready screen provides a list of options that can be selected. In addition, status information, the counter value, and the image address are displayed in the status area at the top of the screen. Following are the icons that may be displayed in these areas.

The counter value starts at 0 and increments with each scanned page. The maximum value that will display is 999,999,999.

53	If either the User or Batch Counter options are On , then the counter value is followed by the User counter icon or the Batch counter icon to indicate which counter value is being displayed.
	The document counter is always enabled; if other counters are also enabled, the selected counter value displays.
	If shown and selected, indicates that the User counter is being displayed.
	If shown and selected, indicates that the Batch counter is being displayed.
	Indicates an Application Override is enabled.
	Indicates that no paper is present when the top paper exit is enabled.
	Indicates that paper is present when the top paper exit is enabled.
	Indicates that the no paper is present when the rear paper exit is enabled.
	Indicates that paper is present when the rear paper exit is enabled.
	Indicates some consumable needs to be replaced or attended to. See Viewing the Maintenance Meters.
	Indicates that a USB is connected.
	Ethernet detected but not connected.
	Ethernet connection active.
	Indicates a recoverable error condition. For example, Input elevator full or feed module missing or broken .
	Indicates an error state. For example, paper may be in the transport, or imaging guides may not be installed correctly.
	FADGI mode enabled indicator (not shown if FADGI mode disabled).
	Action button to access the Settings screen.
	Action button to close Settings screen and return to Ready screen.

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



- **Clear Path** — clears the scanner transport of any documents.
- **Lower Elevator** — lowers the input elevator to the lowest position.

NOTE:

- Additional rear exit setup and setup of sorting options can be found in the Sorting section of this guide.

Clearing the Paper Path

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

Lowering the Elevator

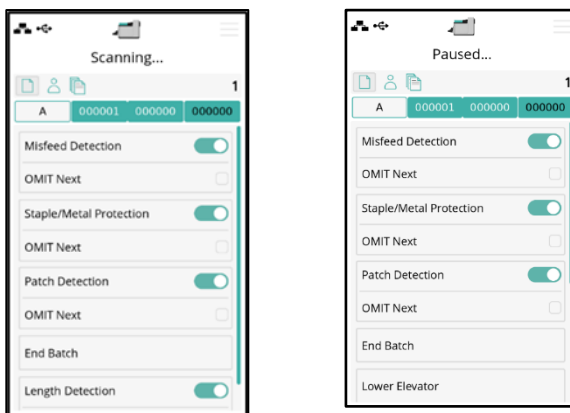
Use this option whenever you need to make additional room in the input elevator for adding documents to the stack. The input elevator will descend to the lowest position (750 sheet) when you touch **Lower Elevator**.

Batch Counter

The Batch Counter icon is added to the OCP counter control if the Batch Counter is set to **On** via the driver setting or job setup. The counter starts at 0 and increments by 1 for every batch of documents scanned.

When the Batch Counter is active, the scanner displays the batch counter value if the batch count control icon is manually selected, which shows on the OCP screen as a border around the batch counter icon.

If the Batch Counter is set to **On**, the Batch Counter and End Batch options are available from either the Scanning or Paused screens.

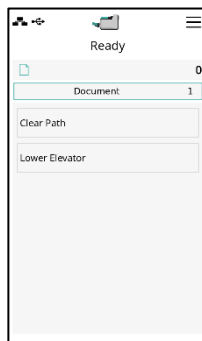


If End Batch is touched from either the Scanning or Paused screens, the Batch Counter is reset to 0 and the  icon is displayed in the counter control area of the Scanning and Ready screens, next to the Counter value and allows toggling between counters.

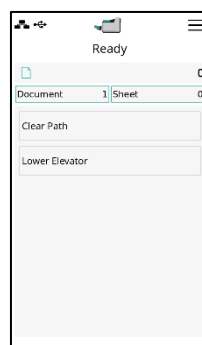
If the Batch Counter is set to **Off**, the End Batch option is not available from either the Scanning or Paused screens. Only the Document Counter value will be displayed in the status area.

Ready screen when Indexing is enabled in the scanning application

When Indexing and Batching are enabled, the Ready screen will have additional options for the S5180 and S5210 models. A Counter area will be displayed under the Status area. Depending on the Indexing selection in the scanning application, the Level area will be displayed differently. For example:

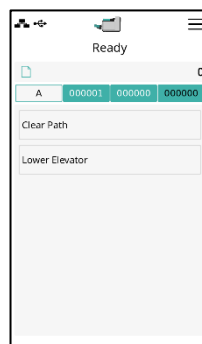


- If **Single Page** or **Bates Stamp** is selected (i.e., in the driver), this view will be displayed.



- If **Multiple Pages** is selected (i.e., in the driver), this view will be displayed.
- If **Image Addressing** is selected (i.e., in the driver), this view will be displayed.

NOTE: These options are not available on the S5160 and S5180 scanners.



The **Batch 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:

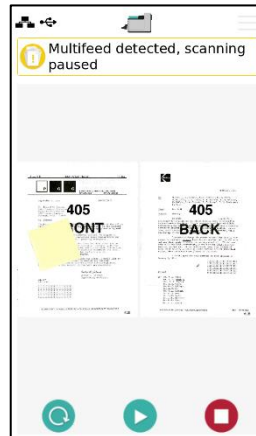
- Three indexing level buttons will be displayed in the Level area: **Level 3**, **Level 2** and **Level 1**. You can increment the index level by touching one of the level buttons. During a scan session the level button that is highlighted is the level which will be assigned to the next document.
- When batching is enabled an **End Batch** option will be available allowing you to manually end the batch.

Verifying a multifeed document

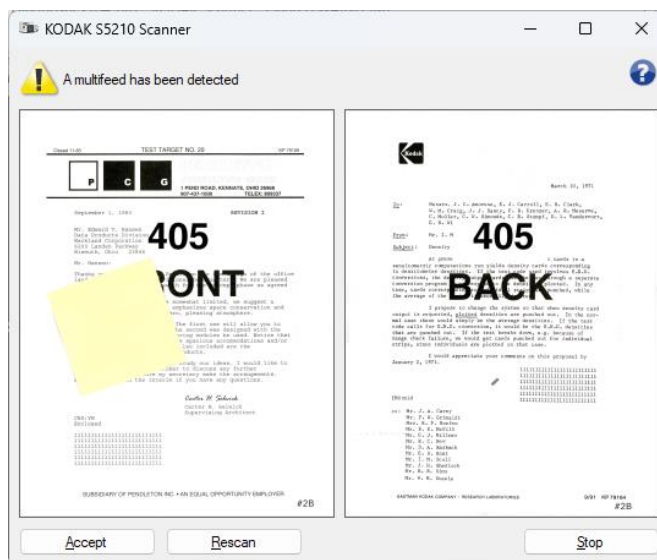
When you encounter a multifeed and you have **Multifeed Detection** enabled, the scanner will stop and display the following screen allowing you to accept the image as is or rescan.

The image will be displayed on the Operator Control Panel and the PC when you have **Multifeed Detection** enabled and with the **Interactive Multifeed Recovery** option selected in the driver.

- The image will only be displayed on the Operator Control Panel if you have **Multifeed Detection** enabled and the **Pause Scanning - (generate images)** option set in the driver.



- The image will be displayed on your PC for easy viewing.



- If you want to accept the image as is, select **Accept** and the scanner will continue to scan.
- If you want to rescan the document, select **Rescan** and put the document back into the input elevator. The document will be rescanned.

If you press **Pause/Stop** on the Operator Control Panel, the images shown on the PC will be disregarded and the scanning session will end.

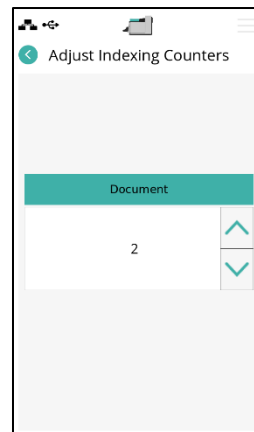
Recovering from a document jam

Your scanner can be configured to either **Stop Scanning** or **Pause Scanning** when a document jam occurs.

- If your scanner is configured to **Stop Scanning** and a document jam occurs, the scanner will stop. You can clear the jam from the scanner and press the **Scan** button in your scanning application to continue scanning.
- If your scanner is configured to **Pause Scanning** and a document jam occurs, the scanner will enter the Paused state. You can clear the jam from the scanner and press the **Start/Resume** button on the Operator Control Panel. If you have Indexing, Batching or Printing enabled, the scanner will enter the Paused state and the following options (depending on what is setup for your job in the scanning application) will be available on the Operator Control Panel:
 - Adjust Indexing Counters
 - Adjust Batch Counter
 - Adjust Printer Counter

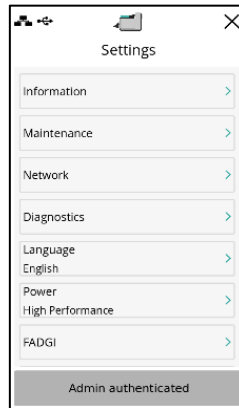
When any of these screens are displayed, you can adjust the counters from the Operator Control Panel.

For example, if you have **Indexing: Single Page** selected in the scanning application and you encounter a document jam, you can use the Up and Down arrows to adjust the index count if needed.



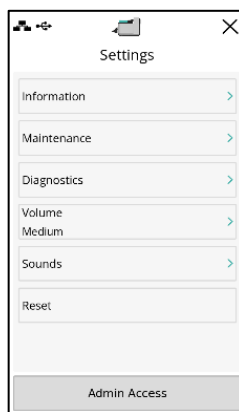
Settings screen

The Settings screen is accessed by touching the Action button on the Ready screen and displays scanner options that are set infrequently.



**Administrative authenticated
Setting options**

NOTE: Values displayed under options are current settings.



**Non-authenticated
Setting options**

NOTE: Only starred options (*) may be changed by all users; all others are only changed by administrative users.

- **Information*** — displays scanner operational information.
- **Maintenance*** — displays maintenance thresholds, clean, and meter values for consumables.
- **Network** — displays wired network address, wired settings, use SSL toggle, and sharing link button.
- **Diagnostics*** — displays operator log, scan history, print test, count only, count only – simple sorting, count only – patch sorting, count only – multifeed, patch test, patch test – hardware, flatbed calibration, and alterations.
- **Language** — allows you to choose the OCP language from 19 options.
- **Power** — allows you to choose from minimum, balanced, high performance, and custom setting options.
- **EasySetup**— allows you to set up the scanner by scanning a configuration document.
- **FADGI** — toggle button enables/disables FADGI scanning mode.
- **Elevator** — toggle button enables/disables automatic elevator functionality.
- **Printer** — allows you to select either front or rear printers when installed.

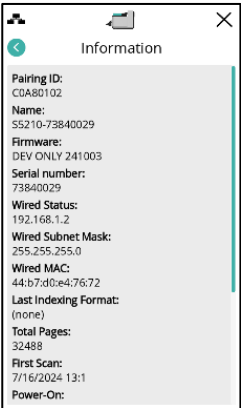
- **User Counter** — when enabled, counts all documents that are fed until reset.
- **Volume*** — allows you to adjust the volume of the scanner alarm.
- **Sounds***— allows you to select a scanner sound for when a scanner condition is encountered.
- **Application Overrides** — allows you to set the printing, maximum length, misfeed, and staple/metal detection, automatically start scanning, document handling, paper source, post scan rotation, scanner speed and rear exit options. Most screens that are accessed from the Application Overrides screen provide the Application Settings option. The Application Settings option is the default and indicates that the scanner will use the settings as defined in your scanning application.

For more information about Application Overrides, see [Application overrides](#).

- **Change Password** — allows you to update the scanner password.
- **Reset*** — resets all options to the factory default settings.

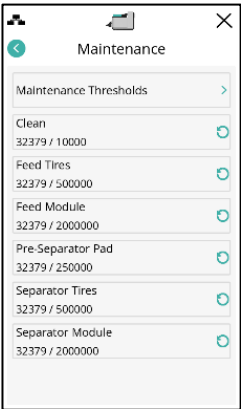
Information

This option displays firmware version number, scanner serial number, total scanned documents, first scan date, front lamp, rear lamp, transport, power on meters and local and GMT time. Scanners with image addressing also display image address mode and last image address information.



Maintenance

This option allows you to track and update consumable maintenance intervals.



Viewing the Maintenance Meters

Use the Maintenance settings to view or change the Maintenance meter values and thresholds (the interval indicating how frequently a consumable needs to be replaced) and to monitor when you need to replace consumables.

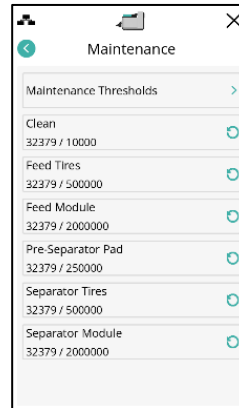


Allows you to change the maintenance threshold values by accessing the interval edit dialog.



Displays the Reset Meter screen which allows you to reset a consumable's meter. For example, when you change a consumable, touch this icon to reset the meter to 0.

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



You can change the maintenance threshold of a consumable or reset the maintenance meters after replacing a consumable.

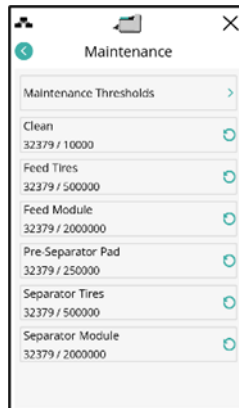
If you want to change a maintenance threshold:

1. Select **Maintenance Thresholds** to display the Maintenance Thresholds screen.
2. Touch the **Edit** icon next to the consumable for which you want to change the threshold value.
3. Use the Up and Down arrows to adjust the value, then touch the **Back** button to return to the previous screen.

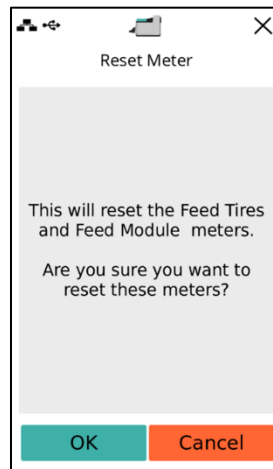
If you want to reset a maintenance meter:

NOTE: When you reset the feed module counter meter, the feed tire meter will also be reset.

1. Touch the consumable you want to reset a value for.



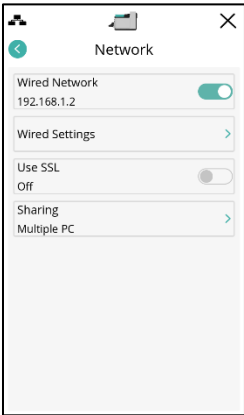
2. The Reset Meter screen will be displayed.



3. Touch **OK** to reset the meter to 0.

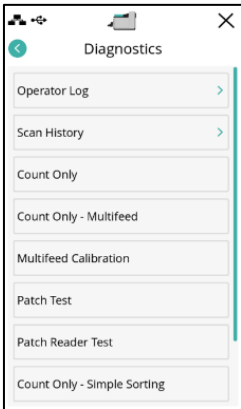
Network

This option allows you to enable/disable the ethernet and SSL connections, update wired network features and set sharing for single or multiple computers. See [Turning the scanner on](#) for more information.



Diagnostics

This option allows you to view operator logs and scan history as well as running print test, count only, count only – simple sorting, count only – patch sorting, count only – multifeed, patch test, patch test – hardware, and flatbed calibration.



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.



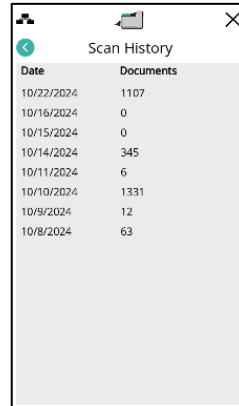
The messages that are displayed in the log are only those messages that have occurred since the scanner was powered on. When you turn the power off or the scanner goes into Standby or Low Power mode, the Operator Log on the Operator Control Panel touchscreen will be cleared.

To view messages which have been cleared from the Operator Control Panel touchscreen, see section 9, [Troubleshooting](#).

- After viewing the operator log, touch the Close button to close Settings and return to the Ready screen.

Viewing the Scan History

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



Date	Documents
10/22/2024	1107
10/16/2024	0
10/15/2024	0
10/14/2024	345
10/11/2024	6
10/10/2024	1331
10/9/2024	12
10/8/2024	63

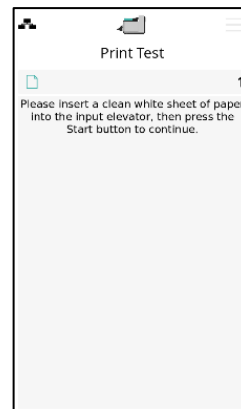
2. When finished, touch the Close button to close Settings and return to the Ready screen.

Performing a Print Test

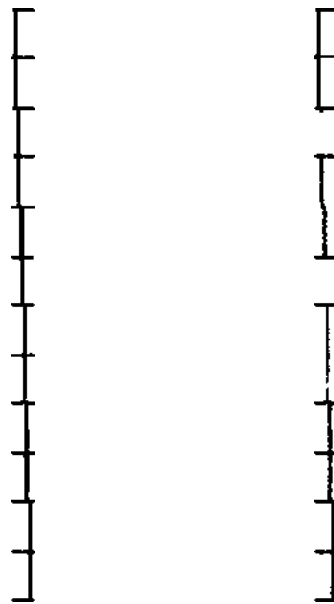
The print test checks to be sure the ink jets in the optional Enhanced Printer are working properly.

NOTE: This option works for both the front and rear printer.

1. Select **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 be scanned and the results of the print test will be displayed.
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 scan.
 - 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

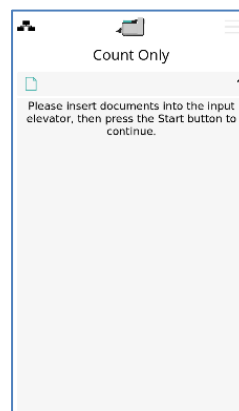
NOTE: Clean the print head by removing it from the printer carrier and dabbing the print head with a damp cloth. For procedures on removing or changing the ink cartridge, see section 4, [Document Printing](#).

5. Touch the **Pause/Stop** OCP button to return to the Diagnostics screen.

Count Only

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

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



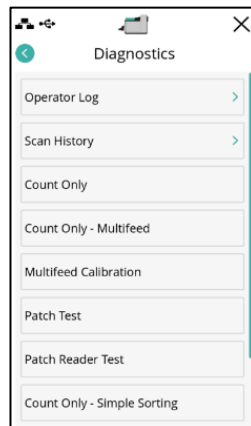
2. Place the documents you want to count in the input elevator.
3. Press the **Start/Resume** button. When the scanner has scanned all documents, the total number will be displayed.
4. Touch **Pause/Stop** to return to the Diagnostics screen.

NOTES:

- When you press the **Pause/Stop** 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.

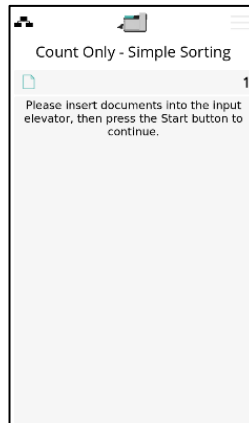
Count Only - Sorting options

Count Only can be done with sorting options to help diagnose problems with either the document set or the scanner.



Count Only - Simple Sorting

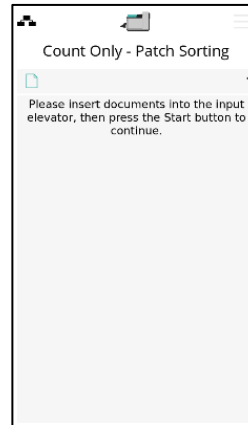
1. Select **Count Only - Simple Sorting**. The Simple Sort Test screen will be displayed.



2. Place documents for the test in the input elevator.
3. Press the **Start/Resume** button. One page will exit to the upper tray, the next to the lower tray, and the next to the rear tray; remaining pages will continue exiting to the three trays in this way.
4. Press **Pause/Stop** to stop scanning and return to the Diagnostics screen.

Count Only - Patch Sorting

1. Select **Count Only - Patch Sorting**. The Patch Sort Test screen will be displayed.

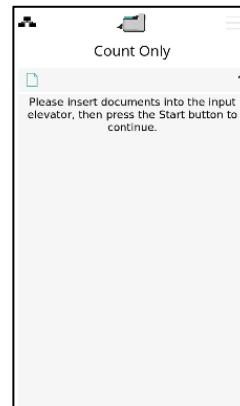


2. Place documents for the test in the input elevator.
3. Press the **Start/Resume** button. Any page where any of the supported patch codes are read by the hardware patch readers (front side only) will go to the upper tray. All other pages will exit to the lower tray.
4. Press **Pause/Stop** to stop scanning and return to the Diagnostics screen.

Count Only - Multifeed

The Count Only - Multifeed option allows you to count documents without scanning, however, when a multifeed is detected, the scanner will stop.

1. Select **Count Only - Multifeed**. The Count Only Test 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 detects a multifeed document, the following screen will be displayed.



4. Press **Stop** to stop scanning and return to the Diagnostics screen.

Performing a Patch Test

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

1. Select **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.



4. Touch **Pause/Stop** to return to the Diagnostics screen and touch the 'X' button to close Settings and return to the Ready screen.

Performing a Patch Reader Test

Use the Patch Reader Test to test the hardware patch readers to verify that the patch sheets can be detected.

- 1. Select **Patch Reader Test**. The Patch Test screen will be displayed.

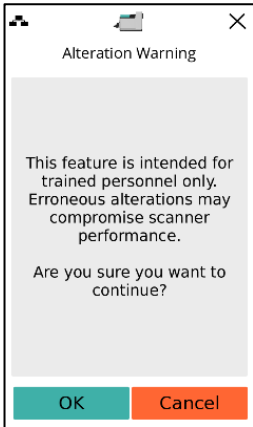


- 2. Place a document(s) with a patch(es) in the input elevator.
- 3. Press the **Start/Resume** button. When the document(s) has been scanned, the results of the patch test will be displayed on the touchscreen. The results show the number of patches and patch types that were recognized by the scanner.

	1	2	3	4
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
T	0	0	0	0
6	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
Total	0	0	0	0

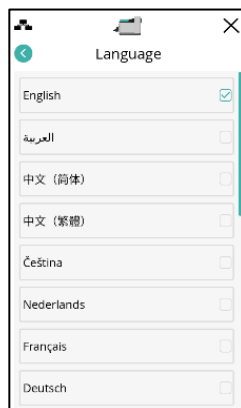
Alterations

Only use this option when directed to do so by Kodak Alaris Technical Support.



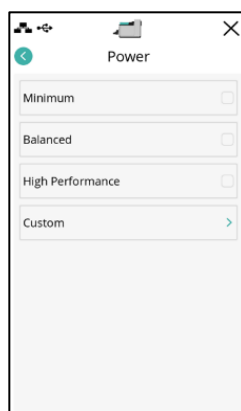
Language

This option enables you to choose the OCP language.



Power

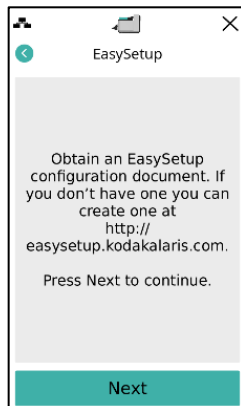
This option enables power saver and power off settings and can be customized.



EasySetup

You can configure your scanner's network settings by scanning an EasySetup bar code document.

1. Select **EasySetup** to display the starting screen.

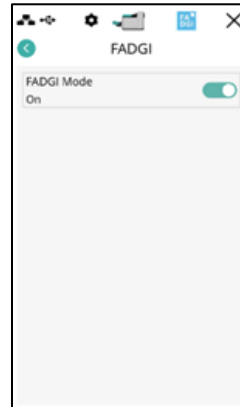


2. If you don't already have a configuration document, navigate to the EasySetup website at <https://easyssetup.kodakalaris.com> and press **Next**.
3. Place the EasySetup configuration document in the scanner's input tray and press **Next**. Documents are scanned after configuration is set.

4. Configuring, Scanning, and Processing screens appear in sequence as the setup proceeds
5. When you see the message *'EasySetup configuration successful'* click **Next**.
6. Touch the Back button to return to the Settings screen; or touch the Close button to return to the Settings screen without saving your changes.

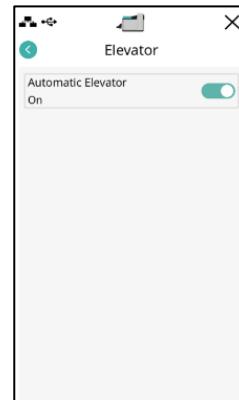
FADGI

This option enables you to activate or deactivate FADGI scanning. Reference the S5000 Series Supplemental FADGI User's Guide for additional information.



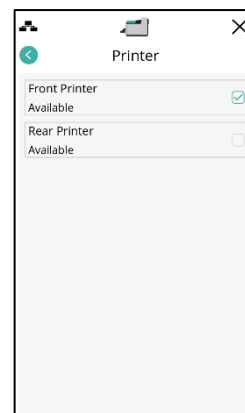
Automatic Elevator

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



Printer

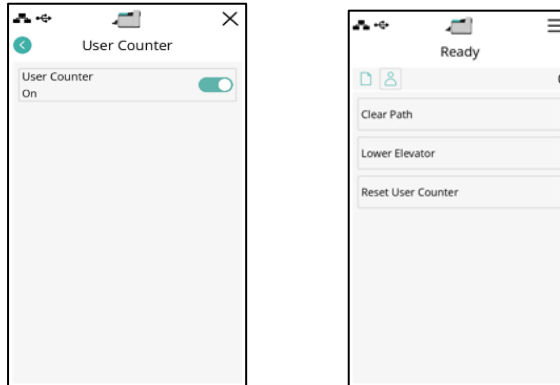
This option enables you to select either front or rear printers depending on what options are installed on your scanner.



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 user counter icon  appears on the counter control and **Reset User Counter** options will be available from the Ready screen.



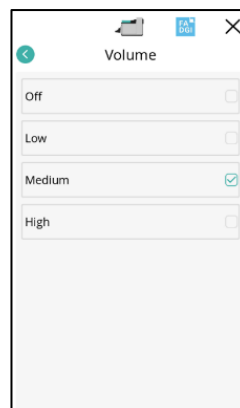
- If you touch **Reset User Counter**, the User Counter is reset to 0. To toggle between counters, press the associated counter icon to display that counter's value. By default the Document Counter is always displayed.

If the User Counter is set to **Off**, the **Reset User Counter** option will not be available from the Ready and Scanning screens. Only the Document Counter value will be displayed in the status area.

Changing the alarm volume

The Volume screen allows you to adjust the volume of the scanner. The sound can be set to **High** volume (loudest) to a **Low** volume (quietest) or to **Off** (no sound). The default is Medium volume.

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

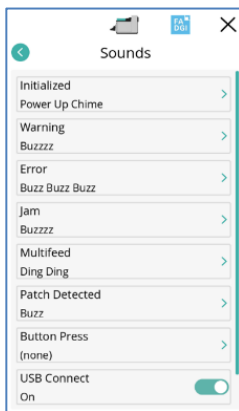


2. Select the desired Volume option. A tone will sound with each selection.
3. Touch the Back button to return to the Settings screen, then touch the Close button to return to the Ready screen.

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. Select **Sounds** to display the Sounds screen.



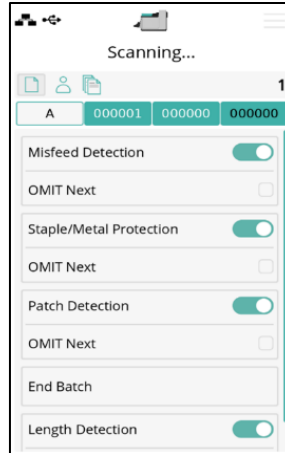
2. Select the event (e.g., Warning, Error, etc.) that you want a tone to be set for. When you select an event, another screen will be displayed listing a variety of different sounds that you can choose from.
3. Select the type of sound you want to hear. A tone will sound with each selection.
4. Return to the Sounds screen to set other sounds for other events by repeating steps 2 and 3.
5. Touch the Back button to return to the Settings screen, then touch the Close button to return to the Ready screen.

Overrides

There are two types of overrides performed while scanning is ongoing:

- **Job overrides:** these overrides are performed during active scanning using the toggle buttons from the Operator Control Panel and include **Printing, Maximum Length Detection** (default is *On*), **Misfeed Detection** (both multifeed and IDP), and **Staple/Metal Protection**.

Any job override feature can be disabled only for the next document if the *OMIT Next* toggle is also activated.

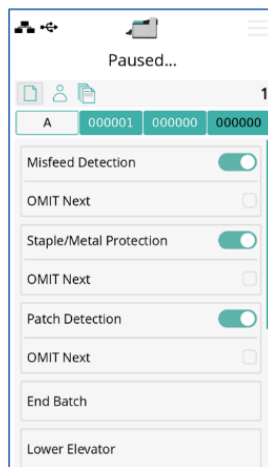


- **Job overrides when paused:** these overrides are performed by pressing the **Pause/Stop** button on the Operator Control Panel and is active only for the current batch of documents. The Overrides option allows you to override your scan job setup for only the **Document Handling** and **Rear Exit** features.

To access the Settings screen at the start of a scan job, the **Automatically start scanning** setting in the scanning application must be disabled. See [Scanning documents](#).

To override a setting:

1. Look at the Paused screen to view the setting you want to override.



NOTE: Swipe up and down the OCP to show all options.

2. Touch the option that you want to override, then touch the Back button to return to the Paused screen and **Start/Resume** to continue scanning.

- **Application overrides:** these are altered via the Settings option. Application overrides stay in place until they are changed. These application overrides are available: **Printing** (if a printer is installed), **Maximum Length Detection, Misfeed Detection, Staple/Metal Protection, Automatically start scanning, Document Handling, Paper Source, Post Scan Rotation, Speed, and Rear Exit.** For more information, see [Application overrides](#).

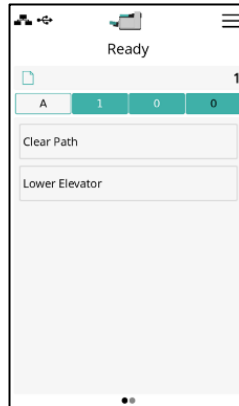
Application Overrides

Application overrides allow you to update scanner settings quickly.

NOTE: When an application override is set, the override will stay in effect until you change it again.

To access any of the application overrides options:

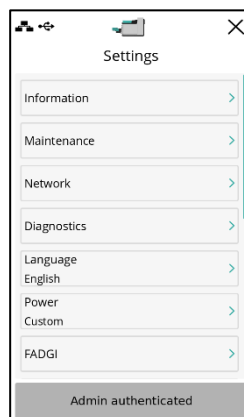
1. Press the Action button from the Ready screen.



2. The unauthenticated Settings screen will be displayed.



3. Administrative authentication is required to access all application overrides.



4. Select the option you want to change.
5. Enable or disable the selected override and touch the Back button to return to the Settings screen. See the following sections for a description of the application overrides options.
6. Touch the Close button on the Settings screen to return to the Ready screen.

Printing

If printing or electronic annotation 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.

Maximum length detection

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

The following chart is a guideline and assumes two-sided scanning with compressed output.

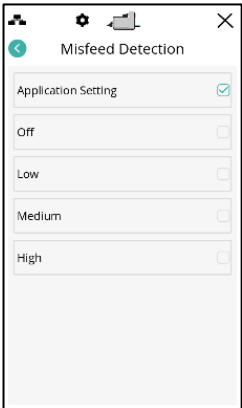
Resolution (DPI)	Output Model	Maximum Length Detection (inches)	
		Compressed	Uncompressed
<200	Bitonal	400	400
	Grayscale	320	400
	Color	320	400
300	Bitonal	400	400
	Grayscale	214	400
	Color	214	400
400	Bitonal	400	400
	Grayscale	160	400
	Color	160	198
600	Bitonal	338	338
	Grayscale	107	338
	Color	107	110

NOTES:

- Setting the maximum length detection longer than is needed may reduce throughput.
- Feeding a document longer than the maximum length detection will result in a document jam error.

Misfeed Detection

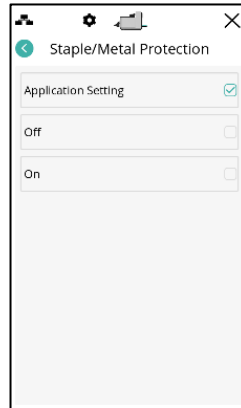
This option provides a combination of several multifeed features of the scanner including multifeed detection sensitivity and intelligent document protection which determines how aggressively the scanner detects documents that enter the scanner incorrectly.



When **Low**, **Medium** or **High** is selected, multifeed detection will be enabled with the Interactive Multifeed action, and the middle three sensors will be turned on. The Intelligent Document Protection feature is also enabled.

Staple/Metal Protection

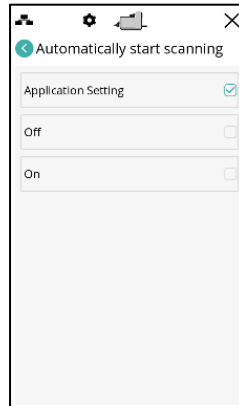
When this option is **On**, the scanner will detect if staples, paper clips, etc. are on a document. This will protect your documents and scanner from damage. When the scanner detects any metal on a document, the scanner will stop which will allow you to remove the metal from the document and continue scanning.



Automatically start scanning

This option overrides the **Auto Start** option that is set in the TWAIN Datasource or ISIS Driver. For more information see the *Scanning Setup Guide for TWAIN*.

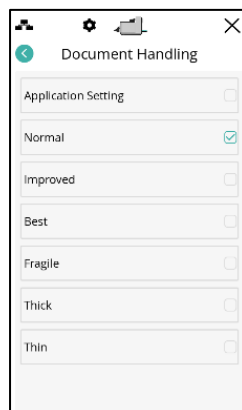
If this option is **Off**, the scanner will go into a paused mode and you can press the **Start/Resume** button on the Operator Control Panel to start scanning.



Document Handling

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

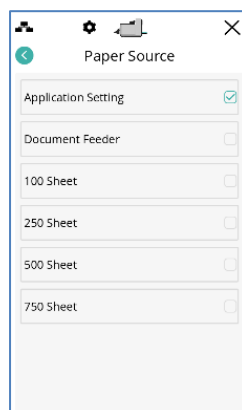
The options displayed on this screen are based on what is set up in your scanning application for the current scan job. The options are: **Normal**, **Improved Stacking**, **Best Stacking**, **Thick**, **Thin** and **Fragile**.



- **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.
- **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.
- **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. Select this option when you are feeding documents of very poor quality.

Paper Source

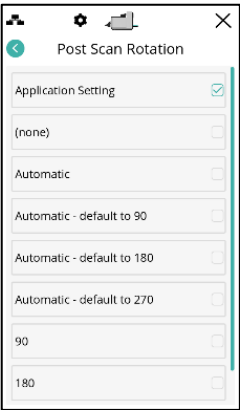
The Paper source option allows you to override the height of the input elevator.



- **Document Feeder** — the input elevator is in the highest position.
- **100 Sheets**
- **250 Sheets**
- **500 Sheets**
- **750 Sheets**

Post Scan Rotation

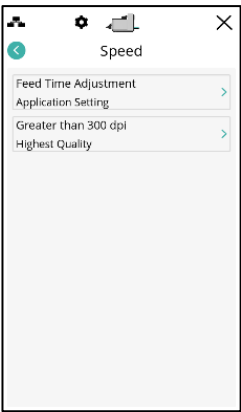
The Post Scan Rotation option allows you to select a rotation option to be applied to the electronic image after is has been scanned.



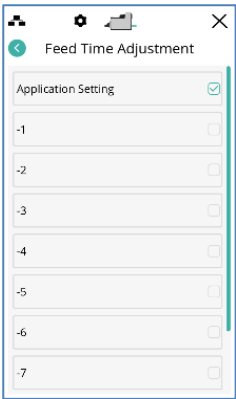
- **(none)**
- **Automatic**
- **Automatic - default to 90**
- **Automatic - default 180**
- **Automatic - default 270**
- **90, 180 or 270 degrees**

Speed

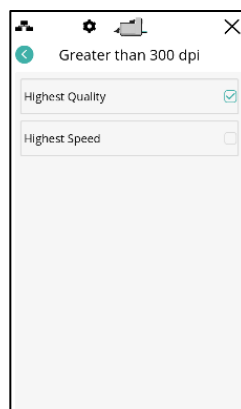
The Speed option provides a menu of options that control how fast pages will be scanned.



- **Feed Time Adjustment** — this option allows you to adjust the scanner’s throughput to match your personal scanning pace.

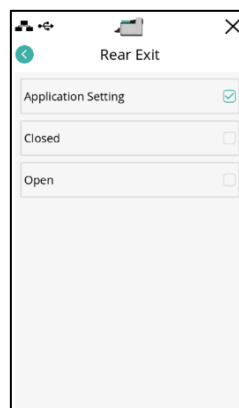


- Select from **-1** to **-9** (lowest speed) to reduce the rate at which pages are fed into the scanner.
- **Greater than 300 dpi** — allows you to select one of the following options:
 - **Highest Quality:** runs the scanner at a slower speed but produces the highest quality image capture at 600 dpi for 400, 500, and 600 dpi output resolutions.
 - **Highest Speed:** runs the scanner at a faster speed but produces a good quality 300 dpi image that can be upscaled to 400, 500, or 600 output resolutions.



Rear Exit

Use this option when you have documents that require special handling (e.g., fragile documents, shipping envelopes, etc.) When scanning these types of documents, the rear exit allows a straight-through paper path that allows documents to easily pass through the transport. If using this option, open the rear exit by touching the checkbox. The touchscreen will indicate that the rear exit is **Open**.

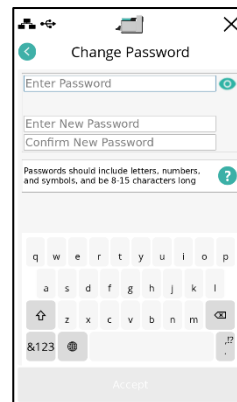


Change Password

This setting allows you to update your password when the characters meet these conditions:

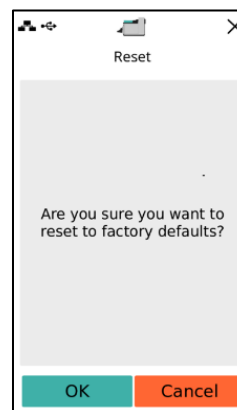
- Minimum 8 characters from three of the following five categories:
 - Uppercase letters A – Z (includes Greek and Cyrillic)
 - Lowercase letters a – z (includes Greek and Cyrillic)
 - Digits 0 – 9
 - Special characters ‘-!"\$%&()*+,-./:;?@[^_`{|}~+=<=>
 - Any other Unicode alphabetic characters (includes Asian languages).

After entering a new password, touch the Back button to return to the Settings screen.



Reset All Settings

When selected, resets all scanner settings to the factory defaults. The Reset Confirmation screen will be displayed.



- Touch **OK** to reset your settings to the factory default settings.
- Setup runs to configure scanner settings after **OK** is pressed.

4 Document Printing

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

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. The front printing occurs before the page is imaged so the printing will be visible in the scanned image of the page. You may only use one printer (either front or rear) at a time, even if both front and rear printers are installed.

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).

Refer to the *Scanning Setup Guide for the TWAIN Datasource*, online at <https://www.kodakalaris.com/scanners> or your scanning application documentation for more information about enabling printing and setting up print strings.

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.
- When both front and rear printers are installed, select the printer to be used by choosing that printer from the OCP settings.
- If you attempt to scan with a job setup that has printing enabled, and the enhanced printer accessory or printer specified in the job setup is not installed, the system defaults to the installed printer.
- The illustrations in this section show the S5160 Scanner. All adjustments for the printer are the same for the S5160, S5180, and S5210 Scanners unless otherwise noted.
- The *Kodak S5000 Series Scanners* also include a digital printing feature that does not require an additional purchase. Digital printing provides all the same options as physical printing but instead of printing on the physical page, the information is embedded in the image files. For more information on digital printing, see the *ISIS Driver*.

Printer specifications

More information about the following specifications can be found in the *Scanning Setup Guide* for the TWAIN Datasource.

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
Print locations (vertical)	Set by the scanning application.
Print orientation	0, 90, 180 and 270 degrees
Font style	Normal, Bold and Extra Bold Font digital printer = Roboto Slab Font Physical print = custom NOTE: Not all languages can support a Bold font based on the complexity of the characters, such as half-width Katakana.
Font size	Ranges from smallest (-5) to largest (+5)
Print side	Front (pre-scan) Rear (post-scan)
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	5 time formats 9 date formats 1 sequential counter: up to 9 digits S5160: 2 index counters S5180: 3 index counters
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 [Supplies and Consumables catalog](#) available at the support website 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

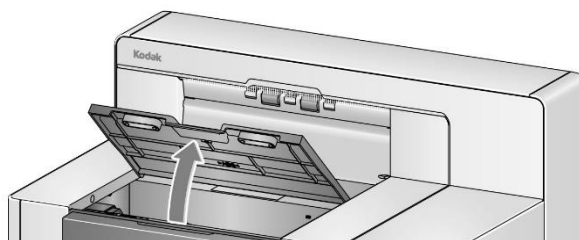
IMPORTANT: Consult the Hewlett-Packard website for recycling printing supplies or dispose of the empty ink cartridge in accordance with all federal, state and local laws.

Accessing the front printer

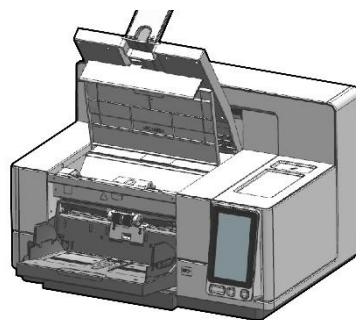
1. Remove the output tray and open the printer access cover.



Continue with [Installing the ink cartridge](#) on the next page.

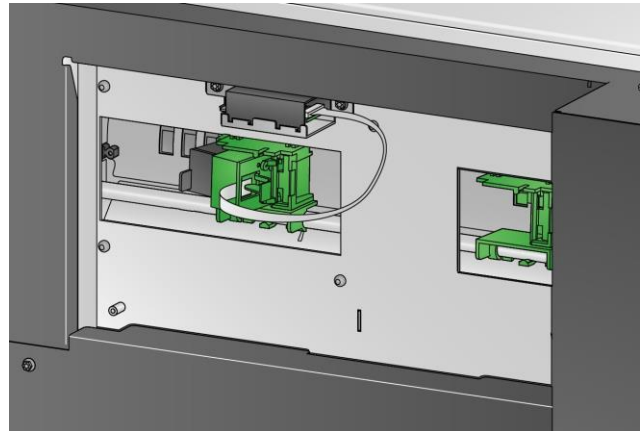
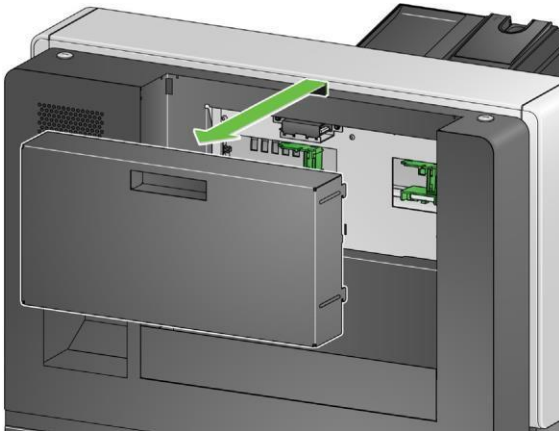


NOTE: If you do not want to remove the output tray, you can lift the front of the output tray, then lift the printer access cover and position the printer access cover behind the height adjustment tab.



Accessing the rear printer (S5210)

1. If the shipping screw has not been removed, remove the screw.
2. Remove the rear access printer door by lifting the door up and out of position.

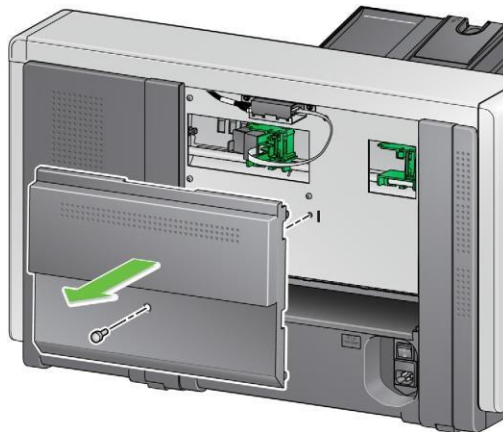


3. Continue with [Installing the ink cartridge](#).

Accessing the rear printer (S5160/S5180)

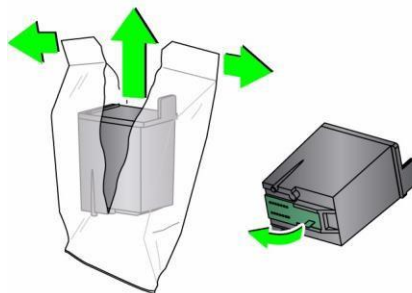
For the tabletop scanner models of S5000:

1. If the shipping screw has not been removed, remove the screw.
2. Remove the rear access printer door by lifting the door up and out of position.

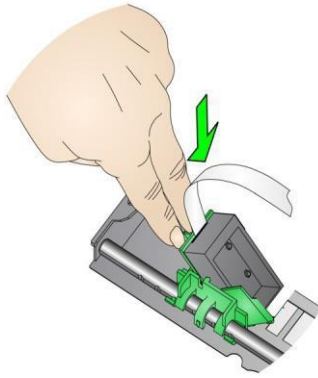


Installing the ink cartridge

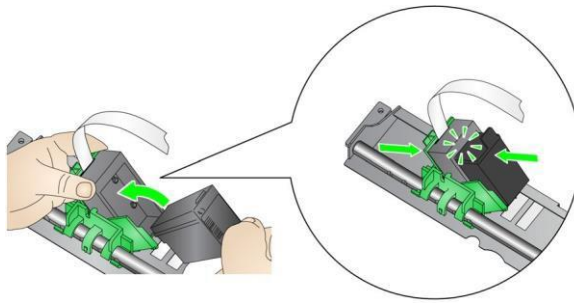
1. Open the ink cartridge package and remove the tab from the new ink cartridge.



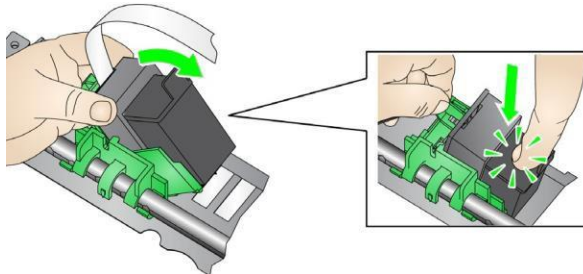
2. Push down on the printer carrier tab to rotate the printer carrier.



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



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



5. Slide the printer carrier into the desired print position. See [Changing print positions](#).
6. Close the printer access cover and reinstall the output tray or if using the rear printer, reinstall the rear access printer door.
7. Run a print test (see [Performing a Print Test](#)).

Changing print positions

The horizontal print position must be changed manually.

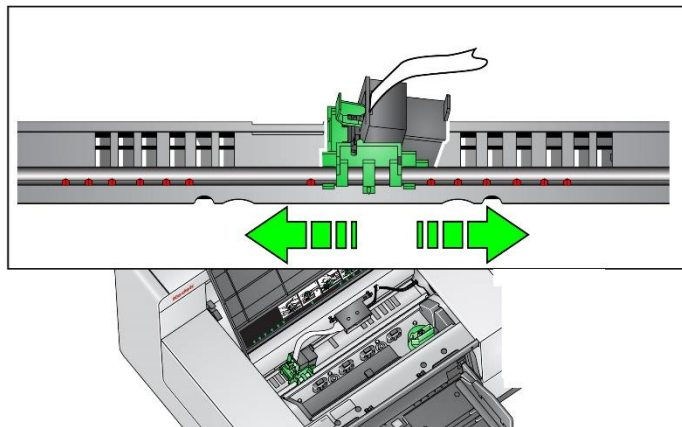
NOTE: These instructions are the same for the front and rear printers. The illustrations shown are for the front printer.

1. Remove the output tray (for front printer only).
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.

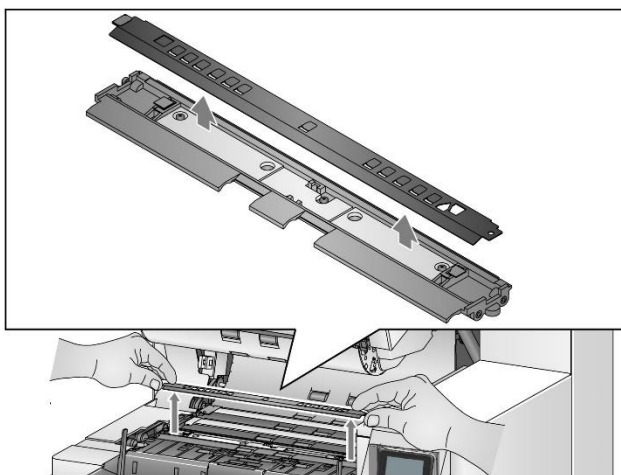
Installing/Replacing the ink blotter strips (Front printer only)

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.

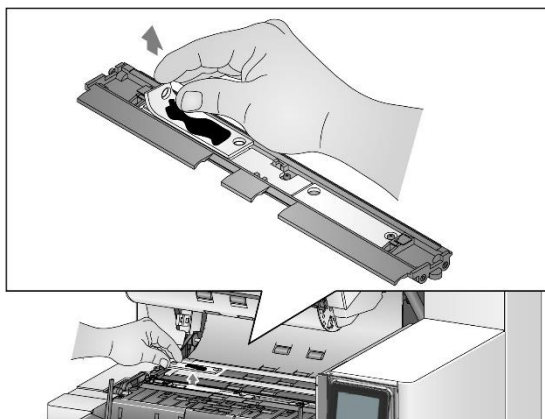
Replace these strips as ink overflow collects on the blotter(s). Depending on your print position, all strips may not need to be replaced at the same time. To order additional ink blotter strips, see the [Supplies and Consumables catalog](#) available from the support website.

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

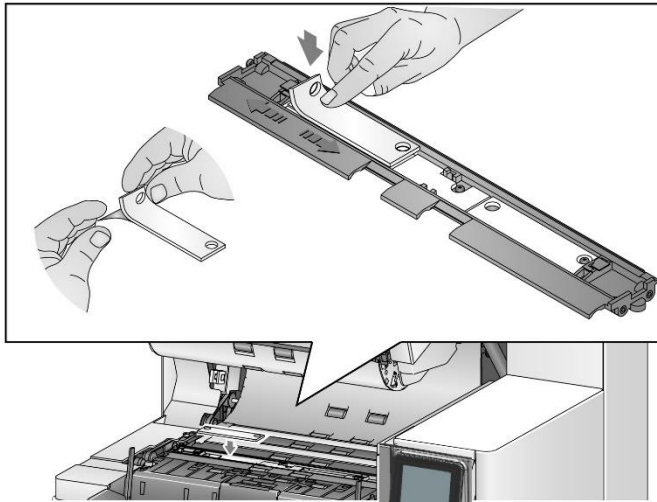
1. Pull the scanner cover release latch forward to release and lift the scanner cover.
2. Remove the black drainage strip from the transport.



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 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.

5 FADGI Scanning

FADGI (Federal Agencies Digital Guidelines Initiative) Scanning

The KODAK S5000 series scanners are compliant with the 3-Star FADGI 2023 Guideline for Documents (Unbound): General Collections* and the MTR standard.

For more detail on FADGI please visit:

<https://www.digitizationguidelines.gov/>

*IMPORTANT: *The S5160, S5180, and S5210 model scanners are FADGI-compliant when scanning through the ADF only. Images created from the integrated flatbed are non-compliant.*

For more information on how to perform FADGI scanning, refer to the supplemental FADGI scanning guide found at:

<https://www.kodakalaris.com/scanners>

6 Sorting and Stacking

Adjusting output trays

This chapter provides information for using output trays for sorting options.

The scanner's output trays can be adjusted to meet your scanning/sorting needs for documents up to 17 inches long. You may need to remove and reinsert the trays for adjustment or maintenance.

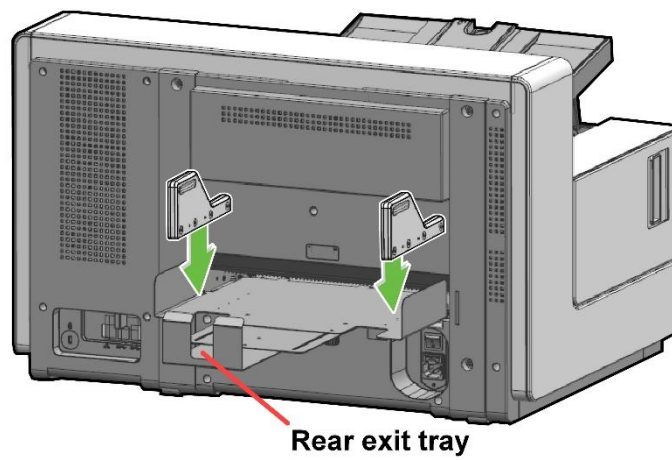
The documents to be specially identified (sorted/stacked) are called the exception documents. The TWAIN Data source, ISIS Driver or your scanning application have settings that change how you can output your documents (e.g., based on size, patch sheets or multifeeds) by using the Sorting/Stacking option and allowing for the exception documents to be sorted to the regular output tray (Tray 1) or the rear exit tray. Check either the scanning setup guide or the online help for more information.

- **Tray 1:** is the default location where the document exits the scanner. This location allows for the largest number of documents in the output tray. It can be used for either the exception documents or the non- exception documents. If most of the documents being scanned are exception documents, then the tray 1 should be selected for the exception tray. Documents will be output in this tray if you do not have any document sorting/stacking options selected in your scanning application. If you need to remove or adjust this tray, see [Adjusting the output tray](#).



Tray 1

- **Rear Exit tray:** located in the rear of the scanner.

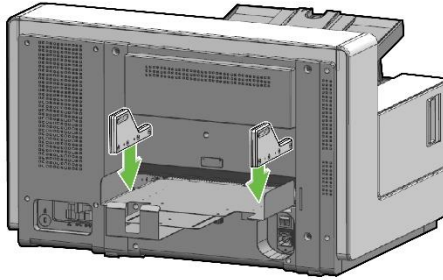


Rear exit tray

Adjusting the side guides of the Rear Exit tray

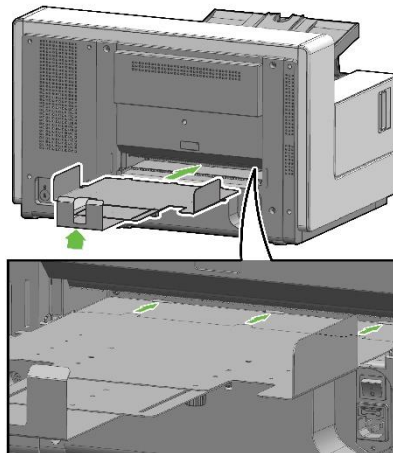
The side guides improve stacking of documents in the output trays. You may need to change the location of the side guides until you find the best stacking of your documents.

Side guides for the rear exit tray on all models are magnetized and can easily slide left or right to accommodate the size of your documents.



Removing the Rear Exit tray

If you need to remove the Rear Exit tray, slightly tilt the tray up and lift it out of the scanner.



Using the dangles

The scanner comes with 3 different-sized, magnetized dangles, which can easily be changed based on the document set you are scanning.

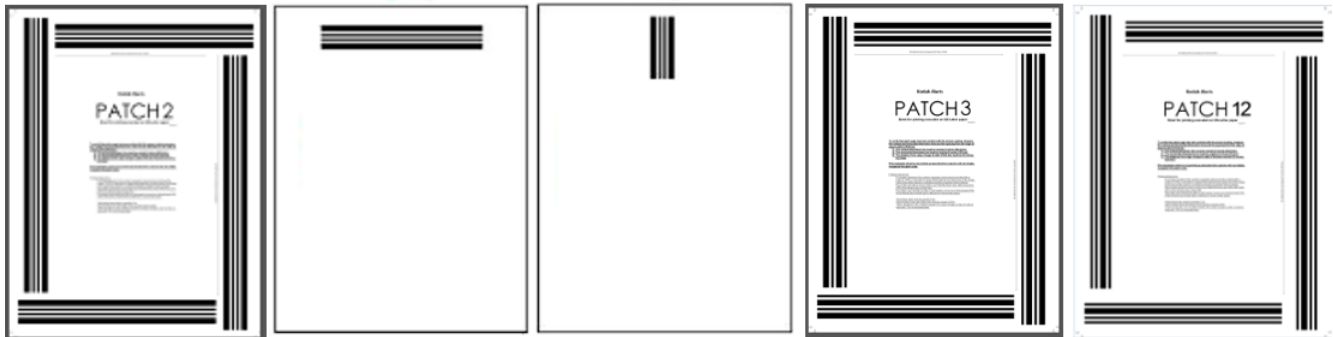
If desired, attach the dangle to the top of the scanner. (The dangle can also be attached for lower tray and rear exits.) The dangle helps align the documents as they are deposited in the output tray. Depending on the document set you are scanning, attach the size of the dangle that meets your needs. The dangle can also be cut to desired length.



7 Patch Reading

What are patch pages?

Patch pages contain patch codes that are typically used as document separators when scanning. A patch code is a pattern of parallel, alternating black bars and spaces that is printed on a document. The patch pages, when scanned, instruct the scanner or scanning application to trigger a feature of the scanner or scanning application. Patch pages may have different patterns of bars and can have different formats.



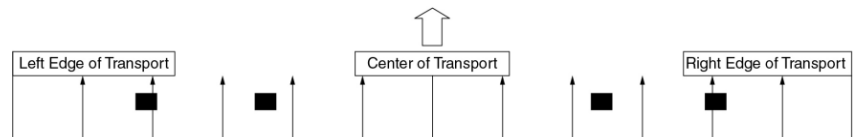
Sample PDF files of the patch pages are available for download from the Kodak Alaris website: <https://www.kodakalaris.com/scanners>.

NOTE: These PDF versions 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.

Where are patch pages read?



- **Method 1:** Using the cameras to read patches vertically. *Vertical* in this document means the bars of the patch pattern are aligned with how the document is fed into 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 on it 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 how the document is fed into 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 a 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.

Patch reader locations as offset from the center of the scanner's transport.

Left	- 4 1/8 th inch
Left Center	- 2 7/16 th inch
Right Center	+ 2 7/16 th inch
Right	+ 4 1/8 th inch

The *Kodak S5000* Scanners read patch patterns differently depending on your scanner model and what features are enabled.

S5160 Scanners

- **Intelligent printing – Patch Counting:** patches 1, 2, 3, 5, 6 are read by the hardware patch readers in the scanner in horizontal orientation only.
- **Color Toggle:** color toggle patches are read by the cameras in vertical orientation or horizontally by the hardware patch readers in the scanner which prevents printing on the patch pages.
- **Scanner Control:** patches 10, 11, 12, 13, 14, 15 are read by the scanner hardware patch readers in the scanner in horizontal orientation only.

S5180 Scanners

- **Intelligent printing – Patch Counting:** patches 1, 2, 3, 5, 6 are read by the hardware patch readers in the scanner in horizontal orientation only.
- **Intelligent printing – Indexing:** patches 1, 2, 3, 5, 6 are read by the hardware patch readers in the scanner in horizontal orientation only.
- **Color Toggle:** color toggle patches are read by the cameras in vertical orientation or horizontally by the hardware patch readers in the scanner which prevents printing on the patch pages.
- **Scanner Control:** patches 10, 11, 12, 13, 14, 15 are read by the hardware patch readers in the scanner in horizontal orientation only.

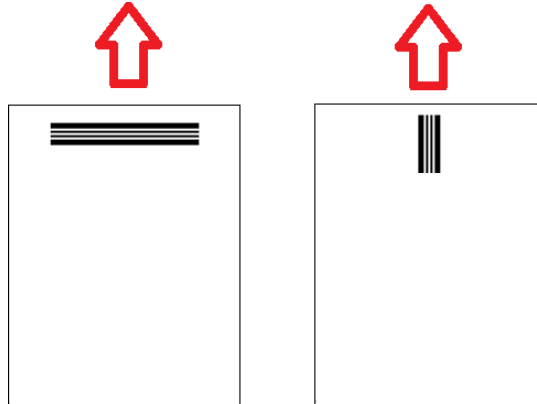
S5210 Scanners

- **Intelligent printing – Patch Counting:** patches 1, 2, 3, 5, 6 are read by the hardware patch readers in the scanner in horizontal orientation only.
- **Intelligent printing – Indexing:** patches 1, 2, 3, 5, 6 are read by the hardware patch readers in the scanner in horizontal orientation only.
- **Intelligent printing – Image Addressing:** patches 1, 2, 3, 5, 6 are read by the hardware patch readers in the scanner in horizontal orientation only.
- **Color Toggle:** color toggle patches are read by the cameras in vertical orientation or horizontally by the hardware patch readers in the scanner which prevents printing on the patch pages.
- **Scanner Control:** patches 10, 11, 12, 13, 14, 15 are read by the hardware patch readers in the scanner in horizontal orientation only.

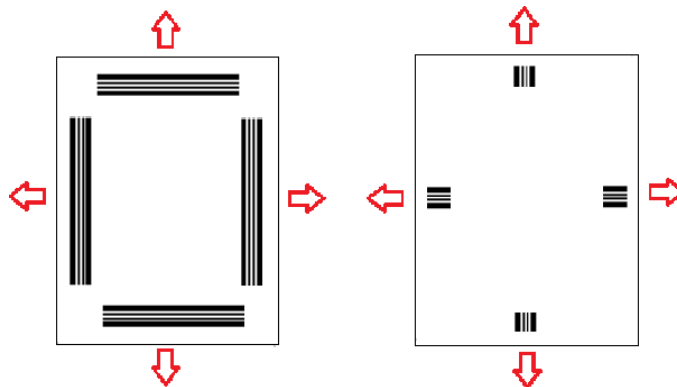
Patch code requirements

There are 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 a patch page, see the *Scanning Setup Guides* for TWAIN and ISIS or your scanning application documentation.

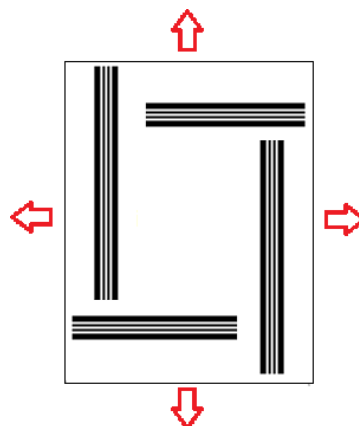


To enable feeding in any direction it is common that patch pages are created with patch patterns on each edge of the page.



Color Toggle patch

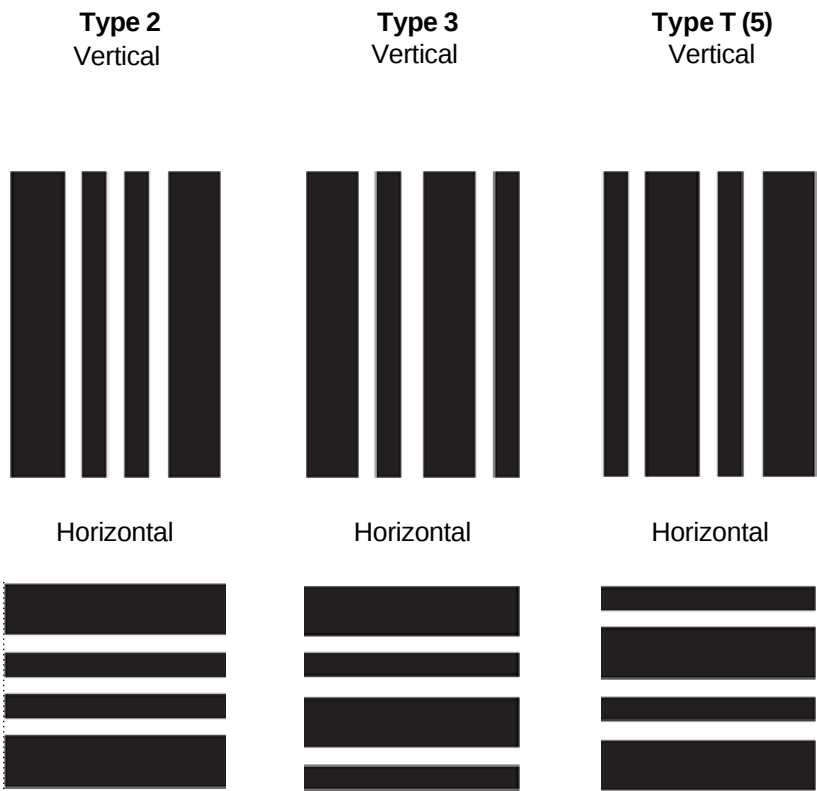
It is also possible to create a patch page that can be used on any *Kodak* Scanner with bar patterns that will be read consistently with camera patch reading or hardware patch reading.



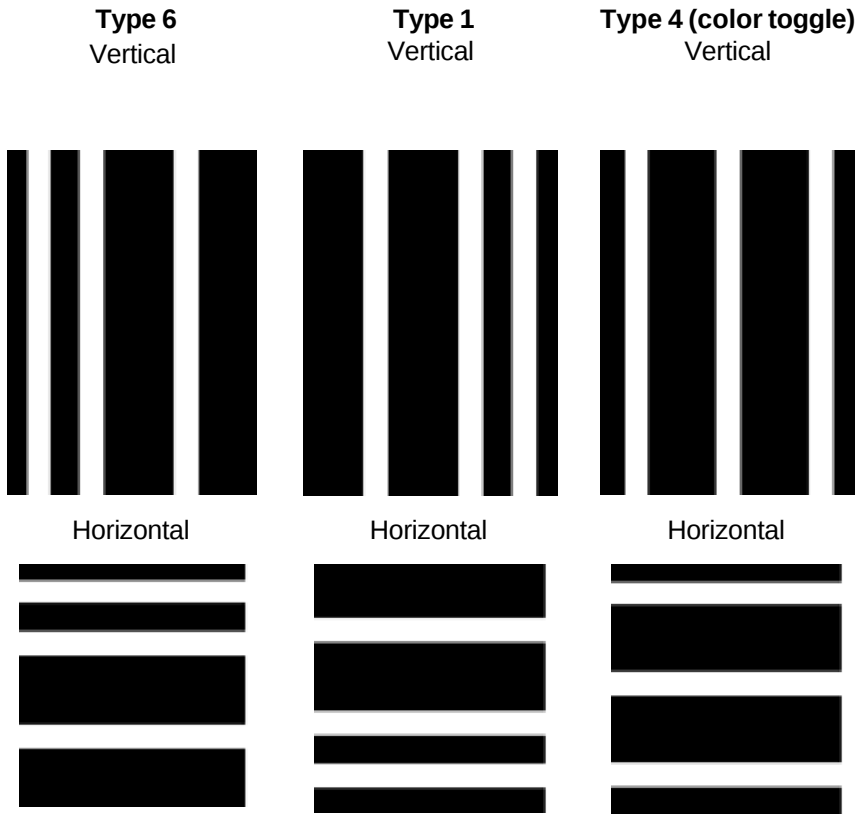
Patch pattern details

There are three 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.

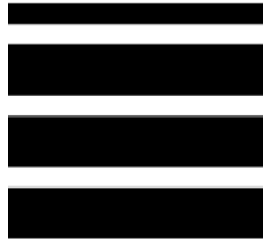
- **Scanner Control patches** — these patch pages are new with the *Kodak S5000* Scanners and were created to be used to control scanner features.

These patches are: Type 10, Type 11, Type 12, Type 13, Type 14 and Type 15..

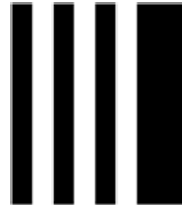
Type 10
Vertical



Horizontal



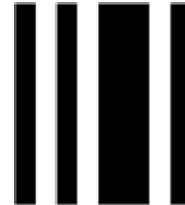
Type 11
Vertical



Horizontal



Type 12
Vertical



Horizontal



Type 13
Vertical



Horizontal



Type 14
Vertical



Horizontal



Type 15
Vertical



Horizontal



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.

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 needs to be very tightly controlled to ensure that the scanner detects the bar pattern.

- The wide bars must be 0.20 (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 dependent on the number of wide and narrow bars for any given patch pattern.
- The minimum overall length of the patch bars is 2 inches (50 mm).

The following table summarizes the patch code patterns used by *Kodak* Scanners:

Patch Code Type	Graphic Pattern	Description	Maximum Width
0	No code detected		
1	WWnn	Kodak Patch Code #1	0.8 +/- 0.01
2	WnnW	Kodak Patch Code #2	
3	WnWn	Kodak Patch Code #3	
4	nWWn	Kodak Patch Code #4	
5	nWnW	Kodak Patch Code #5	
6	nnWW	Kodak Patch Code #6	
7	WWWn	Kodak Patch Code #7	0.92 +/- 0.01
8	WWnW	Kodak Patch Code #8	
9	WnWW	Kodak Patch Code #9	
10	nWWW	Kodak Patch Code #10	
11	nnnW	Kodak Patch Code #11	0.68 +/- 0.01
12	nnWn	Kodak Patch Code #12	
13	nWnn	Kodak Patch Code #13	
14	Wnnn	Kodak Patch Code #14	
15	WWWW	Kodak Patch Code #15	1.04 +/- 0.01

For example, a Patch 1 is **WWnn**:



Wide bar followed by a space then another **Wide** bar followed by a space and then a **narrow** bar followed by a space then a **narrow** bar.

Indexing or image address patch codes

Patch 2 Intelligent Print usage 	• Patch counting: can be used to increment or reset a patch. • Indexing: Patch 2 is the only patch that can be used for indexing. • Full image addressing: assigns image level 2 to the <i>current</i> document.
Patch 3 Intelligent Print usage 	• Patch counting: can be used to increment or reset a patch. • Indexing: Patch 2 is the only patch that can be used for indexing. • Full image addressing: assigns image level 3 to the <i>current</i> document.
Patch T / Transfer Patch / Patch 5 Intelligent Print usage 	• Patch counting: can be used to increment or reset a patch. • Indexing: Patch 2 is the only patch that can be used for indexing. • Full image addressing: assigns image level 2 or 3 to the <i>next</i> document.

Feature patch codes

Patch 1 Intelligent Print usage 	Can be used to trigger scanning application unique features. • Patch counting: can be used to increment or reset a patch. • Indexing: not used. • Full image addressing: not used.
Color Toggle Patch / Patch 4 Intelligent Print usage 	Can be used to trigger scanning application unique features. • Patch counting: can be used to increment or reset a patch. • Indexing: not used. • Full image addressing: not used.
Patch 6 Intelligent Print usage 	Can be used to trigger scanning application unique features. • Patch counting: can be used to increment or reset a patch. • Indexing: not used. • Full image addressing: not used.

Scanner Control patch codes

Can be used to control scanner features.

Intelligent Print usage:

Patch counting: not used.

Indexing: not used.

Full image addressing: not used.

Patch 10



Patch 11



Patch 12



Patch 13



Patch 14



Patch 15



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 or fluorescent 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 affect the size of black bars and white spaces, thus altering the print specifications. A photocopier with the scale set to 100% should be acceptable.
- **Paper size** — the length and width of the patch pages should be 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.

8 Maintenance

This chapter describes the required cleaning and maintenance procedures for the *Kodak S5000* Scanners. The frequency of performing 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* below for cleaning guidelines. However, you will need to determine what works best for you. Many years of production scanning experience have proven that properly cleaning and maintaining your scanner will result in scanning more paper in less time with fewer issues. A properly maintained S5000 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 S5160 Scanner. All adjustments are the same for the S5160, S5180, and S5210 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
Clean ultrasonic document detection sensors (UDDS)	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 (*Staticide* wipes are not available in all countries)
- Brillianize Detailer Wipes for *Kodak* Scanners
- A vacuum cleaner and tools
- Cotton swabs

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 cleaning.
- 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 Safety Data Sheet (SDS) for more information. The SDS is available on the website at:
<https://corporate.kodakalaris.com/about-us/environment,-health-and-safety/safety-data>.

NOTE: To access the SDS, you will need to provide the catalog number or keyword of the supply. See the [Supplies and Consumables catalog](#) available from the support website for catalog numbers.

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

Vacuuming the output tray and input elevator

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

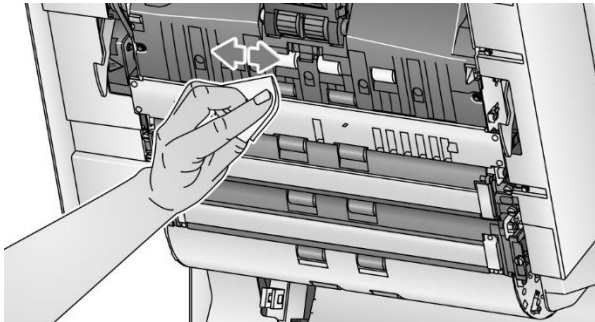


3. Thoroughly vacuum the output tray, the output tray area and the input elevator area.

Cleaning the rollers

Cleaning the rollers includes all 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.



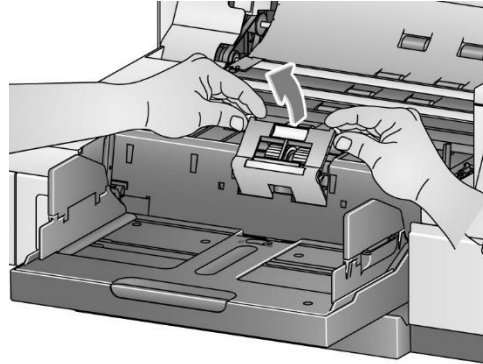
NOTE: Do not use Staticide wipes or Brilliantize Detailer wipes to clean the rollers.

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

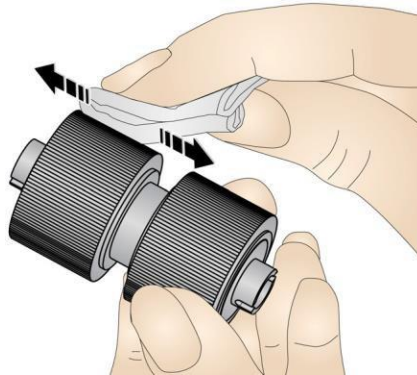
Cleaning the separation roller tires

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

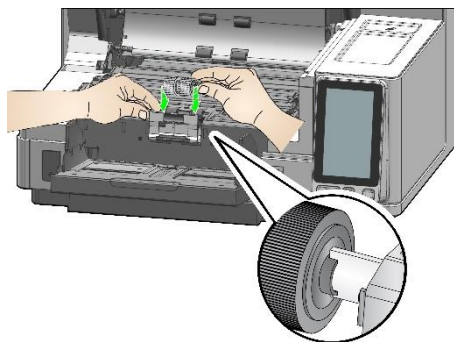
NOTE: The separation roller cover is spring-loaded. Hold the separation roller cover back until you remove the separation roller, then gently lower the separation roller cover back in place.



2. 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.

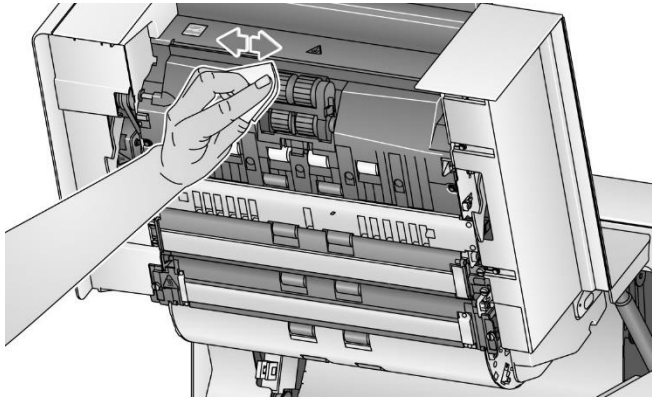


3. Inspect the tires. If the tires show signs of wear or damage, replace the tires. See [Replacement procedures](#).
4. Reinstall the separation roller by aligning the slots on the separation roller with the holders.



Cleaning the feed module tires

1. 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 to remove any residue between the ribs. You do not need to remove the feed module to clean the tires.

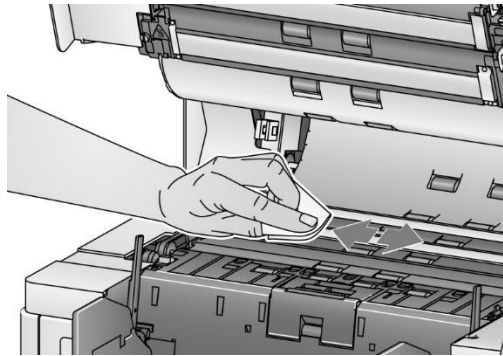


NOTE: Do not use Staticide wipes or Brilliantize Detailer wipes to clean the feed module tires.

2. Inspect the tires. If the tires show signs of wear or damage, replace the feed module tires. See [Replacement procedures](#).

Cleaning the flippable white background strips

1. Wipe the upper and lower background strips with a Staticide wipe or a “Step 1” Brilliantize Detailer wipe.

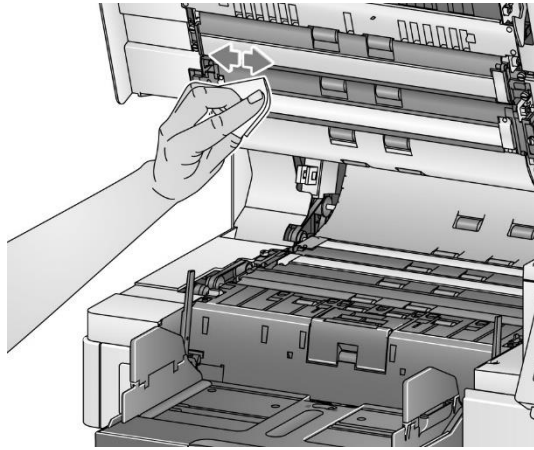


NOTE: Be careful not to touch the transport rollers.

2. Wipe the upper and lower background strips again with an almost-dry Staticide wipe or a “Step 2” Brilliantize Detailer wipe to remove any streaks.

Cleaning the imaging guides

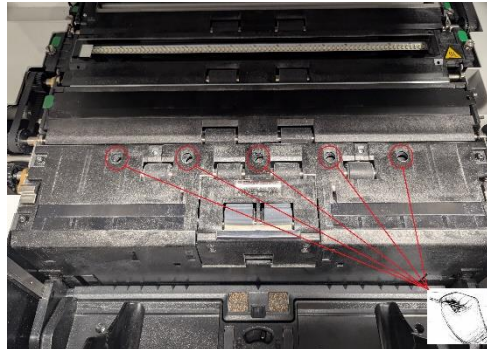
1. Wipe the upper and lower imaging guides with a Staticide wipe or a “Step 1” Brilliantize Detailer wipe.



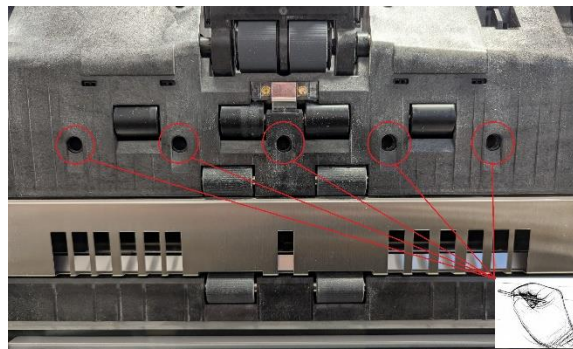
2. Wipe the upper and lower imaging guides again with an almost-dry Staticide wipe or a “Step 2” Brilliantize Detailer wipe to remove any streaks.

Cleaning the document detection sensors

1. Locate the five sensor openings in the lower transport.
2. Insert a clean cotton swab into the first opening and rotate gently to clean the sensor surface.
3. Repeat step 2 using a new cotton swab for each of the remaining four lower transport sensors.



4. Locate the five sensor openings in the upper transport.
5. Insert a clean cotton swab into the first opening and rotate gently to clean the sensor surface.
6. Repeat step 5 using a new cotton swab for each of the remaining four upper transport sensors.



7. Close the scanner cover.
8. 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.

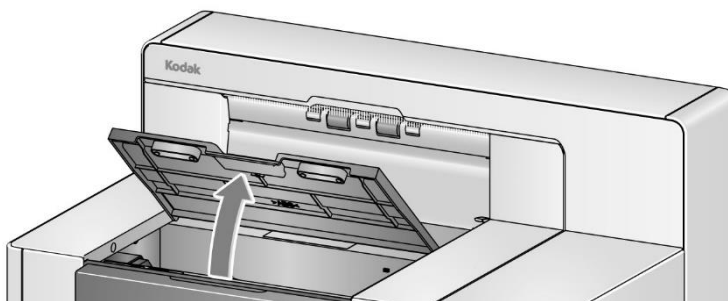
Meters should be maintained by the operator and reset when consumables are changed. The meters do not reset automatically when a consumable is changed. Meters show the number of pages scanned. For more information on viewing and using the Maintenance meters see [Viewing the Maintenance Meters](#).

NOTE: When replacing parts, turn off the scanner.

Replacing the feed module or feed module tires

First, release the feed module.

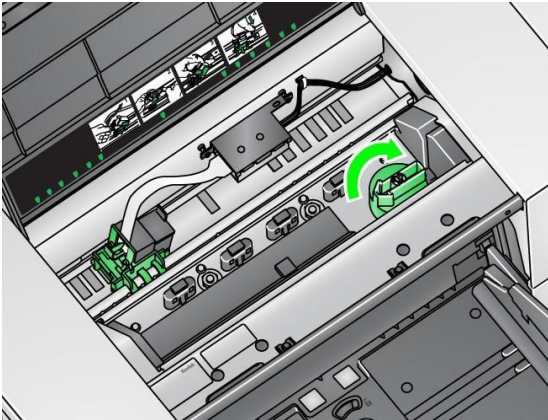
1. Remove the output tray.
2. Lift up and open the printer access cover.



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.

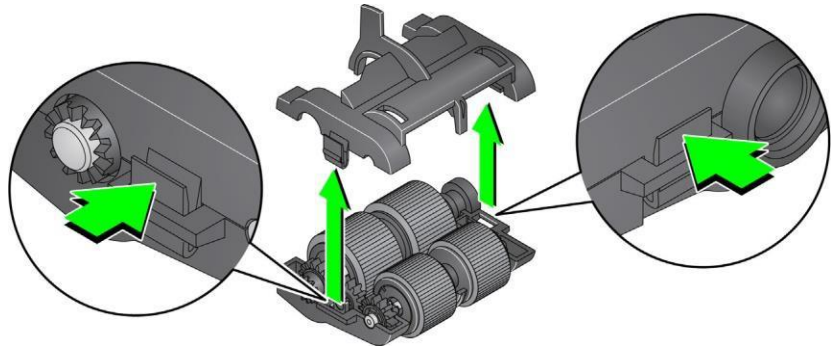


3. Turn the feed module release knob to the *Unlock* symbol and release the feed module.

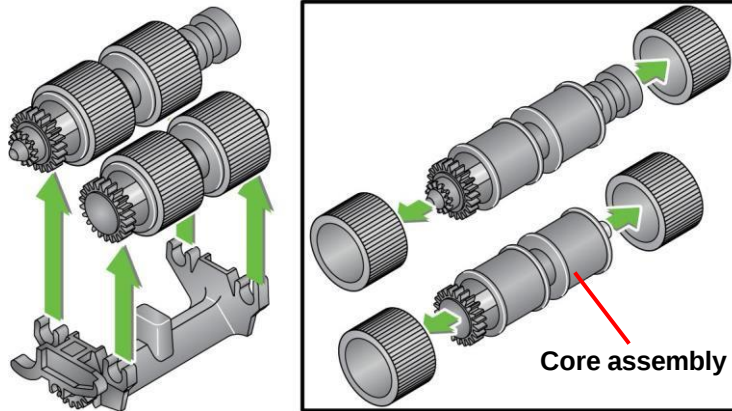


4. If you are just replacing the feed module, go to step 11. If you are replacing the tires, proceed with steps 5 - 10.

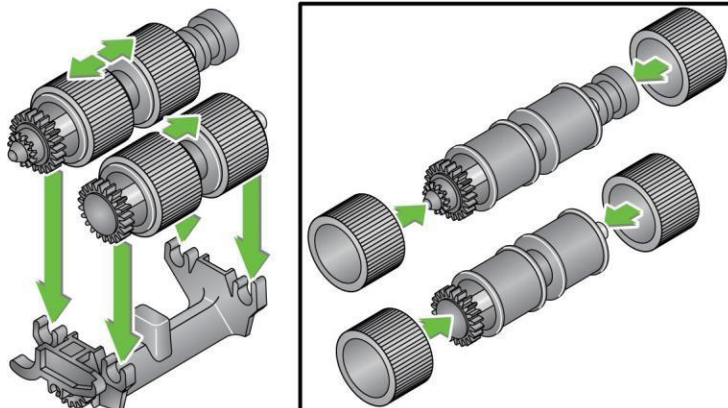
5. With one hand, press the locking tabs (one on each side) while holding the lower housing with the other hand. Pull the upper housing up and away from the rollers.



6. Remove both rollers.
7. Remove each tire by sliding the tire off the core assembly.

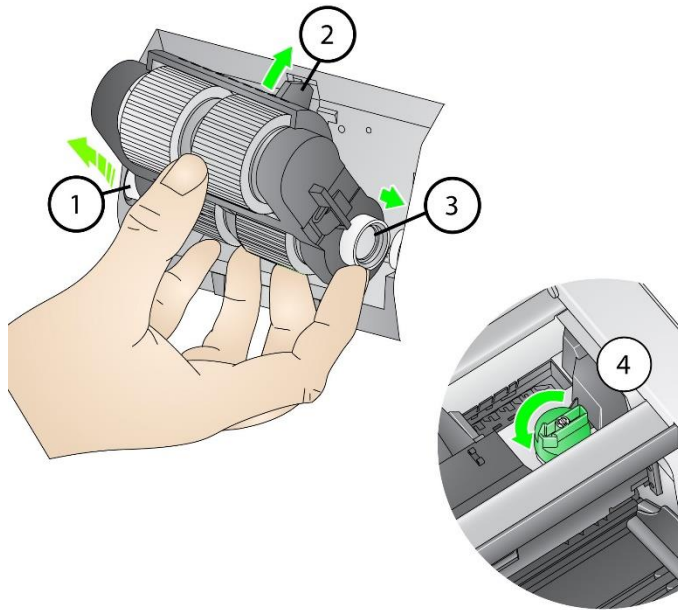


8. Install each new tire by gently pulling it over the core assembly. The tires do not need to be installed in any specific orientation.
IMPORTANT: Do not overstretch the tire; it may tear.
9. Replace each roller in the lower feed module housing and align the tabs on the upper housing with the slots on the lower housing.



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

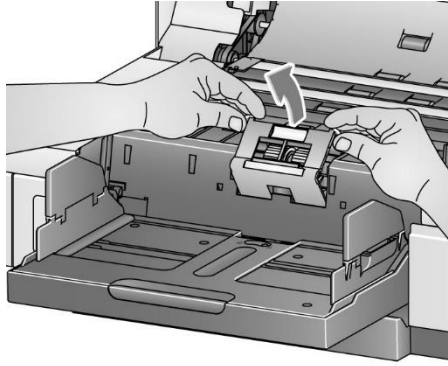
11. Insert the pin on the left side of the feed module with the rod (1); align the upper tab with the slot (2); align the pin on the right side of the feed module with the rod (3) and turn the green feed module release knob so that it points to the *Locked* symbol on the left (4) to re-engage the feed 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 (see [If you want to reset a maintenance meter](#)) and touch the **Reset** icon to reset the Feed Tires/Feed Module meter.

Replacing the separation roller or separation roller tires

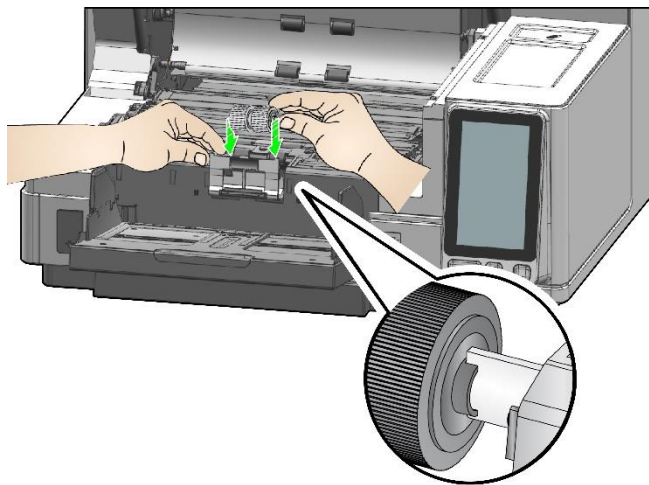
1. Open the scanner cover.
2. Pull the separation roller cover forward and remove the separation roller.



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 roller, complete 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.

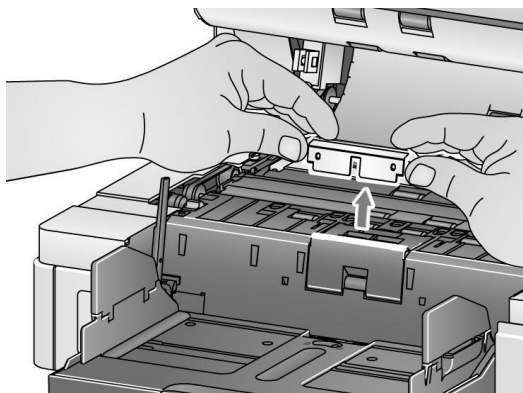
To replace the tires:

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 (see [If you want to reset a maintenance meter](#)) 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 snugly in place; therefore, a little force may be required to remove it.



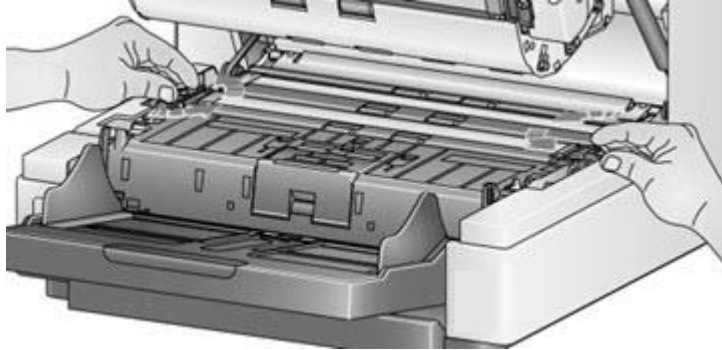
3. Install the new pre-separation pad. Be sure it snaps into place.
4. Close the scanner cover.
5. When finished, access the Maintenance meters on the Operator Control Panel (see [If you want to reset a maintenance meter](#)) and touch the **Reset** icon to reset the Pre-separation pad meter.

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 to not put fingerprints on the guides.

1. Open the scanner cover.
2. Loosen the screws on each end of the lower imaging guide and remove it from its position.

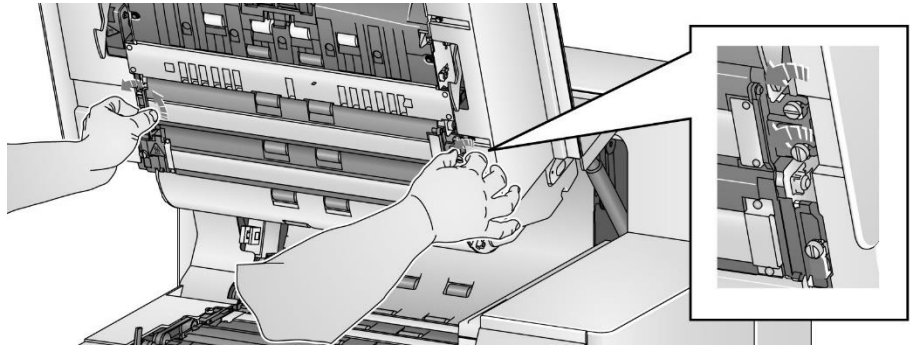


3. Install the new imaging guide and hand tighten the screws to secure the imaging guide.
4. Repeat steps 2 and 3 to replace the upper imaging guide.
5. Close the scanner cover.

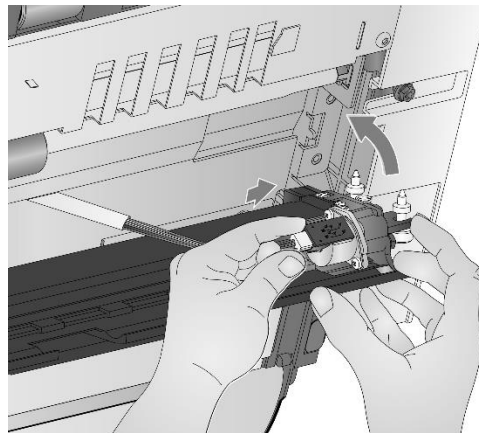
Replacing the flippable white background strip(s)

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, 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 hand 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 3 - 6 to replace the lower background strip.
8. Close the scanner cover.

9 Troubleshooting

Self-help for problems

Please visit the troubleshooting page online at <https://www.kodakalaris.com/scanners/S5180-scanner/support/faqs> as a guide for possible solutions to problems you may encounter when using the KODAK S5160/S5180/S5210 scanners.

Upgrading software

Kodak Alaris frequently updates drivers and firmware to correct issues and add new features. If you are experiencing repeated error messages, for example, you should upgrade to the latest driver before contacting Service. Go to: <https://www.kodakalaris.com/scanners/S5180-scanner/support/drivers-software> and download the most recent upgrade.

Contacting Service

1. Visit <https://www.kodakalaris.com/contact-us> 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 Regulatory Information

Notes

Untranslated information in this section only applies to customers in those regions.

The *KODAK S5160/S5180/S5210* Scanners are for business/commercial use.

Environmental information

- The *KODAK S5160/S5180/S5210* Scanner is designed to meet worldwide environmental requirements.
- Disposal of this equipment may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or, in the USA, visit: AlarisWorld.com/go/scannerrecycling.
- Guidelines are available for the disposal of consumable items that are replaced during maintenance or service; follow local regulations or contact Kodak Alaris locally for more information.
- The product packaging is recyclable.
- *KODAK S5160/S5180/S5210* Scanners are Energy Star compliant and shipped from the factory with the default time set to 15 minutes.
- The *KODAK S5160/S5180/S5210* Scanners are for business/commercial use.

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 Alaris representative or refer to kodakalaris.com/go/recycle for additional information on the collection and recovery programs available for this product.

Please consult 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).

有毒有害物质或元素名称及含量标识表

Table of hazardous substances' name and concentration

部件名称 Component name	有毒有害物质或元素 hazardous substances' name									
	铅 (Pb) 0.1%	汞 (Hg) 0.1%	镉 (Cd) 0.01%	六价铬 (Cr6+) 0.1%	多溴联苯 (PBB) 0.1%	多溴二苯醚 (PBDE) 0.1%	邻苯二甲酸二 丁酯 (DBP) 0.1%	邻苯二甲 酸苝丁酯 (BBP) 0.1%	邻苯二甲酸二 (2-乙基己基)酯 (BEHP) 0.1%	邻苯二甲酸二 异丁酯 (DIBP) 0.1%
适配器 (AC Adapter)	X	O	O	O	O	O	O	O	O	O
电路板 Circuit Board	X	O	O	O	O	O	O	O	O	O

O: 该有毒有害物质在该部件所有均质材料中的含量均在 GB 26572-2025规定的限量要求以下。
X: 该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB 26572-2025 规定的限量要求。
O: indicates hazardous substance concentration lower than MCV
X: indicates hazardous substance concentration higher than MCV

10

环保使用期限 (EFUP)

在中国大陆，该值表示电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变，用户使用此产品不会对环境造成严重污染或对人身、财产造成严重损害的期限（以年计）。
该值根据操作说明中所规定的产品正常使用条件而定

Environment-Friendly Use Period (EFUP)

In mainland China, this number indicates the time period (calculated by year) within which any hazardous substances present in the product are not expected to be released such that there is risk to human health, property, or the environment.

This value is assigned based on normal use of the product as described in the operating instructions.

Taiwan:

設備名稱：掃描器 Equipment name		型號 (型式) ： KODAK S5160 Scanner / KODAK S5180 Scanner / Type designation (Type) KODAK S5210 Scanner /				
單元Unit	限用物質及其化學符號 Restricted substances and their chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
AC適配器 AC Adapter	—	○	○	○	○	○
離合器 Clutch	—	○	○	○	○	○
內存模塊 Motor	—	○	○	○	○	○
鏡片 Lens	—	○	○	○	○	○
電阻 Resistor	—	○	○	○	○	○
壓鑄框架 Die Cast Frame	—	○	○	○	○	○
電路板組件 Circuit Board Assembly	—	○	○	○	○	○
輸入/輸出托盤 Input/Output Trays	○	○	○	○	○	○
塑料蓋和零件 Plastic Covers and Parts	○	○	○	○	○	○
控制面板 Control Panel	○	○	○	○	○	○
傳感器 Sensors	○	○	○	○	○	○
進料和分離模塊 Feed and Separation Modules	○	○	○	○	○	○
紙張傳感器 Paper Sensors	○	○	○	○	○	○
端口 Ports	○	○	○	○	○	○
打印機附件 Printer Accessory	○	○	○	○	○	○

備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。

Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “—” 係指該項限用物質為排除項目。

Note 3: The “—” indicates that the restricted substance corresponds to the exemption.

EMC statements for the KODAK S5160/S5180 Scanners

United States: This device corresponds with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: 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.

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 equipment. Although this equipment is intended for use in a residential environment, it could cause poor reception if used near a radio or a television receiver. Please follow instructions in the instruction manual.

この装置は、クラスB機器です。この装置は、住宅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。

VCCI-B

EMC statements - for the Kodak S5210 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 equipment is a Class A product. If using this device in a residential environment may cause radio interference. In this case, the user may be required to take appropriate measures.

この装置は、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
と電波妨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。 VCCI-A

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：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

Peoples Republic of China: WARNING: Operation of this equipment in a residential environment could cause radio interference.

警告：
在居住环境中，运行此设备可能会造成无线干扰。

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.

Specifications

SPECIFICATION	S5160	S5180	S5210
Throughput Speeds	160 ppm / 320 ipm	180 ppm / 360 ipm	210 ppm / 420 ipm
Feeder Capacity	Up to 750 sheets of 80 g/m ² (20 lb.) paper	Up to 750 sheets of 80 g/m ² (20 lb.) paper	Up to 750 sheets of 80 g/m ² (20 lb.) paper
Connectivity	10/100/1000 ETHERNET USB 3.2 Gen 1x1 Compatible (USB 3.2 Gen 1x1 = USB 3.1 Gen 1 = USB 3.0 (5Gbps))	10/100/1000 ETHERNET USB 3.2 Gen 1x1 Compatible (USB 3.2 Gen 1x1 = USB 3.1 Gen 1 = USB 3.0 (5Gbps))	10/100/1000 ETHERNET USB 3.2 Gen 1x1 Compatible (USB 3.2 Gen 1x1 = USB 3.1 Gen 1 = USB 3.0 (5Gbps))
Maximum Document Size	305 mm x 4.06 m (12 in. x 160 in.) (These scanners support continuous scan mode)	305 mm x 4.06 m (12 in. x 160 in.) (These scanners support continuous scan mode)	305 mm x 4.06 m (12 in. x 160 in.) (These scanners support continuous scan mode)
Acoustical Noise	Off or Ready mode: < 44 dB(A) Scanning: <70 dB(A)	Off or Ready mode: < 44 dB(A) Scanning: <70 dB(A)	Off or Ready mode: < 44 dB(A) Scanning: <70 dB(A)
Dimensions & Weight	Size with tray in the upright position: Height: 436.4 mm / 17.18 in. Width: 693.5 mm / 27.30 in. Depth: 554.2 mm / 21.82 in. Weight: < 135 lbs / 62 kg	Size with tray in the upright position: Height: 436.4 mm / 17.18 in. Width: 693.5 mm / 27.30 in. Depth: 554.2 mm / 21.82 in. Weight: < 135 lbs / 62 kg	Size with tray in the upright position: Height: 1056.3 mm / 41.59 in. (Pedestal Lowered - Wheels) Height: 1088.3 mm / 42.85 in. (Pedestal Lowered - Leveling Feet Fully Deployed) Height: 1310.3 mm / 51.59 in. (Pedestal Raised - Wheels) Height: 1342.3 mm / 52.85 in. (Pedestal Raised - Leveling Feet Fully Deployed) Width: 693.5 mm / 27.30 in. Depth: 826.5 mm / 32.54 in. (With Workshelf) Depth: 620.2 mm / 24.42 in. (Without Workshelf) Weight: < 450 lbs / 205 kg
Electrical Requirements	100-240 V (International); 50-60 Hz	100-240 V (International); 50-60 Hz	100-240 V (International); 50-60 Hz
Environmental Certification	2013 EuP ENERGY STAR Qualified EPEAT Gold	2013 EuP ENERGY STAR Qualified EPEAT Gold	2013 EuP ENERGY STAR Qualified EPEAT Gold
File Format Outputs (from scanner and software)	BMP JPEG Single-page TIFF Microsoft Excel Microsoft Word Multipage TIFF PDF Text searchable PDF PNG RTF LZW	BMP JPEG Single-page TIFF Microsoft Excel Microsoft Word Multipage TIFF PDF Text searchable PDF PNG RTF LZW	BMP JPEG Single-page TIFF Microsoft Excel Microsoft Word Multipage TIFF PDF Text searchable PDF PNG RTF LZW
Image Output Resolution Options (DPI)	50, 75, 100, 150, 200, 240, 250, 260, 300, 400, 500, 600	50, 75, 100, 150, 200, 240, 250, 260, 300, 400, 500, 600	50, 75, 100, 150, 200, 240, 250, 260, 300, 400, 500, 600
Operating System Compatibility	WINDOWS 11 (64 bit) (Pro Version) WINDOWS 10 (32- and 64-bit) WINDOWS Server 2016 X64 Editions WINDOWS Server 2019 X64 Editions WINDOWS Server 2022 X64 Editions	WINDOWS 11 (64 bit) (Pro Version) WINDOWS 10 (32- and 64-bit) WINDOWS Server 2016 X64 Editions WINDOWS Server 2019 X64 Editions WINDOWS Server 2022 X64 Editions	WINDOWS 11 (64 bit) (Pro Version) WINDOWS 10 (32- and 64-bit) WINDOWS Server 2016 X64 Editions WINDOWS Server 2019 X64 Editions WINDOWS Server 2022 X64 Editions
Operating Temperature / Operating Humidity	Operating Temperature 15-35° C (59-95° F) Operating Humidity 15% - 80% RH	Operating Temperature 15-35° C (59-95° F) Operating Humidity 15% - 80% RH	Operating Temperature 15-35° C (59-95° F) Operating Humidity 15% - 80% RH
Power Consumption	Running: less than 240 watts Sleep Mode: less than 23 watts Standby/Off: less than 0.3 watts	Running: less than 240 watts Sleep Mode: less than 23 watts Standby/Off: less than 0.3 watts	Running: less than 240 watts Sleep Mode: less than 23 watts Standby/Off: less than 0.3 watts
Recommended Daily Volume	Unlimited	Unlimited	Unlimited
Recommended PC Configuration	7, 8GB RAM, 512 GB SSD	7, 8GB RAM, 512 GB SSD	7, 8GB RAM, 512 GB SSD
Scanning Technology	Dual White LED Illumination CCD (CMOS); Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3); color capture bit depth is 48 bits (16 x 3)	Dual White LED Illumination CCD (CMOS); Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3); color capture bit depth is 48 bits (16 x 3)	Dual White LED Illumination CCD (CMOS); Grayscale output bit depth is 256 levels (8-bit); color output bit depth is 24 bits (8 x 3); color capture bit depth is 48 bits (16 x 3)
Standard Software And Drivers	ISIS Drivers LINUX (TWAIN and SANE) Drivers TWAIN Drivers WIA Drivers KOFAX certified	ISIS Drivers LINUX (TWAIN and SANE) Drivers TWAIN Drivers WIA Drivers KOFAX certified	ISIS Drivers LINUX (TWAIN and SANE) Drivers TWAIN Drivers WIA Drivers KOFAX certified
Altitude	<2000M or 6562 feet	<2000M or 6562 feet	<2000M or 6562 feet

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 Alaris or through Kodak Alaris' authorized distribution channels:

Kodak Alaris Inc. 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 Alaris' option.

Purchasers may determine the applicable Limited Warranty period for the KODAK Scanners purchased by visiting

KodakAlaris.com/go/IMsupport.

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

Warranty exclusions

Kodak Alaris' 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 Alaris for warranty service in accordance with Kodak Alaris' 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, trays or seal); (c) from service, modification or repair not performed by Kodak Alaris or a service provider authorized by Kodak Alaris or by tampering, use of counterfeit or other non-Kodak Alaris 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 Alaris 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 KodakAlaris.com/go/IMsupport.

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

Kodak Alaris 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 ALARIS 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 ALARIS 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:

KodakAlaris.com/go/IMsupport or contact: Kodak Alaris' Response Center: **(800) 822-1414**

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

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 Alaris advises the purchaser to keep the original box and packing materials for storing or shipping. Kodak Alaris 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 Alaris 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 Alaris 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 Alaris’ 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 Alaris’ current Packaging and Shipping Guidelines.

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

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 ALARIS IS, WITHOUT LIMITATION, NOT RESPONSIBLE FOR LOST OR DAMAGED DATA OR FILES.

Warranty Service descriptions

Kodak Alaris 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 Alaris may use one of the service methods listed below, depending upon product type, in providing service under its Limited Warranty.

Information about the product, including warranty, service program information, and restrictions, can be obtained online at KodakAlaris.com/go/IMsupport.

To avoid service delays, Kodak Alaris urges end users to complete the Limited Warranty Registration process online at KodakAlaris.com/go/IMsupport.

Product model and product serial number are required to complete the registration process.

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

Kodak Alaris 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.

Advanced Unit Replacement (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 purchases of certain *KODAK* scanners, Kodak Alaris will replace that product within two business days.

The AUR provides advance replacement on specific failed or broken *KODAK* scanners. If Kodak Alaris determines a product is not operating consistently within manufacturer's specifications, Kodak Alaris will provide next day AUR subject to availability of courier service. The replacement product will perform at the minimum specifications of the current product but may not be the exact make and model. The replacement product may be a refurbished unit. When AUR support is necessary, Kodak Alaris will ship the replacement unit to Customer's location, transportation prepaid. Upon delivery of a replacement unit, Customer must remove all options and accessories (which include power cord, documentation, etc.) that are not covered by the Limited Warranty, then place the entire malfunctioning unit in the shipping case, apply the enclosed labels and call the carrier for pickup within 5 business days after receiving the AUR. Kodak Alaris will pay the return transportation charges. If parts are missing from the returned unit, Customer may be charged for the parts at prevailing per call rates. If the Customer has not returned the malfunctioning unit within 10 business days, Customer will be invoiced the list price of the unit and becomes responsible for such charge.

Depot service

If the *KODAK* Scanner is not eligible for AUR 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 options and accessories (which include power cord, documentation, etc.) not covered by the Limited Warranty. All products should be returned to Kodak Alaris 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 Alaris' 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 Repair Service are available to eligible purchasers in the fifty (50) United States for products purchased from authorized distributors of Kodak Alaris. The *KODAK* Scanner will be ineligible for any service under warranty if the product falls under any of Kodak Alaris' then-current Warranty Exclusions, including a purchaser's failure to return defective products to Kodak Alaris in compliance with Kodak Alaris' 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.

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

Contacting Kodak Alaris

For Information on *KODAK* Scanners:

Website: <https://www.kodakalaris.com/scanners>

For U.S. contact Technical Support by telephone:

Telephone technical support is available Monday-Friday between the hours of 5 a.m. to 5 p.m. excluding Kodak Alaris holidays.

Phone: (800) 822-1414

For technical documentation and FAQs available 24 hours a day:

Website: <https://www.kodakalaris.com/support>

For Service Program information

Website: [KodakAlaris.com](https://www.kodakalaris.com)

Phone: (800) 822-1414

