

customized (See ""Customizing Scan to USB" on page 101).

Your machine begins scanning the original, and then asks if you want to scan another page.

5. Press **OK** when **Yes** appears to scan more pages. Load another original to be scanned and press **Color Start** or **Black Start**.

Regardless of the button you press, the color mode is decided as customized (See ""Customizing Scan to USB" on page 101).

Otherwise, press the left/right arrow to select **No** and press **OK**.

After scanning is complete, you can remove the USB memory device from the machine.

Customizing Scan to USB

You can specify image size, file format, or color mode for each scanning to USB job.

1. Press  (Scan) on the control panel.
2. Press **Menu** on the control panel.
3. Press the left/right arrow until **Scan Feature** appears and press **OK**.
4. Press **OK** when **USB Feature** appears.
5. Press the left/right arrow until the setting option you want appears and press **OK**.
You can set the following options.
 - **Scan Size:** Sets the image size.
 - **Original Type:** Sets the original document's type.
 - **Resolution:** Sets the image resolution.
 - **Scan Color:** Sets the color mode. If you select Mono in this option, you cannot select JPEG in **Scan Format**.
 - **Scan Format:** Sets the file format in which the image is to be saved. When you select TIFF or PDF, you can select to scan multiple pages. If you select JPEG in this option, you cannot select Mono in **Scan Color**.
6. Press the left/right arrow until the desired status appears and press **OK**.
7. Repeat steps 4 and 5 to set other setting options.
8. When you have finished, press **Stop/Clear** to return to ready mode.
You can change the default scan settings. For details, see "Changing the default scan settings" on page 85.

PRINTING FROM A USB MEMORY DEVICE

You can directly print files stored on a USB memory device. You can print TIFF, BMP, JPEG and PRN files.

Files types supported by Direct Print option

- PRN: Only files created by provided driver with your machine are compatible.
- PRN files can be created by selecting the Print to file check box when you print a document. The document will be saved as a PRN file, rather than printed on paper. Only PRN files created in this fashion can be printed directly from USB memory. See "Printing to a file (PRN)" on page 76 to learn how to create a PRN file.
- BMP: BMP Uncompressed
- TIFF: TIFF 6.0 Baseline
- JPEG: JPEG Baseline

To print a document from a USB memory device

1. Insert a USB memory device into the USB memory port on your machine, and then press **Direct USB**. If one has already been inserted, press **Direct USB**.
2. Press **OK** when **USB print** appears.
Your machine automatically detects the device and reads data stored on it.
3. Press the left/right arrow until the folder or file you want appears and press **OK**.
If you see [D] in the front of a folder name, there are one or more files or folders in the selected folder.
4. If you selected a file, skip to the next step.
If you selected a folder, press the left/right arrow until the file you want appears.
5. Press the left/right arrow to select the number of copies to be printed or enter the number.
6. Press **OK**, **Color Start** or **Black Start** to start printing the selected file.
There are two types of mode as following.
 - **OK** or **Color Start**: Color print
 - **Black Start**: Black and White printAfter printing the file, the display asks if you want to print another job.
7. Press **OK** when **Yes** appears to print another job, and repeat from step 2.
Otherwise, press the left/right arrow to select **No** and press **OK**.
8. Press **Stop/Clear** to return to ready mode.

BACKING UP DATA

Data in the machine's memory can be accidentally erased due to power failure or storage failure. Backup helps you protect the system settings by storing them as backup files on a USB memory device.

Backing up data

1. Insert the USB memory device into the USB memory port on your machine.
2. Press **Menu** on the control panel.
3. Press the left/right arrow until **System Setup** appears and press **OK**.
4. Press **OK** when **Machine Setup** appears.
5. Press the left/right arrow until **Export Setting** appears and press **OK**.
6. Press the left/right arrow until the option you want appears.
For CLX-3185N, **Setup Data** option is only available.
For CLX-3185FN/3185FW, **Setup Data** and **Address Book** options are available.
7. Press **OK** to begin backing up the data.
The data is backed up to the USB memory.
Press **Stop/Clear** to return to ready mode.

Restoring data

1. Insert the USB memory device on which the backup data is stored in to the USB memory port.
2. Press **Menu** on the control panel.
3. Press the left/right arrow until **System Setup** appears and press **OK**.
4. Press **OK** when **Machine Setup** appears.
5. Press the left/right arrow until **Import Setting** appears and press **OK**.
6. Press the left/right arrow until the data type you want appears and press **OK**.

For CLX-3185N, **Setup Data** option is only available.

For CLX-3185FN/3185FW, **Setup Data** and **Address Book** options are available.

7. Press the left/right arrow until the file containing the data you want to restore appears and press **OK**.
8. Press **OK** when **Yes** appears to restore the backup file to the machine.
9. Press **Stop/Clear** to return to ready mode.

MANAGING USB MEMORY

You can delete image files stored on a USB memory device one by one or all at once by reformatting the device.



After deleting files or reformatting a USB memory device, files cannot be restored. Therefore, confirm that you no longer need the data before deleting it.

Deleting an image file

1. Insert the USB memory device into the USB memory port on your machine.
2. Press **Direct USB**.
3. Press the left/right arrow until **File Manage** appears and press **OK**.
4. Press **OK** when **Delete** appears.
5. Press the left/right arrow until the folder or file you want to delete appears and press **OK**.



If you see [D] in the front of a folder name, there are one or more files or folders in the selected folder.

If you selected a file, the display shows the size of the file for about 2 seconds. Go to the next step.

If you selected a folder, press the left/right arrow until the file you want to delete appears and press **OK**.

6. Press **OK** when **Yes** appears to confirm your selection.
7. Press **Stop/Clear** to return to ready mode.

Formatting a USB memory device

1. Insert the USB memory device into the USB memory port on your machine.
2. Press **Direct USB**.
3. Press the left/right arrow until **File Manage** appears and press **OK**.
4. Press the left/right arrow until **Format** appears and press **OK**.
5. Press **OK** when **Yes** appears to confirm your selection.
6. Press **Stop/Clear** to return to ready mode.

Viewing the USB memory status

You can check the amount of memory space available for scanning and saving documents.

1. Insert the USB memory device into the USB memory port on your machine.
2. Press **Direct USB**.
3. Press the left/right arrow until **Check Space** appears and press **OK**.
4. The available memory space appears on the display.
Press **Stop/Clear** to return to ready mode.

PRINTING DIRECTLY FROM A DIGITAL CAMERA

This machine supports the PictBridge feature. You can print images directly from any PictBridge-compatible device such as a digital camera, camera phone and camcorder. You do not need to connect it to a computer.

1. Turn on the machine.
2. Connect your PictBridge-compatible device to the memory port on the front of the machine using the USB cable supplied with the device.
3. Send an order to print images from the PictBridge-compatible device.



- Detailed information on how to print an image from a camera with PictBridge feature, refer to the manual provided with your camera.
- Index printing is not support.
- Date or file name printing is not supported.

machine status and advanced feature

This chapter explains how to browse the current status of your machine, and the method of setting for the advanced machine setup. Read this chapter carefully in order to use your machine's diverse features.

This chapter includes:

- Fax setup (CLX-3185FN/CLX-3185FW only)
- Copy setup
- Printing a report

 Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.

FAX SETUP (CLX-3185FN/CLX-3185FW ONLY)

Changing the fax setup options

Your machine provides you with various user-selectable options for setting up the fax system. You can change the default settings for your preferences and needs.

To change the fax setup options:

1. Press  (Fax) on the control panel.
2. Press **Menu** on the control panel.
3. Press the left/right arrow until **Fax Setup** appears and press **OK**.
4. Press the left/right arrow until the fax setup item you want appears and press **OK**.
5. Press the left/right arrow until the option you want appears and press **OK**.
6. Press the left/right arrow until the desired status appears or enter the value for the option you have selected, and press **OK**.
7. Repeat steps 4 through 6 if necessary.
8. Press **Stop/Clear** to return to ready mode.

Sending

OPTION	DESCRIPTION
Redial Times	You can specify the number of redial attempts. If you enter 0, the machine will not redial.
Redial Term	Your machine can automatically redial a remote fax machine if it was busy. You can set an interval between attempts.
Prefix Dial	You can set a prefix of up to five digits. This number dials before any automatic dial number is started. It is useful for accessing a PABX exchange.

- Clearing memory
- Network (CLX-3185N/CLX-3185FN/CLX-3185FW only)
- Menu overview

OPTION	DESCRIPTION
ECM Mode	This mode helps with poor line quality and makes sure any faxes you send are sent smoothly to any other ECM-equipped fax machine. Sending a fax using ECM may take more time.
Send Report	You can set your machine to print a confirmation report showing whether a transmission was successful, how many pages were sent, and more. The available options are On , Off , and On-Error , which prints only when a transmission is not successful.
Image TCR	This function allows users to know what fax messages have been sent by showing sent messages in the transmission report. The first page of the message is turned into an image file that is printed on the transmission report so the users can see what messages have been sent. However, you can not use this function when sending fax without saving the data in the memory.

Receiving

OPTION	DESCRIPTION
Receive Mode	You can select the default fax receiving mode. For details on receiving faxes in each mode, see "Changing the receive modes" on page 95.
Ring To Answer	You can specify the number of times the machine rings before answering an incoming call.
Stamp RCV Name	This option allows the machine to automatically print the page number, and the date and time of reception at the bottom of each page of a received fax.
RCV Start Code	This code allows you to initiate fax reception from an extension phone plugged into the EXT socket on the back of the machine. If you pick up the extension phone and hear fax tones, enter the code. It is preset to *9* at the factory.

OPTION	DESCRIPTION
Auto Reduction	When receiving a fax containing pages as long as or longer than the paper loaded in the paper tray, the machine can reduce the size of the original to fit the size of the paper loaded in the machine. Turn on this feature if you want to automatically reduce an incoming page. With this feature set to Off, the machine cannot reduce the original to fit onto one page. The original will be divided and printed in actual size on two or more pages.
Discard Size	When receiving a fax containing pages as long as or longer than the paper in your machine, you can set the machine to discard a specific length from the end of the received fax. The machine will print the received fax on one or more sheets of paper, minus the data that would have been on the specified discard segment. When the received fax contains pages larger than the paper in your machine, and Auto Reduction has been turned on, the machine will reduce the fax to fit on the existing paper, and nothing will be discarded.
Junk Fax Setup	This setting may not be available depending on your country. Using this feature, the system will not accept faxes sent from remote stations whose numbers are stored in the memory as junk fax numbers. This feature is useful for blocking any unwanted faxes. When you turn on this feature, you can access the following options to set junk fax numbers. • Add: Allows you to set up to 10 fax numbers. • Delete: Allows you to delete the desired junk fax number. If you select Delete All, Allows you to delete all junk fax numbers.
DRPD Mode	This mode enables a user to use a single telephone line to answer several different telephone numbers. In this menu, you can set the machine to recognize which ring patterns to answer. For details about this feature, see "Receiving faxes using DRPD mode" on page 95.

Change Default

OPTION	DESCRIPTION
Resolution	Changing the resolution setting affects the appearance of the received document. • Standard: Originals with normal sized characters. • Fine: Originals containing small characters or thin lines or originals printed using a dot-matrix printer. • Super Fine: Originals containing extremely fine detail. Super Fine mode is enabled only if the machine with which you are communicating also supports the Super Fine resolution.  • For memory transmission, Super Fine mode is not available. The resolution setting is automatically changed to Fine. • When your machine is set to Super Fine resolution and the fax machine with which you are communicating does not support Super Fine resolution, the machine transmits using the highest resolution mode supported by the other fax machine. • Photo Fax: Originals containing shades of gray or photographs. • Color Fax: Originals with colors. Sending a color fax is enabled only if the machine with which you are communicating supports color fax reception and you send the fax manually. In this mode, memory transmission is not available.
Darkness	You can select the default contrast mode to fax your originals lighter or darker.

Auto Report

You can set the machine to print a report with detailed information about the previous 50 communication operations including time and dates.

For further details, see "Printing sent fax report automatically" on page 99.

COPY SETUP

Changing the copy setup options

For copy output, you can set up several options in advance.

1. Depending on the model, the operating procedure may differ.
 - For CLX-3185 and CLX-3185N, press **Menu** on the control panel.
 - For CLX-3185FN and CLX-3185FW, press  (Copy) and **Menu** in order on the control panel.
2. Press the left/right arrow until **Copy Setup** appears and press **OK**.
3. Press the left/right arrow until **Change Default** appears and press **OK**.
4. Press the left/right arrow until the copy setup item you want appears and press **OK**.

5. Press the left/right arrow until the setup option you want appears and press **OK**.
6. Press the left/right arrow until the setting you want appears and press **OK**.
7. Repeat steps 4 through 6, as needed.
8. Press **Stop/Clear** to return to ready mode.

Change Default

OPTION	DESCRIPTION
Copies	You can enter the number of copies using the number keypad.
Copy Collation	You can set the machine to sort the copy job. For further details, see "Deciding the form of copy output" on page 81.
Reduce/Enlarge	You can reduce or enlarge the size of a copied image.
Darkness	You can adjust the brightness level to make a copy that is easier to read, when the original contains faint markings and dark images.
Original Type	You can improve the copy quality by selecting the document type for the current copy job.
Eco Copy	You can cut toner consumption and paper usage by using this option.

PRINTING A REPORT

You can print a report on the machine's configuration or font list, etc.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Report** appears and press **OK**.
4. Press the left/right arrow until the report or list you want to print appears and press **OK**.
To print all reports and lists, select **All Report**.
5. Press **OK** when **Yes** appears to confirm printing.
The selected information prints out.

OPTION	DESCRIPTION
All Report	You can print reports and lists about all options.
Configuration	This list shows the status of the user-selectable options. You may print this list to confirm your changes after changing settings.
Supplies Info	This list shows the current status of consumables in your machine.
Address Book	This list shows all of the fax numbers currently stored in the machine's memory.
Send Report	This report shows the fax number, the number of pages, the elapsed time of the job, the communication mode, and the communication results for a particular fax job. You can set up your machine to automatically print a transmission confirmation report after each fax job (See "Sending" on page 103).

OPTION	DESCRIPTION
Sent Report	This report shows information on the faxes you have recently sent. You can set the machine to automatically print this report every 50 communications (See "Sending" on page 103).
Fax RCV Report	This report shows information on the faxes you have recently received.
Schedule Jobs	This list shows the documents currently stored for delayed faxes along with the starting time and type of each operation.
Junk Fax Report	This list shows the fax numbers specified as junk fax numbers. To add or delete numbers to or from this list, access the Junk Fax Setup menu (See "Receiving" on page 103).
Network Info.	This list shows information on your machine's network connection and configuration.
User Auth List	This list shows authorized users, who are allowed to use the email function.
PCL Font List	This list shows all the PCL fonts currently available to your machine.
Fax Option	This list shows the status of the user-selectable options for fax. You may print this list to confirm your changes after changing fax settings.



You can also print the machine's status information and browse status with SyncThru™ Web Service. Open the Web browser on your network-connected computer and type the IP address of your machine. When SyncThru™ Web Service opens, click **Information > Print information**.

CLEARING MEMORY

You can selectively clear information stored in your machine's memory.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Clear Setting** appears and press **OK**.
4. Press the left/right arrow until the item you want to clear appears and press **OK**.
5. Press **OK** when **Yes** appears to confirm clearing.
6. Repeat steps 4 through 5 to clear another item.
7. Press **Stop/Clear** to return to ready mode.



Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.

OPTION	DESCRIPTION
All settings	Clears all of the data stored in memory and resets all of your settings to the factory default.
Fax Setup	Restores all of the fax options to the factory default.
Copy Setup	Restores all of the copy options to the factory default.

OPTION	DESCRIPTION
Scan Setup	Restores all of the scan options to the factory default.
System Setup	Restores all of the system options to the factory default.
Network Setup	Restores all of the network options to the factory default.
Address Book	Clears all of the fax numbers entries stored in memory.
Sent Report	Clears all records of sent faxes.
Fax RCV Report	Clears all records of received faxes.

NETWORK (CLX-3185N/CLX-3185FN/CLX-3185FW ONLY)

You may set up the network with the machine's display screen. Before doing that, you must have the relevant information concerning the type of network protocols and computer system you use. If you are not sure which setting to use, contact your network administrator to configure this machine to the network.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **Network** appears and press **OK**.
3. Press the left/right arrow until the setup option you want appears and press **OK**.
4. Press the left/right arrow until the setting you want appears and press **OK**.
5. Repeat steps 3 through 4, as needed.
6. Press **Stop/Clear** to return to ready mode.

OPTION	DESCRIPTION
TCP/IP	Select appropriate protocol and configure parameters to use the network environment.  There are lots of parameters to be set. If you are not sure, leave as is, or consult the network administrator.
TCP/IP (IPv6)	Selects this option to use the network environment through IPv6 (See "IPv6 Configuration" on page 49).
Ethernet Speed	Configure the network transmission speed.
Wireless	Selects this option to use the wireless network (See "Wireless network setup (CLX-3185FW/CLX-3185WK only)" on page 50).
Clear Setting	Reverts the network settings to the default values.
Network Info.	This list shows information on your machine's network connection and configuration.

MENU OVERVIEW

The control panel provides access to various menus to set up the machine or use the machine's functions. These menus can be accessed by pressing **Menu**.



Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.

ITEMS	OPTION
Fax Feature^b	Darkness Resolution Multi Send Delay Send Priority Send Forward Secure Receive Add Page Cancel Job
Fax Setup^b	Sending Redial Times Redial Term Prefix Dial ECM Mode Send Report Image TCR Receiving Receive Mode Ring To Answer Stamp RCV Name RCV Start Code Auto Reduction Discard Size Junk Fax Setup DRPD Mode Change Default Resolution Darkness Auto Report
Copy Feature	Reduce/Enlarge Darkness Original Type Layout Adjust Bkgd. Gray Enhance Eco Copy
Copy Setup	Change Default Copies Copy Collation Reduce/Enlarge Darkness Original Type Eco Copy^a

ITEMS	OPTION
System Setup	Machine Setup
	Machine ID
	Machine Fax No ^b
	Date & Time ^b
	Clock Mode ^b
	Language
	Default Mode
	Power Save
	Timeout
	Altitude Adj.
	Auto Continue
	Import Setting
	Export Setting
	Paper Setup
	Paper Size
	Paper Type
	Sound/Volume
	Key Sound
	Alarm Sound
	Speaker ^b
	Ringer ^b
	Report
	All Report
	Configuration
	Supplies Info
	Address Book ^b
	Send Report ^b
	Sent Report ^b
	Fax RCV Report ^b
	Schedule Jobs ^b
	Junk Fax Report ^b
	Network Info. ^c
	User Auth List ^c
	PCL Font List
	Fax Option ^b
	Maintenance
	Supplies Life
	Color
	Serial Number
	Clear Setting
	All Settings
	Fax Setup ^b
	Copy Setup
	Scan Setup
	System Setup
	Network Setup ^c
	Address Book ^b
	Sent Report ^b
	Fax RCV Report ^b

ITEMS	OPTION
Network ^c	TCP/IP
	DHCP
	BOOTP
	Static
	TCP/IP (IPv6)
	IPv6 Activate
	DHCPv6 Config
	Ethernet Speed
	Auto
	10M Half
	10M Full
	100M Half
	100M Full
	Wireless ^d
	WLAN Setting
	WLAN Default
	WLAN Signal
	Clear Setting
	Network Info.

a. CLX-3185/CLX-3185N/CLX-3185FN only

b. CLX-3185FN/CLX-3185FW only

c. CLX-3185N/CLX-3185FN/CLX-3185FW only

d. CLX-3185WK/CLX-3185FW only

management tools

This chapter introduces management tools provided to help you make full use of your machine.

This chapter includes:

- Introducing useful management tools
- Using SyncThru™ Web Service (CLX-3185N/CLX-3185FN/CLX-3185FW only)

 Supported optional devices and features may differ according to your model. Check your model name.
(See "Features by Models" on page 28).

INTRODUCING USEFUL MANAGEMENT TOOLS

The programs below help you to use your machine conveniently.

- "Using SyncThru™ Web Service (CLX-3185N/CLX-3185FN/CLX-3185FW only)" on page 108.
- "Using the Smart Panel program" on page 109.
- "SmarThru" on page 110.
- "Using the Linux Unified Driver Configurator" on page 111.

USING SYNCTHRU™ WEB SERVICE (CLX-3185N/CLX-3185FN/CLX-3185FW ONLY)

 Internet Explorer 6.0 or higher is the minimum requirement for SyncThru™ Web Service.

If you have connected your machine to a network and set up TCP/IP network parameters correctly, you can manage the machine via SyncThru™ Web Service, an embedded web server. Use SyncThru™ Web Service to:

- View the machine's device information and check its current status.
- Change TCP/IP parameters and set up other network parameters.
- Change printer preference.
- Set the email notifications advising of the machine's status.
- Get support for using the machine.

To access SyncThru™ Web Service

1. Access a web browser, such as Internet Explorer, from Windows. Enter the machine IP address (http://xxx.xxx.xxx.xxx) in the address field and press the Enter key or click **Go**.
2. Your machine's embedded website opens.

Logging into SyncThru™ Web Service

Before configuring options in SyncThru™ Web Service, you need to log-in as an administrator. You can still use SyncThru™ Web Service without logging in but you won't have access to **Settings** tab and **Security** tab.

1. Click **Login** on the upper right of the SyncThru™ Web Service website.
A log-in page appears.
2. Type in the **ID** and **Password** then click **Login**.
If it's your first time logging into SyncThru™ Web Service, type in the below default ID and password.

- Using the Smart Panel program
- SmarThru
- Using the Linux Unified Driver Configurator

- **ID:** admin
- **Password:** sec00000

SyncThru™ Web Service overview



 Some tabs may not appear depending on your model.

Information tab

This tab gives you general information about your machine. You can check things, such as remaining amount of toner. You can also print reports such as an error report and so on.

- **Active Alerts:** This item allows you to check the alerts occurred in the machine and their severity.
- **Supplies:** This item allows you to check how many pages are printed and amount of toner left in the cartridge.
- **Usage Counters:** This item allows you to check the usage count by print types: simplex, duplex.
- **Current Settings:** This item allows you to check the machine and network information.
- **Print information:** This item allows you to print reports such as system related reports, e-mail address and font reports.

Settings tab

This tab allows you to set configurations provided by your machine and network. You need to log-in as an administrator to view this tab.

- **Machine Settings tab:** This tab allows you to set options provided by your machine.
 - **System:** You can set settings related to your machine.
 - **Printer:** You can set settings related to printing jobs.
 - **E-mail Notification:** You can set e-mail notification feature and e-mail address of recipients who will receive the notification.
- **Network Settings tab:** This tab allows you to view and change the network environment. You can set things, such as TCP/IP, network protocols and so on.
 - **SNMP:** You can exchange of management information between network devices using SNMP.
 - **Outgoing Mail Server(SMTP):** You can set the outgoing e-mail server.
 - **Restore Default:** You can restore default network settings.

Security tab

This tab allows you to set system and network security information. You need to log-in as an administrator to view this tab.

- **System Security:** You can set the system administrator's information and also enable or disable machine features.

- **Network Security:** You can set settings for HTTPs, IPSec, IPv4/IPv6 filtering, 802.1x, Authentication servers.

Maintenance tab

This tab allows you to maintain your machine by upgrading firmware and setting contact information for sending emails. You can also connect to Samsung website or download drivers by selecting the **Link** menu.

- **Firmware Upgrade:** You can upgrade your machine's firmware.
- **Contact Information:** You can view the contact information.
- **Link:** You can view the links to useful sites where you can download or check information.

E-mail notification setup

You can receive emails about your machine's status by setting this option. By setting information such as IP address, host name, e-mail address and SMTP server information, the machine status (toner cartridge shortage or machine error) will be sent to a certain person's e-mail automatically. This option may be used more frequently by a machine administrator.

1. Start a web browser, such as Internet Explorer, from Windows.
Enter the machine IP address (<http://xxx.xxx.xxx.xxx>) in the address field and press the Enter key or click **Go**.
2. Your machine's embedded website opens.
3. From the **Settings** tab, select **Machine Settings > E-mail Notification**.

 If you haven't configured outgoing server environment, go to **Settings > Network Settings > Outgoing Mail Server(SMTP)** to configure network environment before setting e-mail notification.

4. Select **Enable** check box to use the **E-mail Notification**.
5. Click **Add** button to add e-mail notification user.
Set the recipient name and e-mail address(es) with notification items you want to receive an alert for.
6. Click **Apply**.

 If the firewall is activated, the e-mail may not be sent successfully. In that case, contact the a network administrator.

Setting the system administrator information

Set the system administrator information. This setting is necessary for using the e-mail notification option.

1. Start a web browser, such as Internet Explorer, from Windows.
Enter the machine IP address (<http://xxx.xxx.xxx.xxx>) in the address field and press the Enter key or click **Go**.
2. Your machine's embedded website opens.
3. From the **Security** tab, select **System Security > System Administrator**.
4. Enter the name of the administrator, phone number, location and E-mail address.
5. Click **Apply**.

USING THE SMART PANEL PROGRAM

The Smart Panel is a program that monitors and informs you of the machine status, and allows you to customize the machine's settings. For Windows and Macintosh, Smart Panel is installed automatically when you install the machine software. For Linux, you can download Smart Panel from the Samsung website and install (See "Installing the SmartPanel" on page 42).

-  To use this program, your computer has to meet the following system requirements:
- Windows. Check that your computer's CPU, RAM and HDD meet

or exceed specification (See "System requirements" on page 39).

- Mac OS X 10.3 or higher. Check that your computer's CPU, RAM and HDD meet or exceed specification (See "System requirements" on page 39).
- Linux. Check that your computer's CPU, RAM and HDD meet or exceed specification (See "System requirements" on page 39).
- Internet Explorer version 5.0 or higher for flash animation in HTML Help.

If you need to know the exact model name of your machine, you can check the supplied software CD.

Understanding Smart Panel

If an error occurs while operating, you can check the error from the Smart Panel.

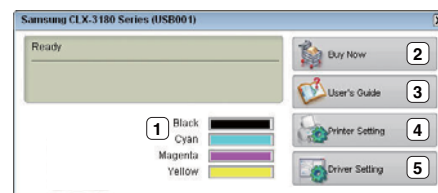
You can also launch Smart Panel manually. Double-click the Smart Panel icon on the Windows task bar (in Windows), or Notification Area (in Linux). You can also click it on the status bar (in Mac OS X).

Windows		Double-click this icon in Windows.
Macintosh		Click this icon in Mac OS X.
Linux		Click this icon in Linux.

Or, if you are a Windows user, you can launch it from the **Start** menu, select **Programs** or **All Programs > Samsung Printers > your printer driver name > Smart Panel**.

-  If you have already installed more than one Samsung machine, first select the correct machine model you want in order to access the corresponding Smart Panel.
- Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select your machine.
- The Smart Panel window and its contents shown in this user's guide may differ depending on the machine or operating system in use.

The Smart Panel program displays the current status of the machine, the estimated level of toner remaining in each toner cartridge, and various other types of information. You can also change settings.



1	Toner Level	You can view the level of toner remaining in each toner cartridge. The machine and the number of toner cartridge(s) shown in the above window may differ depending on the machine in use. Some machines do not have this feature.
2	Buy Now	You can order replacement toner cartridge(s) from online.

3	User's Guide	You can view the online User's Guide.  This button changes to Troubleshooting Guide when error occurs. You can directly open the troubleshooting section in the user's guide.
4	Printer Setting	You can configure various machine settings in the Printer Settings Utility window. Some machines do not have this feature.  If you connect your machine to a network, the SyncThru™ Web Service window appears instead of the Printer Settings Utility window.
5	Driver Setting	You can set all of the machine options you need in the Printing Preferences window. This feature is available only for Windows (See "Opening printing preferences" on page 72).

Changing the Smart Panel Program Settings

Right-click (in Windows or Linux) or click (in Mac OS X) the Smart Panel icon and select **Options**. Select the settings you want from the **Options** window.

SMARTHRU

The supplied software CD provides you with SmarThru. SmarThru offers you convenient features to use with your machine.

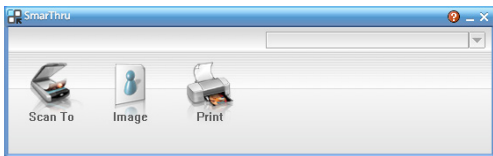
Starting SmarThru

Follow the steps below to start SmarThru.

1. Make sure that your machine and computer are turned on and properly connected to each other.
2. Once you have installed SmarThru, you will see the SmarThru icon on your desktop.
3. Double-click the SmarThru icon.



4. The SmarThru appears.



- **Scan to:** Allows you to scan an image and save it to an application or folder, email it, or publish it on a website.
- **Image:** Allows you to edit an image you have saved as a graphic file and send it to a selected application or folder, email it, or publish it on a website.
- **Print:** Allows you to print images you have saved. You can print images in black and white or color mode if your machine supports it.

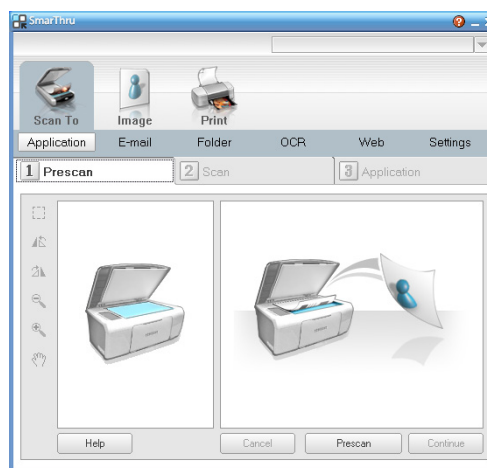
For more information about SmarThru, click  at the top right corner of the window. The SmarThru help window appears; you can view on screen help supplied on the SmarThru program.

-  Follow the steps below to uninstall SmarThru. Before you begin the uninstall, ensure that all applications are closed on your computer.
- a) From the **Start** menu, select **Programs** or **All Programs**.
 - b) Select **Samsung Printers > SmarThru 4 > Uninstall SmarThru 4**.
 - c) When your computer asks you to confirm your selection, read the statement and click **OK**.
 - d) Click **Finish**.

Using SmarThru

Scanning

1. Click **Scan To**.



- **Application:** Scanning an image and placing it in an image editor application such as Paint or Adobe Photoshop.
 - **E-mail:** Scanning an image and emailing it. Allows you to scan an image, preview it, and email it.
 To send an image by e-mail, you must have a mail client program, like Outlook Express, which has been set up with your e-mail account.
 - **Folder:** Scanning an image and saving it to a folder. Allows you to scan an image, preview it, and save it to the folder of your choice.
 - **OCR:** Scanning an image and performing text recognition. Allows you to scan an image, preview it, and send it to the OCR program for text recognition.
 - Recommended scan option for OCR.
 - Resolution: 200 or 300 dpi.
 - Image type: grayscale or black & white.
 - **Web:** Scanning an image, previewing it, and publishing it on a website, using the specified file format for the image you want to publish.
 - **Settings:** Customizing settings of **Scan To** basic functions. Allows you to customize settings for **Application**, **E-mail**, **OCR**, and **Web** functions.
2. Set scan settings and click **Scan**.

Printing

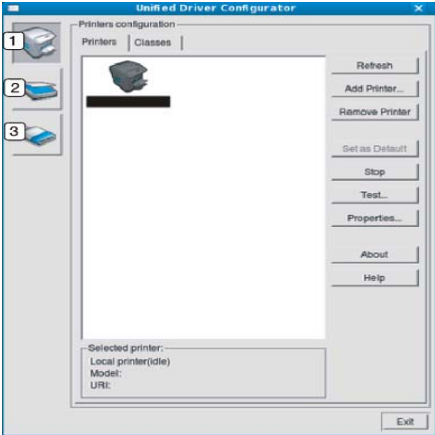
- 1. Click **Print**.
- 2. Select the file you want to print.
- 3. Select the machine you want to use for printing.
- 4. Click **Print** to start the job.

USING THE LINUX UNIFIED DRIVER CONFIGURATOR

The Unified Driver Configurator is a tool primarily intended for configuring machine devices. You need to install Unified Linux Driver to use Unified Driver Configurator (See "Installing the Unified Linux Driver" on page 42). After the driver is installed on your Linux system, the Unified Driver Configurator icon will automatically be created on your desktop.

Opening the Unified Driver Configurator

- 1. Double-click the **Unified Driver Configurator** on the desktop.
You can also click the **Startup** Menu icon and select **Samsung Unified Driver > Unified Driver Configurator**.
- 2. Click each button on the left to switch to the corresponding configuration window.



To use the on screen help, click **Help**.

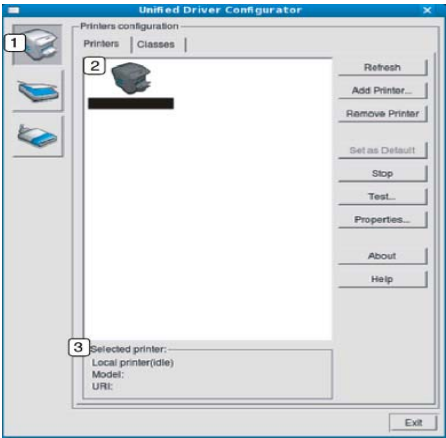
- 3. After changing the configurations, click **Exit** to close the Unified Driver Configurator.

Printers configuration window

Printers configuration has the two tabs: **Printers** and **Classes**.

Printers tab

View the current system's printer configuration by clicking on the machine icon button on the left side of the Unified Driver Configurator window.



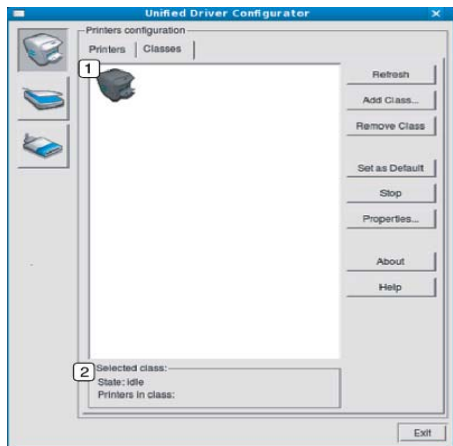
1	Switches to Printers configuration .
2	Shows all of the installed machine.
3	Shows the status, model name and URL of your machine.

The printer control buttons are as follows:

- **Refresh**: Renews the available machines list.
- **Add Printer**: Allows you to add a new machines.
- **Remove Printer**: Removes the selected machine.
- **Set as Default**: Sets the current selected machine as a default machine.
- **Stop/Start**: Stops/starts the machine.
- **Test**: Allows you to print a test page to ensure the machine is working properly.
- **Properties**: Allows you to view and change the printer properties.

Classes tab

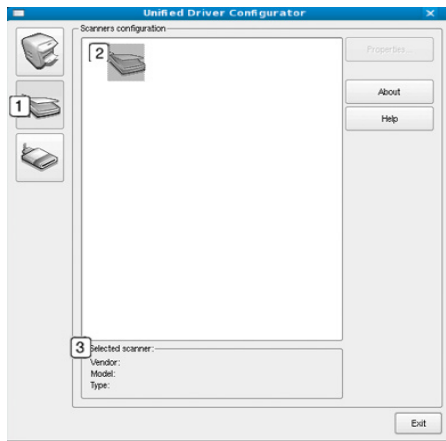
The Classes tab shows a list of available machine classes.



- | | |
|--|--|
| 1 | Shows all of the machine classes. |
| 2 | Shows the status of the class and the number of machines in the class. |
| <ul style="list-style-type: none">• Refresh: Renews the classes list.• Add Class: Allows you to add a new machine class.• Remove Class: Removes the selected machine class. | |

Scanners configuration

In this window, you can monitor the activity of scanner devices, view a list of installed Samsung machine devices, change device properties, and scan images.

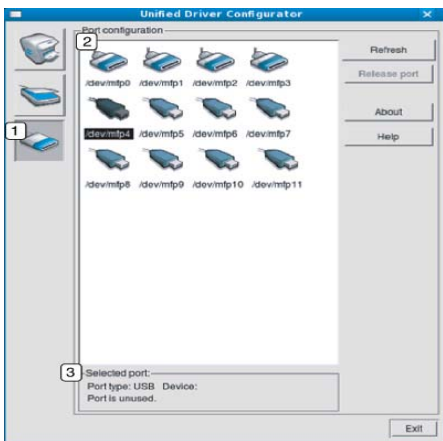


- | | |
|---|--|
| 1 | Switches to Scanners configuration . |
| 2 | Shows all of the installed scanners. |
| 3 | Shows the vendor, model name and type of your scanner. |

- **Properties:** Allows you to change the scan properties and scan a document.

Ports configuration

In this window, you can view the list of available ports, check the status of each port, and release a port that is stalled in a busy state when its owner has terminated the job for any reason.



- | | |
|---|--|
| 1 | Switches to Ports configuration . |
| 2 | Shows all of the available ports. |
| 3 | Shows the port type, device connected to the port, and status. |
- **Refresh:** Renews the available ports list.
 - **Release port:** Releases the selected port.

Sharing Ports Between Printers and Scanners

Your machine may be connected to a host computer via a parallel port or USB port. Since the machine device contains more than one device (printer and scanner), it is necessary to organize proper access of "consumer" applications to these devices via the single I/O port.

The Unified Linux Driver package provides an appropriate port sharing mechanism that is used by Samsung printer and scanner drivers. The drivers talk to their devices via so-called machine ports. The current status of any machine port can be viewed via the **Ports configuration**. The port sharing prevents you from accessing one functional block of the machine device, while another block is in use.

When you install a new machine device onto your system, it is strongly recommended you do this with the assistance of an Unified Driver Configurator. In this case you will be asked to choose I/O port for the new device. This choice will provide the most suitable configuration for machine's functionality. For machine scanners, I/O ports are being chosen by scanner drivers automatically, so proper settings are applied by default.

maintenance

This chapter provides information about maintaining your machine and the toner cartridge.

This chapter includes:

- Printing a machine report
- Adjusting the color contrast
- Finding the serial number
- Cleaning the machine
- Storing the toner cartridge
- Maintenance parts
- Tips for moving & storing your machine

PRINTING A MACHINE REPORT

You can print the machine's information and job report.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Report** appears and press **OK**.
4. Press the left/right arrow until the report or list you want to print appears. press **OK**.
To print all reports and lists, select **All Report**.
5. Press the left/right arrow to appears **Yes** at the **Print?** prompt and press **OK**.

ADJUSTING THE COLOR CONTRAST

Color menu allows you to adjust the color setting.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Maintenance** appears and press **OK**.
4. Press the left/right arrow until **Color** appears and press **OK**.
5. Press the left/right arrow until **Custom Color** appears and press **OK**.
6. Press the left/right arrow until the color menu you want to appears on display and press **OK**.

 You can adjust the contrast of each color independently. **Default** optimizes the color contrast automatically. **Manual Adjust** allows you to manually adjust the color contrast for each cartridge. **Default** setting is recommended for getting best color quality.

7. Press **Stop/Clear** to return to ready mode.

 If you have moved the machine, it is strongly recommended to operate this menu manually.

FINDING THE SERIAL NUMBER

When you call for service or register as a user on the Samsung website, the machine's serial number by taking the following steps.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Maintenance** appears and press **OK**.
4. Press the left/right arrow until **Serial Number** appears and press **OK**.
5. Check your machine's serial number.
6. Press **Stop/Clear** to return to ready mode.

CLEANING THE MACHINE

If printing quality problems occur or if you use your machine in a dusty environment, you need to clean your machine regularly to keep the most optimum print quality.

-  • Cleaning the cabinet of the machine with cleaning materials containing large amounts of alcohol, solvent or other strong substances can discolor or distort the cabinet.
- If your machine or the surrounding area is contaminated with toner, we recommend that you use a cloth or tissue dampened with water to clean it. If you use a vacuum cleaner, toner blows in the air and might be harmful if inhaled.

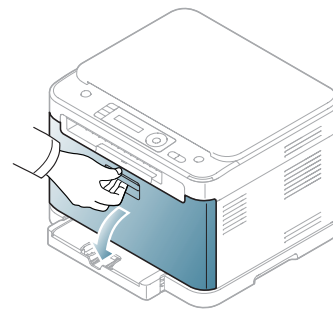
Cleaning the outside

Clean the machine cabinet with a soft and lint-free cloth. Dampen the cloth slightly with water, but be careful not to let any water drip onto or into the machine.

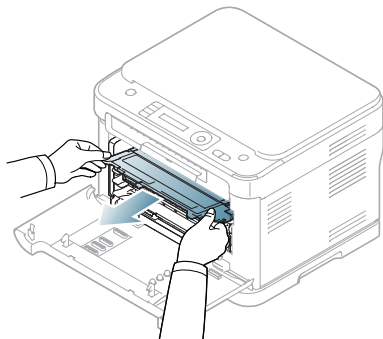
Cleaning the inside

During the printing process, paper, toner and dust particles can accumulate inside the machine. This buildup can cause print quality problems such as toner specks or smearing. Cleaning the inside of the machine clears and reduces these problems.

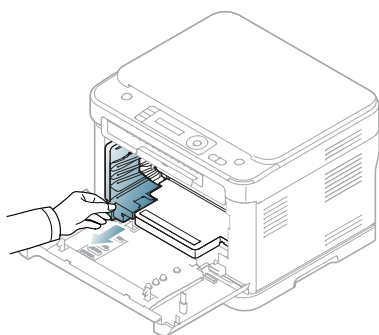
1. Turn the machine off and unplug the power cord. Wait for the machine to cool down.
2. Using the handle, completely open the front door.



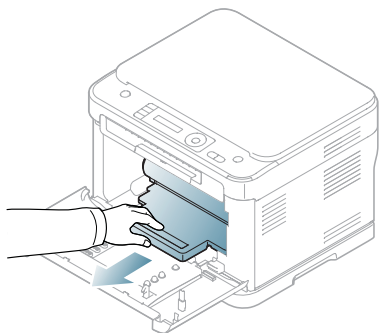
3. Grasp the handles on the toner cartridge and pull to remove four cartridges from the machine.



4. Pull the waste toner container out of the machine using the handle.

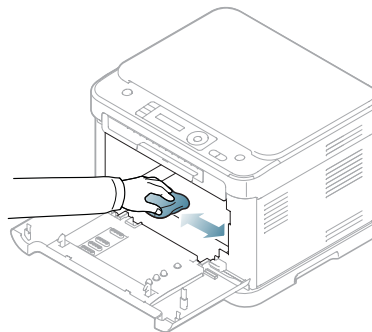


5. Pull the imaging unit out of the machine using the groove on the front of the imaging unit.



-  Do not touch the green surface of the drum located in the imaging unit. Use the handle on the cartridge to avoid touching this area.

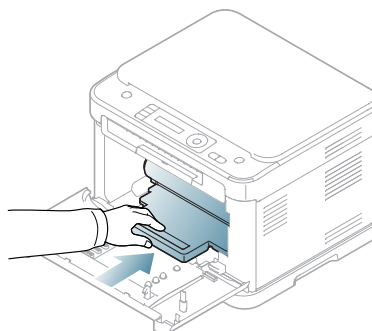
6. With a dry and lint-free cloth, wipe away any dust and spilled toner from the toner cartridges area and their cavities.



-  • If toner gets on your clothing, wipe it off with a dry cloth and wash it in cold water. Hot water sets toner into fabric.
• If your machine or its surrounding is contaminated with toner, we recommend you use a cloth or tissue dampened with water to clean. If you use a vacuum cleaner, toner blows into the air then might be harmful if inhaled.

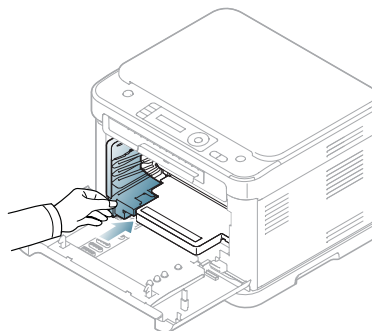
-  After cleaning, let the machine to dry completely.

7. Holding the groove on the front of the imaging unit, push imaging unit into the machine.

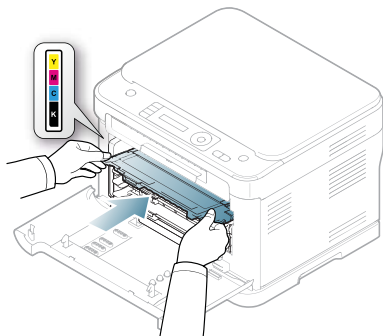


-  Do not touch the green surface of the drum located in the imaging unit. Use the handle on the cartridge to avoid touching this area.

8. Insert the waste toner container into position and then push it to make sure that it is firmly seated in place.



9. Slide four toner cartridges back into the machine.



10. Reinstall all the compartments into the machine and close the front door.

! If the front door is not completely closed, the machine will not operate.

11. Plug in the power cord and turn the machine on.

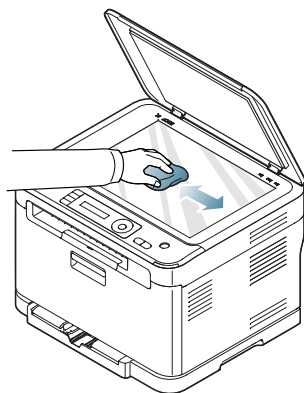
Cleaning the scan unit

Keeping the scan unit clean helps ensure the best possible copies. We suggest that you clean the scan unit at the start of each day and during the day as needed.

 The procedure may differ depending on your model. Check your model name.

The following procedure is for CLX-3185 and CLX3185N.

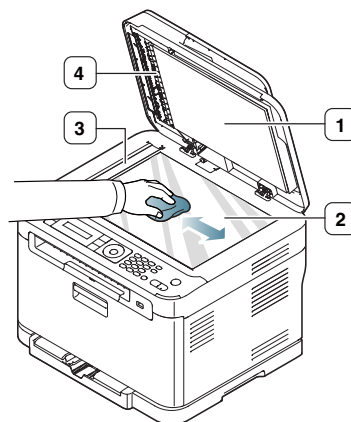
1. Slightly dampen a soft, lint-free cloth or paper towel with water.
2. Open the scanner lid.
3. Wipe the surface of the scanner glass until it is clean and dry.



4. Wipe the underside of the scanner lid and white sheet until it is clean and dry.
5. Close the scanner lid.

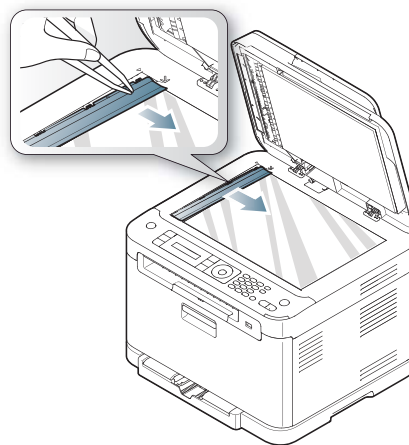
The following procedure is for CLX-3185FN and CLX-3185FW.

1. Slightly dampen a soft, lint-free cloth or paper towel with water.
2. Open the scanner lid.
3. Wipe the surface of the scanner glass until it is clean and dry.

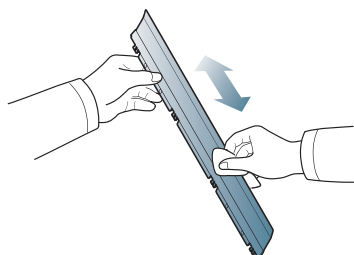


- | | |
|---|---------------|
| 1 | Scanner lid |
| 2 | Scanner glass |
| 3 | ADF sheet |
| 4 | White sheet |

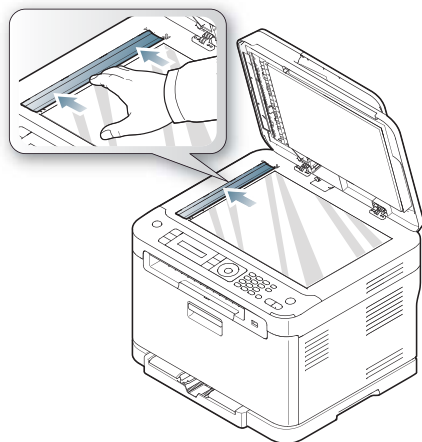
4. Wipe the underside of the scanner lid and white sheet until it is clean and dry.
5. Push the ADF sheet with any tool such as tweezers carefully.



6. Hold the edge of the ADF sheet and wipe both sides of the ADF sheet until it is clean and dry.



7. Push the ADF sheet back into the machine smoothly.



8. Close the scanner lid.

STORING THE TONER CARTRIDGE

Toner cartridges contain components that are sensitive to light, temperature and humidity. Samsung suggests users follow the recommendations to ensure the optimum performance, highest quality and longest life from your new Samsung toner cartridge.

Store this cartridge in the same environment in which the printer will be used. This should be in controlled office temperature and humidity conditions. The toner cartridge should remain in its original and unopened package until installation – If original packaging is not available, cover the top opening of the cartridge with paper and store in a dark cabinet.

Opening the cartridge package prior to use dramatically shortens its useful shelf and operating life. Do not store on the floor. If the toner cartridge is removed from the printer, follow the instruction below to store the toner cartridge properly.

- Store the cartridge inside the protective bag from the original package.
- Store lying flat (not standing on end) with the same side facing up as if it was installed in the machine.
- Do not store consumable in any of the following conditions:
 - Temperature greater than 40°C (104°F).
 - Humidity range less than 20% and not greater than 80%.
 - An environment with extreme changes in humidity or temperature.
 - Direct sunlight or room light.
 - Dusty places.
 - A car for a long period of time.
 - An environment where corrosive gases are present.
 - An environment with salty air.

Handling instructions

- Do not touch the surface of the photoconductive drum in the cartridge.
- Do not expose the cartridge to unnecessary vibrations or shock.
- Never manually rotate the drum, especially in the reverse direction; this can cause internal damage and toner spillage.

Use of non-Samsung and refilled toner cartridge

Samsung Electronics does not recommend or approve the use of non-Samsung brand toner cartridges in your printer including generic, store brand, refilled or remanufactured toner cartridges.

 Samsung's printer warranty does not cover damage to the machine caused by the use of a refilled, remanufactured or non-Samsung brand toner cartridge.

Estimated cartridge life

Estimated cartridge life (the life of the toner cartridge yield) depends on the amount of toner that print jobs require. The actual print yield may vary depending on the print density of the pages you print on, operating environment, printing interval, media type and/or media size. For example, if you print a lot of graphics, the consumption of the toner is high and you may need to change the cartridge more often.

MAINTENANCE PARTS

To avoid print quality and paper feed problems resulting from worn parts, and to maintain your machine in top working condition, the following items will need to be replaced after the specified number of pages, or when the life span of each item has expired.

ITEMS	YIELD (AVERAGE)
Fuser unit	Approx. 50,000 black pages or 12,500 color pages
Transfer roller	Approx. 50,000 black pages or 12,500 color pages
Transfer unit (ITB)	Approx. 50,000 black pages or 12,500 color pages
Pick-up roller	Approx. 50,000 pages

We highly recommend that this maintenance be performed by an authorized service provider, dealer or the retailer where you bought the machine. The warranty does not cover the replacement of the maintenance parts after their lifespan.

 The battery inside the machine is a service component. Do not change it by yourself.
There is risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local environmental guidelines. Don't puncture or incinerate the battery.

Checking replacables

If you experience frequent paper jams or printing problems, check the number of pages the machine has printed or scanned. Replace the corresponding parts, if necessary.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Maintenance** appears and press **OK**.
4. Press the left/right arrow until **Supplies Life** appears and press **OK**.
5. Press the left/right arrow until the item you want appears and press **OK**.
 - **Supplies Info:** Prints the supply information page.
 - **Total:** Displays the total number of pages printed.
 - **ADF Scan:** Displays the number of pages printed by using the ADF.
 - **Platen Scan:** Displays the number of pages scanned by using scanner glass.
 - **Imaging Unit, Transfer Belt, Fuser, Transfer Roller, Tray1 Roller:** Displays the number of pages printed by each item.
6. If you selected to print a supply information page, press **OK** to confirm.

7. Press **Stop/Clear** to return to ready mode.

TIPS FOR MOVING & STORING YOUR MACHINE

- When moving the machine, do not tilt or turn it upside down. Otherwise, the inside of the machine may be contaminated by toner, which can cause damage to the machine or reduce print quality.
- When moving the machine, make sure at least two people are holding the machine securely.

troubleshooting

This chapter gives helpful information for what to do if you encounter an error.

This chapter includes:

- Redistributing toner
- Tips for avoiding paper jams
- Clearing original document jams (CLX-3185FN/CLX-3185FW only)

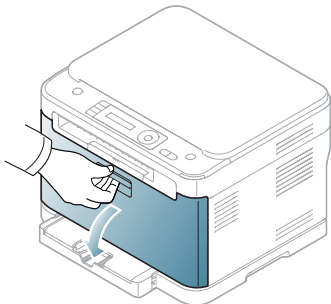
REDISTRIBUTING TONER

When the toner cartridge is near the end of its life,

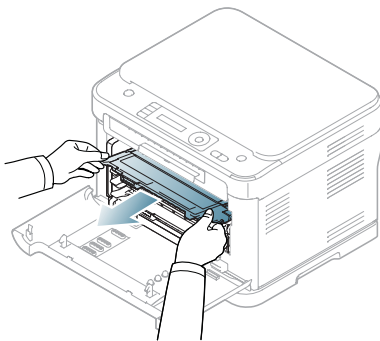
- White streaks or light printing occurs.
- **Prepare new toner** appears on the display.
- The **Status** LED blinks red.

If this happens, you can temporarily improve print quality by redistributing the remaining toner in the cartridge. In some cases, white streaks or light printing will still occur even after you have redistributed the toner.

1. Using the handle, completely open the front door.

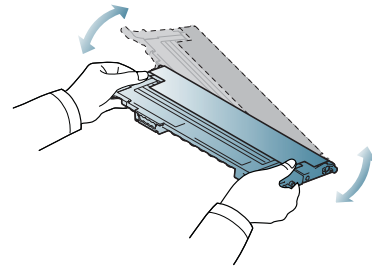


2. Grasp the handles on the toner cartridge and pull to remove the cartridge from the machine.



- Clearing paper jams
- Understanding display messages
- Solving other problems

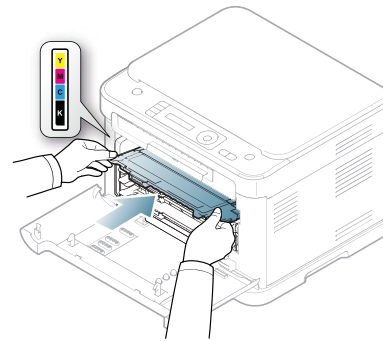
3. Thoroughly roll the cartridge five or six times to distribute the toner evenly inside the cartridge.



 If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.

 Do not touch the green underside of the toner cartridge. Use the handle on the cartridge to avoid touching this area.

4. Make sure that the color of the toner cartridge matches the color slot and then grasp the handles on the toner cartridge. Insert the cartridge until it clicks into place.



5. Close the front door. Make sure the door is securely latched.

 If the front door is not completely closed, the machine will not operate.

TIPS FOR AVOIDING PAPER JAMS

By selecting the correct media types, most paper jams can be avoided. When a paper jam occurs, refer to the guidelines below: (See "Clearing paper jams" on page 119).

- Ensure that the adjustable guides are positioned correctly (See "Loading

paper in the tray" on page 68).

- Do not overload the tray. Ensure that the paper level is below the paper capacity mark on the inside of the tray.
- Do not remove paper from the tray while your machine is printing.
- Flex, fan, and straighten paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix paper types in a tray.
- Use only recommended print media (See "Setting the paper size and type" on page 70).
- Ensure that the recommended side of the print media is facing up in the tray.

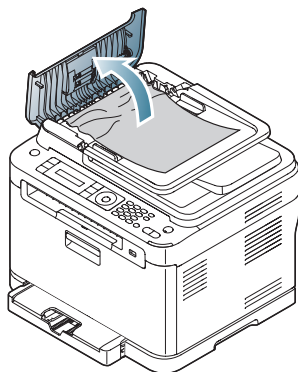
CLEARING ORIGINAL DOCUMENT JAMS (CLX-3185FN/CLX-3185FW ONLY)

When an original document jams in the document feeder, a warning message appears on the display.

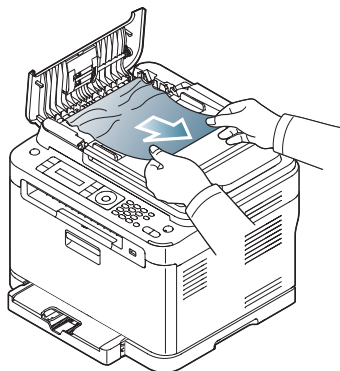
 To avoid tearing the document, remove the jammed document slowly and carefully.

 To prevent document jams, use the scanner glass for thick, thin or mixed paper-type originals.

1. Remove any remaining pages from the document feeder.
2. Open the document feeder cover.

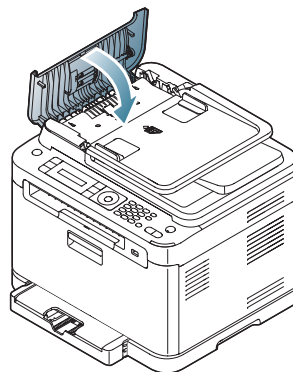


3. Gently remove the jammed paper from the document feeder.

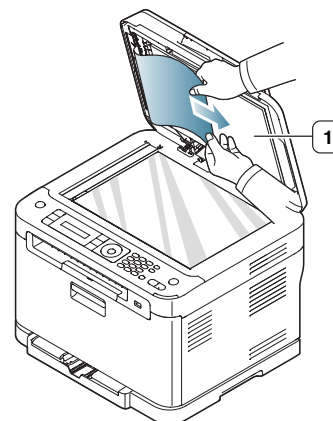


 If you see no paper in this area, go to step 5.

4. Close the document feeder cover. Reload the pages you removed, if any, in the document feeder.



5. Open the scanner lid.
6. Seize the misfeed paper, and remove the paper from the feed area by carefully pulling it to the right using both hands.



1 scanner lid

7. Close the scanner lid. Load the removed pages back into the document feeder.

CLEARING PAPER JAMS

When a paper jam occurs, the warning message appears on the display screen. Refer to the table below to locate and clear the paper jam.

MESSAGE	LOCATION OF JAM	GO TO
Paper jam in Tray 1	In the paper feed area and inside the machine	See "In the tray" on page 120.
Paper jam inside machine	Inside the machine	See "In the fuser unit area" on page 120.
Paper jam in exit area	Inside the machine and in the paper exit area	See "In the paper exit area" on page 121.

 Some messages may not appear on the display depending on options or models.

 To avoid tearing the paper, pull the jammed paper out slowly and carefully. Follow the instructions in the following sections to clear the jam.

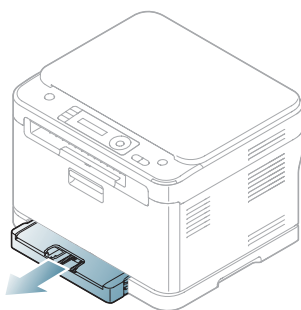
In the tray

 Click this link to open an animation about clearing a jam.

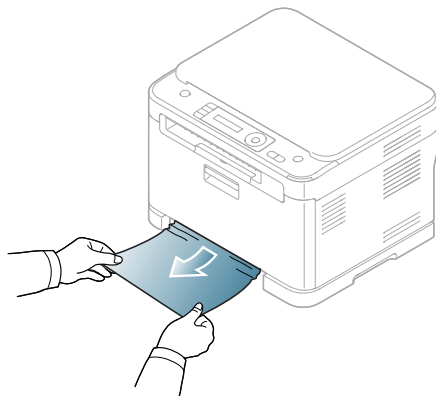
1. Open and close the front door. The jammed paper is automatically ejected from the machine.

If the paper does not eject, go to the next step.

2. Pull out tray 1 out of the machine.



3. Remove the jammed paper by gently pulling it straight out.



If the paper does not eject when you pull, or if you do not see the paper in this area, check the fuser area around the toner cartridge (See "In the fuser unit area" on page 120).

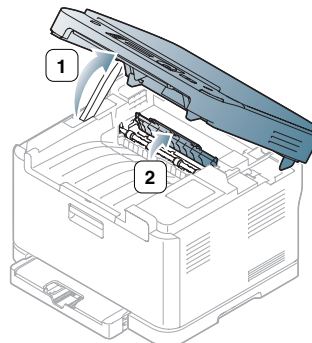
4. Insert the tray 1 back into the machine until it snaps into place. Printing automatically resumes.

In the fuser unit area

 Click this link to open an animation about clearing a jam.

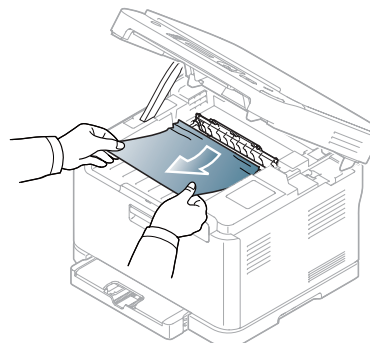
If paper is jammed in the fuser unit area, follow the next steps to release the jammed paper.

1. Open the scan unit first and then inner cover.



 Do not touch the fuser inside the inner cover. It is hot and could cause burns! Take care when removing paper from the machine.

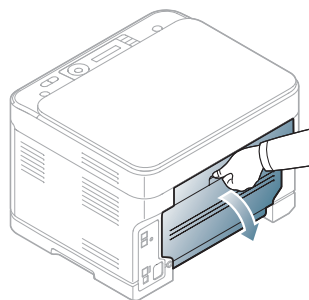
1. Holding the inner cover open, carefully take the jammed paper out of the machine. The inner cover will then close automatically. Lower down the scan unit gently until it is completely closed. Make sure that it is securely latched. Printing automatically resumes.



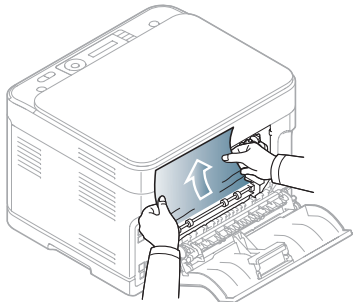
 Be careful not to pinch your fingers!

If you do not see the paper, lower down the scan unit gently until it is completely closed. Go to the next step.

2. To remove the jammed paper, open the rear door.



3. Carefully remove the paper by pulling in the direction as shown below. Most of the jammed paper can be removed in this step.

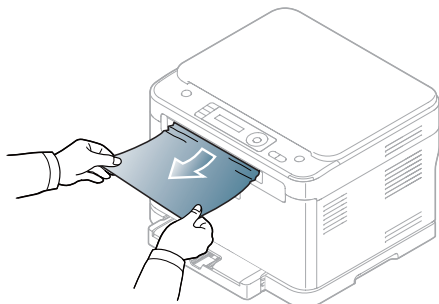


4. Close the rear door. Printing automatically resumes.

In the paper exit area

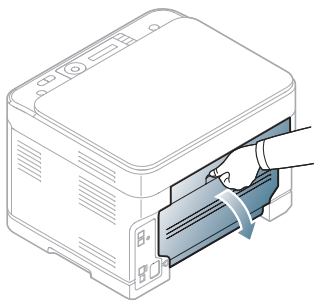
 Click this link to open an animation about clearing a jam.

1. Open and close the front door. The jammed paper is automatically ejected from the machine.
2. Gently pull the paper out the output tray.

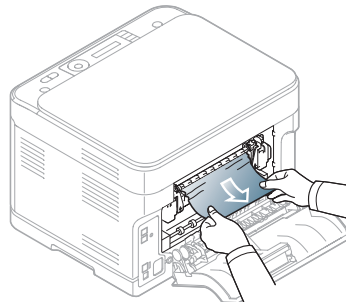


If you do not see the jammed paper or if there is any resistance when you pull, stop and go to the next step.

3. Open the rear door.

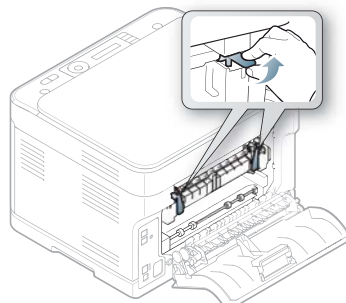


4. If you see the jammed paper, pull it straight up. Skip to step 10.



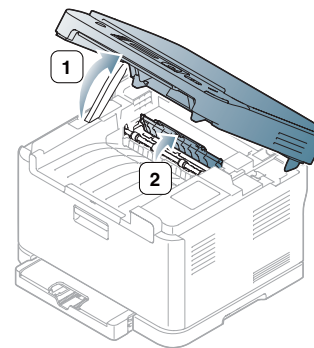
If you do not see the paper or if there is any resistance when you pull, stop and go to the next step.

5. Pull up the fuser lever.

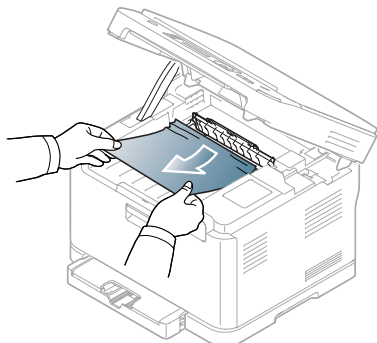


 The fuser area is hot. Take care when removing paper from the machine.

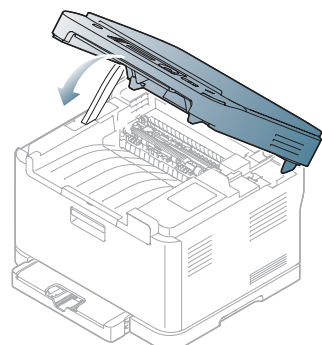
6. Open the scan unit first and then inner cover.



7. Carefully take the jammed paper out of the machine.

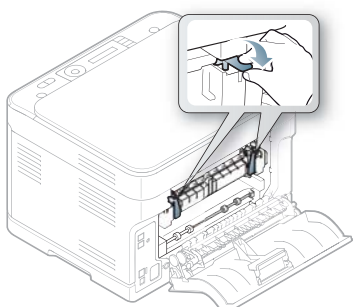


8. Lower down the scan unit gently and slowly until it completely closed. Make sure that it is securely latched.



Be careful no to pinch your fingers!

9. Pull down the fuser lever.



10. Close the rear door. Printing automatically resumes.

UNDERSTANDING DISPLAY MESSAGES

Messages appear on the control panel display to indicate the machine's status or errors. Refer to the tables below to understand the messages' and their meaning, and correct the problem, if necessary.

Checking display messages



- If a message is not in the table, reboot the power and try the printing job again. If the problem persists, call a service representative.
- When you call for service, provide the service representative with the contents of display message.
- Some messages may not appear on the display depending on the options or models.
- [error number] indicates the error number.
- [tray type] indicates the tray number.
- [media type] indicates the media type.
- [media size] indicates the media size.
- [color] indicates the color of toner or imaging unit.

MESSAGE	MEANING	SUGGESTED SOLUTIONS
[COMM. Error]	The machine has a communication problem.	Ask the sender to try again.
[Incompatible]	The machine has received a fax from which is registered as a junk fax.	The received fax data will be deleted. Reconfirm junk fax setup (See "Changing the fax setup options" on page 103).
[Line Busy]	The receiving fax machine did not answer or the line is already engaged.	Try again after a few minutes.
[Line Error]	Your machine cannot connect with the receiving fax machine or has lost contact because of a problem with the phone line.	Try again. If the problem persists, wait an hour or so for the line to clear and try again. Or, Turn the ECM mode on (See "Fax setup (CLX-3185FN/CLX-3185 FW only)" on page 103).
BOOTP problem Auto IP Run	The IP address assignment is failed. This happens when Auto IP for BOOTP is set in SyncThru Web Service.	Change the IP address assignment method to DHCP or Static. If you do not change this option, the BOOTP server continually asks to assign the IP address.
BOOTP problem Reconfigure DHCP	The IP address assignment is failed. This happens when Auto IP for BOOTP is not set in SyncThru Web Service.	Change the IP address assignment method to DHCP or Static. If you do not change this option, the BOOTP server continually asks to assign the IP address.

MESSAGE	MEANING	SUGGESTED SOLUTIONS
DHCP problem: Auto IP Run	The IP address assignment is failed. This happens when Auto IP for DHCP is set in SyncThru Web Service.	Change the IP address assignment method to BOOTP or Static. If you do not change this option, the DHCP server continually asks to assign the IP address.
DHCP problem Reconfigure BOOTP	The IP address assignment is failed. This happens when Auto IP for DHCP is not set SyncThru Web Service.	Change the IP address assignment method to BOOTP or Static. If you do not change this option, the DHCP server continually asks to assign the IP address.
Document Jam. Remove Jam	The loaded original document has jammed in the ADF.	Clear the jam (See "Clearing original document jams (CLX-3185FN/CLX-3185 FW only)" on page 119).
Door Open Close it	The front door is not securely latched.	Close the door until it locks into place.
Error [error number] Call for service	A system error has occurred.	Turn the power button off and on. If the problem persists, call a service representative.
Error [error number] Turn off then on	A system error has occurred.	Turn the power button off and on. If the problem persists, call a service representative.
Install Toner ▼	The toner cartridge is installed improperly or not installed.	Reinstall the toner cartridge two or three times to confirm it is seated properly. If the problem persists, the toner cartridge is not being detected. Contact the service representatives.
Memory Full Remove Job	The memory is full.	Press the left/right arrow to highlight Cancel or Start , then press OK . If you select Cancel , the machine stops the fax job. If you select Start , the machine only sends scanned documents of the fax job.
Network Problem: IP Conflict	The IP address is used elsewhere.	Check the IP address or obtain a new IP address.
No Answer	The receiving fax machine has not answered after several redial attempts.	Try again. Make sure that the receiving machine is operational.

MESSAGE	MEANING	SUGGESTED SOLUTIONS
Not Compatible [color] toner	The toner cartridge is not suitable for your machine.	Install the corresponding toner cartridge with a Samsung-genuine cartridge (See "Replacing the toner cartridge" on page 136).
Not installed Waste tank	The waste toner container is not installed.	Install the waste toner container.
Not original [color] toner	The toner cartridge is not a Samsung-genuine toner cartridge.	Install the corresponding toner cartridge with a Samsung-genuine cartridge (See "Replacing the toner cartridge" on page 136).
Output bin full Remove media	The output tray is full. Or the sensor is not facing down.	Remove papers from the output tray, the machine resumes printing. Or make sure the sensor is facing down. If the problem persists, call a service representative.
Paper Empty in Tray1	There is no paper in tray 1.	Load paper in tray 1 (See "Loading paper in the tray" on page 68).
Paper jam in exit area	Paper has jammed in the paper exit area.	Clear the jam (See "In the paper exit area" on page 121).
Paper jam in Tray 1	Paper has jammed in the Tray 1 area.	Clear the jam (See "In the tray" on page 120).
Paper jam inside machine	Paper has jammed inside the machine.	Clear the jam (See "In the fuser unit area" on page 120).
Prepare IMG unit ▼	The estimated life of imaging unit is close.	Prepare a imaging unit for replacement (See "Available supplies" on page 135).
Prepare new Transfer belt	The estimated life of transfer unit (ITB) is close.	The estimated life of a transfer unit (ITB) is close (See "Available maintenance parts" on page 135).
Remove seal tape & Install Toner	The machine cannot detect a toner cartridge.	Remove the sealing tape from the toner cartridge. Refer to the Quick Installation Guide.
Replace new Transfer belt	The transfer unit (ITB) has almost reached its estimated life.	Prepare the transfer unit (ITB) with a new one (See "Available maintenance parts" on page 135).

MESSAGE	MEANING	SUGGESTED SOLUTIONS
Replace new Transfer roller	The transfer roller has almost reached its estimated life.	Replace the transfer roller with a new one (See "Available maintenance parts" on page 135).
Prepare toner ▼	Small amount of toner is left in the indicated cartridge. The estimated cartridge life of toner is close.	Prepare a new cartridge for a replacement. You may temporarily increase the printing quality by redistributing the toner (See "Redistributing toner" on page 118).
Replace Fuser soon	The estimated life of fuser unit is close.	Prepare a fuser unit for replacement (See "Available maintenance parts" on page 135).

MESSAGE	MEANING	SUGGESTED SOLUTIONS
Replace Toner ▼	The indicated toner cartridge has almost reached its estimated cartridge life. The machine might stop printing.  Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19798.	- If Stop, Continue or Mono Only appears in the LCD display, choose one of them. If you select Stop, the machine stops printing and you cannot print anymore without changing the cartridge. If you select Continue, the machine keeps printing but the printing quality cannot be guaranteed. If you select Mono Only, the machine prints the data in black only. Replace the toner cartridge for the best print quality when this message appears. Using a cartridge beyond this stage can result in printing quality issues (See "Replacing the toner cartridge" on page 136).  Samsung does not recommend using non-genuine Samsung toner cartridge such as refilled or remanufactured. Samsung cannot guarantee non-genuine Samsung toner cartridge's quality. Service or repair required as a result of using non-genuine Samsung toner cartridges will not be covered under the machine warranty. - If the machine stops printing, replace the toner cartridge (See "Replacing the toner cartridge" on page 136).

MESSAGE	MEANING	SUGGESTED SOLUTIONS
Replace new Fuser unit	The fuser unit has almost reached its estimated life.	Replace the fuser unit with a new one (See "Available maintenance parts" on page 135).
Replace IMG unit ▼	The imaging unit has almost reached its estimated life.	Replace the imaging unit with a new one (See "Replacing the imaging unit" on page 137).
Self Diagnostics Please wait	The engine in your printer is checking some problems detected.	Please wait a few minutes.
Toner Supply Err. ▼	The machine cannot detect a toner cartridge.	Remove the toner hopper sheet from the toner cartridge (See "Replacing the toner cartridge" on page 136).
Too many Faxes Remove Job	Too many faxes are received.	Remove received faxes.

SOLVING OTHER PROBLEMS

The following chart lists some trouble conditions that may occur and the recommended solutions. Follow the suggested solutions until the problem is corrected. If the problem persists, contact a service representative.

Other problems include:

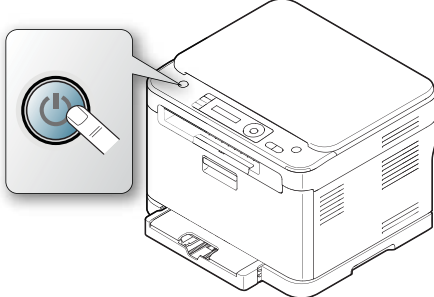
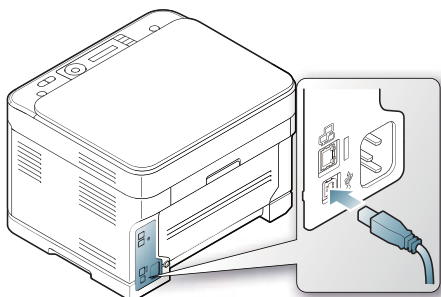
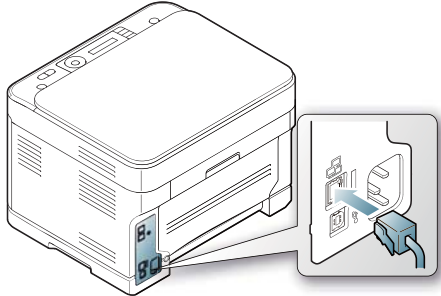
- See "System problems" on page 125.
- See "Power problems" on page 125.
- See "Paper feeding problems" on page 126.
- See "Printing problems" on page 127.
- See "Printing quality problems" on page 128.
- See "Common Windows problems" on page 132.
- See "Common Linux problems" on page 133.
- See "Common Macintosh problems" on page 134.

System problems

CONDITION	SUGGESTED SOLUTIONS
The red error light is on.	Turn the machine on/off. If the problem persists, contact a service representative (See "Contact SAMSUNG worldwide" on page 143").  The machine is experiencing problems that require service such as LSU error or fuser error.

Power problems

 Click this link to open an animation about solving power problems.

CONDITION	SUGGESTED SOLUTIONS
The machine is not receiving power, or the connection cable between the computer and the machine is not connected properly.	- Plug in the power cord and press  (power) on the control panel.  - Disconnect the machine cable and reconnect it. For Local Printing  For Network Printing (CLX-3185N/CLX-3185FN/CLX-3185FW only) 

CONDITION	SUGGESTED SOLUTIONS
Paper sticks together.	- Ensure there is not too much paper in the tray. The tray can hold up to 130 sheets of paper, depending on the thickness of your paper. - Make sure that you are using the correct type of paper (See "Setting the paper size and type" on page 70). - Remove paper from the tray and flex or fan the paper. - Humid conditions may cause some paper to stick together, replace with a new stack.
Multiple sheets of paper do not feed.	Different types of paper may be stacked in the tray. Load paper of only one type, size and weight.
Paper does not feed into the machine.	- Remove any obstructions from inside the machine. - Paper has not been loaded correctly. Remove paper from the tray and reload it correctly. - There is too much paper in the tray. Remove excess paper from the tray. - The paper is too thick. Use only paper that meets the specifications required by the machine (See "Selecting print media" on page 66).
The paper keeps jamming.	- There is too much paper in the tray. Remove excess paper from the tray. - An incorrect type of paper is being used. Use only paper that meets the specifications required by the machine (See "Selecting print media" on page 66). - There may be debris inside the machine. Open the front door and remove any debris.
Envelopes skew or fail to feed correctly.	Ensure that the paper guides are against both sides of the envelopes.

Paper feeding problems

CONDITION	SUGGESTED SOLUTIONS
Paper jams during printing.	Clear the paper jam (See "Clearing paper jams" on page 119).

Printing problems

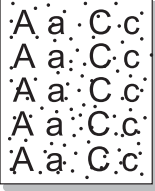
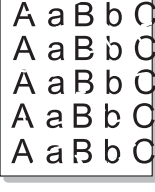
CONDITION	POSSIBLE CAUSE	SUGGESTED SOLUTIONS
The machine does not print.	The machine is not receiving power.	Check the power cord connections. Check the power switch and the power source.
	The machine is not selected as the default machine.	Select your machine as your default machine in your Windows.
	Check the machine for the following. - The front door or rear door is not closed. Close the door. - Paper is jammed. Clear the paper jam (See "Clearing paper jams" on page 119). - No paper is loaded. Load paper (See "Loading paper in the tray" on page 68). - The toner cartridge is not installed. Install the toner cartridge. If a system error occurs, contact a service representative.	
	The connection cable between the computer and the machine is not connected properly.	Disconnect the machine cable and reconnect it.
	The connection cable between the computer and the machine is defective.	If possible, attach the cable to another computer that is working properly and print a job. You can also try using a different machine cable.
	The port setting is incorrect.	Check the Windows printer setting to make sure that the print job is sent to the correct port. If the computer has more than one port, make sure that the machine is attached to the correct one.
	The machine may be configured incorrectly.	Check the Printing Preferences to ensure that all of the print settings are correct (See "Opening printing preferences" on page 72).
	The printer driver may be incorrectly installed.	Repair the machine software (See "Installing USB connected machine's driver" on page 40).
	The machine is malfunctioning.	Check the display message on the control panel to see if the machine is indicating a system error. If the error cannot be cleared, contact a service representative.

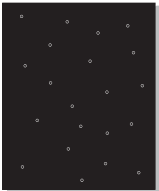
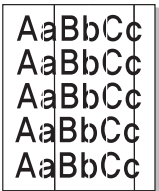
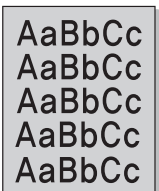
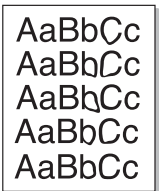
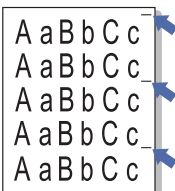
CONDITION	POSSIBLE CAUSE	SUGGESTED SOLUTIONS
The machine does not print.	The document size is so big that the hard disk space of the computer is not enough to access the print job.	Allocate more hard disk space on your computer for spooling, and try printing.
The machine selects print materials from the wrong paper source.	The paper source selection in the printer properties may be incorrect.	For many software applications, the paper source selection is found under the Paper tab within the printer properties. Select the correct paper source. See the printer driver help screen.
A print job is extremely slow.	The job may be very complex.	Reduce the complexity of the page or try adjusting the print quality settings.
Half the page is blank.	The page orientation setting may be incorrect.	Change the page orientation in your application. See the printer driver help screen.
	The paper size and the paper size settings do not match.	Ensure that the paper size in the printer driver settings matches the paper in the tray. Or, ensure that the paper size in the printer driver settings matches the paper selection in the software application settings you use.
The machine prints, but the text is wrong, garbled or incomplete.	The machine cable is loose or defective.	Disconnect the machine cable and reconnect. Try a print job that you have already printed successfully. If possible, attach the cable and the machine to another computer and try a print job that you know works. Finally, try a new printer cable.
	The wrong printer driver was selected.	Check the application's printer selection menu to ensure that your machine is selected.
	The software application is malfunctioning.	Try printing a job from another application.
	The operating system is malfunctioning.	Exit Windows and reboot the computer. Turn the machine off and back on again.

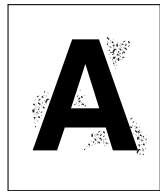
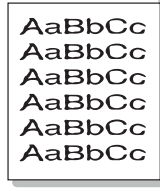
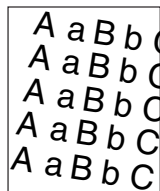
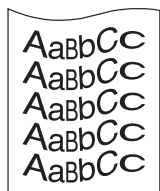
CONDITION	POSSIBLE CAUSE	SUGGESTED SOLUTIONS
Pages print, but they are blank.	The toner cartridge is defective or out of toner.	Redistribute the toner, if necessary (See "Redistributing toner" on page 118). If necessary, replace the toner cartridge (See "Replacing the toner cartridge" on page 136).
	The file may have blank pages.	Check the file to ensure that it does not contain blank pages.
	Some parts such as the controller or the board may be defective.	Contact a service representative.
The machine does not print PDF file correctly. Some graphics, text or illustrations are missing.	Incompatibility between the PDF file and the Acrobat products	Printing the PDF file as an image may solve this problem. Turn on Print As Image from the Acrobat printing options.  It will take longer to print when you print a PDF file as an image.
The print quality of photos is not good. Images are not clear.	The resolution of the photo is very low.	Reduce the photo size. If you increase the photo size in the software application, the resolution will be reduced.
Before printing, the machine emits vapor near the output tray.	Using damp paper can cause vapor during printing.	This is not a problem. Just keep printing.
The printed billing paper is curled.	The paper type setting does not match.	Change the printer option and try again. Go to Printing Preferences , click Paper tab, and set type to Thick (See "Opening printing preferences" on page 72).

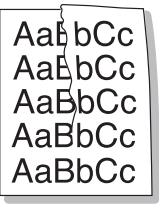
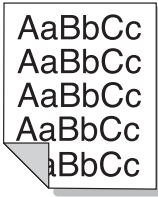
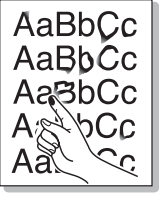
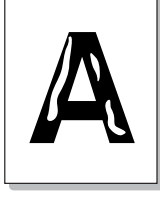
Printing quality problems

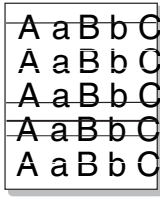
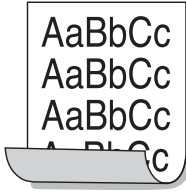
If the inside of the machine is dirty or paper has been loaded improperly, you may notice a reduction in print quality. See the table below to clear the problem.

CONDITION	SUGGESTED SOLUTIONS
Light or faded print 	If a vertical white streak or faded area appears on the page: - The toner supply is low. You may be able to temporarily extend the toner cartridge life (See "Redistributing toner" on page 118). If this does not improve the print quality, install a new toner cartridge. - The paper may not meet paper specification; for example, the paper may be too moist or rough (See "Selecting print media" on page 66). - If the entire page is light, the print resolution setting is too low or the toner save mode is on. Adjust the print resolution and turn the toner save mode off. See the help screen of the printer driver. - A combination of faded or smeared defects may indicate that the toner cartridge needs cleaning. - The surface of the LSU part inside the machine may be dirty. Clean the LSU, contact a service representative.
Toner specks 	- The paper may not meet specification, for example, the paper may be too moist or rough (See "Selecting print media" on page 66). - The paper path may need cleaning (See "Cleaning the inside" on page 113).
Dropouts 	If faded areas, generally rounded, occur randomly on the page: - A single sheet of paper may be defective. Try reprinting the job. - The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper (See "Selecting print media" on page 66). - The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper. - Change the printer option and try again. Go to Printing Preferences, click Paper tab, and set type to Thick (See "Opening printing preferences" on page 72). If these steps do not correct the problem, contact a service representative.

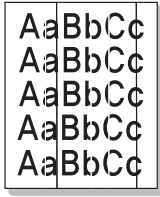
CONDITION	SUGGESTED SOLUTIONS
White Spots 	If white spots appear on the page: - The paper is too rough and a lot of dirt from a paper falls to the inner devices within the machine, which means the transfer belt may be dirty. Clean the inside of your machine. Contact a service representative. - The paper path may need cleaning. Contact a service representative.
Vertical lines 	If black vertical streaks appear on the page: - The drum inside the toner cartridge has probably been scratched. Remove the toner cartridge and install a new one (See "Replacing the toner cartridge" on page 136). If white vertical streaks appear on the page: - The surface of the LSU part inside the machine may be dirty. Clean the LSU, contact a service representative.
Black background 	If the amount of background shading becomes unacceptable: - Change to a lighter weight paper (See "Selecting print media" on page 66). - Check the environmental conditions: very dry (low humidity) or high humidity (higher than 80% RH) conditions can increase the amount of background shading. - Remove the old toner cartridge and, install a new one (See "Replacing the toner cartridge" on page 136).
Toner smear 	- Clean the inside of the machine (See "Cleaning the inside" on page 113). - Check the paper type and quality (See "Selecting print media" on page 66). - Remove the toner cartridge and then, install a new one (See "Replacing the toner cartridge" on page 136).
Vertical repetitive defects 	If marks repeatedly appear on the printed side of the page at even intervals: - The toner cartridge may be damaged. If a repetitive mark occurs on the page, print a cleaning sheet several times to clean the cartridge. After the printout, if you still have the same problems, remove the toner cartridge and install a new one (See "Replacing the toner cartridge" on page 136). - Parts of the machine may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. - The fusing assembly may be damaged. Contact a service representative.

CONDITION	SUGGESTED SOLUTIONS
Background scatter 	Background scatter results from bits of toner randomly distributed on the printed page. - The paper may be too damp. Try printing with a fresh ream of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture. - If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. - If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or the printer properties.
Misformed characters 	- If characters are improperly formed and producing hollow images, the paper stock may be too slick. Try different paper (See "Selecting print media" on page 66). - If characters are improperly formed and producing a wavy effect, the scanner unit may need service. For service, contact a service representative.
Page skew 	- Ensure that the paper is loaded properly. - Check the paper type and quality (See "Selecting print media" on page 66). - Ensure that the paper or other material is loaded correctly and the guides are not too tight or too loose against the paper stack.
Curl or wave 	- Ensure that the paper is loaded properly. - Check the paper type and quality. Both high temperature and humidity can cause paper curl (See "Selecting print media" on page 66). - Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.

CONDITION	SUGGESTED SOLUTIONS
Wrinkles or creases 	- Ensure that the paper is loaded properly. - Check the paper type and quality (See "Selecting print media" on page 66). - Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.
Back of printouts are dirty 	Check for leaking toner. Clean the inside of the machine (See "Cleaning the inside" on page 113).
Solid Color or Black pages 	- The toner cartridge may not be installed properly. Remove the cartridge and reinsert it. - The toner cartridge may be defective and need replacing. Remove the toner cartridge and install a new one (See "Replacing the toner cartridge" on page 136). - The machine may require repair. Contact a service representative.
Loose toner 	- Clean the inside of the machine (See "Cleaning the inside" on page 113). - Check the paper type and quality (See "Selecting print media" on page 66). - Remove the toner cartridge and install a new one (See "Replacing the toner cartridge" on page 136). - If the problem persists, the machine may require repair. Contact a service representative.
Character Voids 	Character voids are white areas within parts of characters that should be solid black. - If you are using transparencies, try another type of transparency. Because of the composition of transparencies, some character voids are normal. - You may be printing on the wrong surface of the paper. Remove the paper and turn it over. - The paper may not meet paper specifications (See "Selecting print media" on page 66).

CONDITION	SUGGESTED SOLUTIONS
Horizontal stripes 	If horizontally aligned black streaks or smears appear: - The toner cartridge may be installed improperly. Remove the cartridge and reinsert it. - The toner cartridge may be defective. Remove the toner cartridge and install a new one (See "Replacing the toner cartridge" on page 136). - If the problem persists, the machine may require repair. Contact a service representative.
Curl 	If the printed paper is curled or paper does not feed into the machine: - Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray. - Change the printer option and try again. Go to printer properties, click Paper tab and set type to Thin Paper (See "Opening printing preferences" on page 72).
An unknown image repetitively appears on a few sheets or loose toner, light print, or contamination occurs.	Your machine is probably being used at an altitude of 1,000 m (3,281 ft.) or above. The high altitude may affect the print quality such as loose toner or light imaging. You can select a correct altitude of your machine location (See "Altitude adjustment" on page 61).

Copying problems

CONDITION	SUGGESTED SOLUTION
Copies are too light or too dark.	Use Darkness in Copy feature to lighten or darken the backgrounds of copies (See "Changing the settings for each copy" on page 79).
Smears, lines, marks, or spots appear on copies. 	- If the defects are on the original, use Darkness in Copy feature to lighten the background of your copies (See "Changing the settings for each copy" on page 79). - If there are no defects on the original, clean the scan unit (See "Cleaning the scan unit" on page 115).
Copy image is skewed.	- Ensure that the original is face down on the scanner glass. - Check that the copy paper is loaded correctly.
Blank copies print out.	Ensure that the original is face down on the scanner glass.

CONDITION	SUGGESTED SOLUTION
Image rubs off the copy easily.	- Replace the paper in the tray with paper from a new package. - In high humidity areas, do not leave paper in the machine for extended periods of time.
Frequent copy paper jams occur.	- Fan the stack of paper, then turn it over in the tray. Replace the paper in the tray with a fresh supply. Check/adjust the paper guides, if necessary. - Ensure that the paper is the proper paper weight. - Check for copy paper or pieces of copy paper remaining in the machine after a paper jam has been cleared.
Toner cartridge produces fewer copies than expected before running out of toner.	- Your originals may contain pictures, solids, or heavy lines. For example, your originals may be forms, newsletters, books, or other documents that use more toner. - The scanner lid may be left open while copies are being made. - Turn the machine off and back on.

Scanning problems

CONDITION	SUGGESTED SOLUTIONS
The scanner does not work.	- Make sure that you place the original to be scanned face down on the scanner glass. - There may not be enough available memory to hold the document you want to scan. Try the Prescan function to see if that works. Try lowering the scan resolution rate. - Check that the machine cable is connected properly. - Make sure that the machine cable is not defective. Switch the cable with a known good cable. If necessary, replace the cable. - Check that the scanner is configured correctly. Check scan setting in the SmarThru or the application you want to use to make certain that the scanner job is being sent to the correct port (for example, USB001).
The unit scans very slowly.	- Check if the machine is printing received data. If so, scan the document after the received data has been printed. - Graphics are scanned more slowly than text. - Communication speed slows in scan mode because of the large amount of memory required to analyze and reproduce the scanned image. Set your computer to the ECP printer mode through BIOS setting. It will help to increase the speed. For details about how to set BIOS, refer to your computer user's guide.

CONDITION	SUGGESTED SOLUTIONS
Message appears on your computer screen: Device can't be set to the H/W mode you want. Port is being used by another program. Port is Disabled. Scanner is busy receiving or printing data. When the current job is completed, try again. Invalid handle. Scanning has failed.	- There may be a copying or printing job in progress. Try your job again when that job is finished. - The selected port is currently being used. Restart your computer and try again. - The machine cable may be improperly connected or the power may be off. - The scanner driver is not installed or the operating environment is not set up properly. - Ensure that the machine is properly connected and the power is on, then restart your computer. - The USB cable may be improperly connected or the power may be off.

Fax problems

CONDITION	SUGGESTED SOLUTIONS
The machine is not working, there is no display, or the buttons are not working.	- Unplug the power cord and plug it in again. - Ensure that there is power being supplied to the electrical outlet.
No dial tone.	- Check that the phone line is properly connected. - Check that the phone socket on the wall is working by plugging in another phone.
The numbers stored in memory do not dial correctly.	Make sure that the numbers are stored in memory correctly. Print an Address Book list (See "Setting up Address Book" on page 97).
The original does not feed into the machine.	- Make sure that the paper is not wrinkled and you are inserting it in correctly. Check that the original is the right size, not too thick or thin. - Make sure that the document feeder is firmly closed. - The document feeder rubber pad may need to be replaced. Contact a service representative.
Faxes are not received automatically.	- The receiving mode should be set to fax. - Make sure that there is paper in the tray. - Check to see if the display shows any error message. If it does, clear the problem.
The machine does not send.	- Make sure that the original is loaded in the document feeder or on the scanner glass. - Check the fax machine you are sending to, to see if it can receive your fax.

CONDITION	SUGGESTED SOLUTIONS
The incoming fax has blank spaces or is of poor-quality.	- The fax machine sending you the fax may be faulty. - A noisy phone line can cause line errors. - Check your machine by making a copy. - A toner cartridge has reached its estimated cartridge life. Replace the toner cartridge (See "Replacing the toner cartridge" on page 136).
Some of the words on an incoming fax are stretched.	The fax machine sending the fax had a temporary document jam.
There are lines on the originals you sent.	Check your scan unit for marks and clean it (See "Cleaning the scan unit" on page 115).
The machine dials a number, but the connection with the other fax machine fails.	The other fax machine may be turned off, out of paper, or cannot answer incoming calls. Speak with the other machine operator and ask her/him to solve out the problem.
Faxes do not store in memory.	There may not be enough memory space to store the fax. If the display indicating the memory status shows, delete any faxes you no longer need from the memory, and then try to store the fax again. Call a service representative.
Blank areas appear at the bottom of each page or on other pages, with a small strip of text at the top	You may have chosen the wrong paper settings in the user option setting. For details about paper settings, see "Setting the paper size and type" on page 70.

Samsung Scan and Fax Manager Problem

CONDITION	SUGGESTED SOLUTION
Samsung Scan and Fax Manager does not work.	Check your system requirements. Samsung Scan and Fax Manager works in Windows and Mac OS (See "System requirements" on page 39).

Common Windows problems

CONDITION	SUGGESTED SOLUTIONS
"File in Use" message appears during installation.	Exit all software applications. Remove all software from the printer's startup group, then restart Windows. Reinstall the printer driver.
"General Protection Fault", "Exception OE", "Spool 32" or "Illegal Operation" messages appear.	Close all other applications, reboot Windows and try printing again.

CONDITION	SUGGESTED SOLUTIONS
"Fail To Print", "A printer timeout error occurred" messages appear.	These messages may appear during printing. Just keep waiting until the machine finishes printing. If the message appears in standby mode or after printing has been completed, check the connection and/or whether an error has occurred.



Refer to the Microsoft Windows User's Guide that came with your computer for further information on Windows error messages.

Common Linux problems

CONDITION	SUGGESTED SOLUTIONS
The machine does not print.	- Check if the printer driver is installed in your system. Open Unified Driver Configurator and switch to the Printers tab in Printers configuration window to look at the list of available machines. Make sure that your machine is displayed on the list. If not, open Add new printer wizard to set up your device. - Check if the machine is started. Open Printers configuration and select your machine on the printers list. Look at the description in the Selected printer pane. If its status contains Stopped string, press the Start button. After that normal operation of the machine should be restored. The "stopped" status might be activated when some problems in printing occurred. For instance, this could be an attempt to print a document when the port is claimed by a scanning application. - Ensure the port is not busy. Since functional components of machine (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different user applications to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other user will encounter "device busy" response. You should open ports configuration and select the port assigned to your machine. In the Selected port pane you can see if the port is occupied by some other application. If this is the case, you should either wait for completion of the current job or press the Release port button, if you are sure that the present application is not functioning properly. - Check if your application has special print option such as "-oraw". If "-oraw" is specified in the command line parameter, then remove it to print properly. For Gimp front-end, select "print" -> "Setup printer" and edit command line parameter in the command item. - The CUPS (Common Unix Printing System) version distributed with SuSE Linux 9.2 (cups-1.1.21) has a problem with ipp (Internet Printing Protocol) printing. Use the socket printing instead of ipp or install a later version of CUPS (cups-1.1.22 or higher).
The machine does not print whole pages, and output is printed on half the page.	It is a known problem that occurs when a color machine is used on version 8.51 or earlier of Ghostscript, 64-bit Linux OS, and has been reported to bugs.ghostscript.com as Ghostscript Bug 688252. The problem is solved in AFPL Ghostscript v. 8.52 or above. Download the latest version of AFPL Ghostscript from http://sourceforge.net/projects/ghostscript/ and install it to solve this problem.

CONDITION	SUGGESTED SOLUTIONS
I cannot scan via Gimp Front-end.	Check if Gimp Front-end has Xsane: Device dialog on the Acquire menu. If not, you should install Xsane plug-in for Gimp on the your computer. You can find Xsane plug-in package for Gimp on Linux distribution CD or Gimp home page. For the detailed information, refer to the Help for Linux distribution CD or Gimp Front-end application. If you wish to use another kind of scan application, refer to application's Help.
I encounter the "Cannot open port device file" error when printing a document.	Avoid changing print job parameters (via LPR GUI, for example) while a print job is in progress. Known versions of CUPS server break the print job whenever print options are changed and then try to restart the job from the beginning. Since Unified Linux Driver locks the port while printing, the abrupt termination of the driver keeps the port locked and unavailable for subsequent print jobs. If this situation occurs, try to release the port by selecting Release port in Port configuration window.
The machine does not appear on the scanners list.	- Ensure your machine is attached to your computer, connected properly via the USB port, and is turned on. - Ensure the scanner driver for your machine is installed in your system. Open Unified Linux Driver configurator, switch to Scanners configuration, then press Drivers. Make sure that driver with a name corresponding to your machine's name is listed in the window. - Ensure the port is not busy. Since functional components of machine (printer and scanner) share the same I/O interface (port), the situation of simultaneous access of different user applications to the same port is possible. To avoid possible conflicts, only one of them at a time is allowed to gain control over the device. The other user will encounter "device busy" response. This usually happens when starting a scan procedure. An appropriate message box appears. To identify the source of the problem, open the Ports configuration and select the port assigned to your scanner, port's symbol /dev/mfp0 corresponds to LP:0 designation displayed in the scanners' options, /dev/mfp1 relates to LP:1, and so on. USB ports start at /dev/mfp4, so scanner on USB:0 relates to /dev/mfp4 respectively and so forth sequentially. In the Selected port pane, you can see if the port is occupied by another application. If this is the case, you should either wait for completion of the current job or press the Release port button, if you are sure that the present port application is not functioning properly.

CONDITION	SUGGESTED SOLUTIONS
The machine does not scan.	• Ensure a document is loaded into the machine, ensure your machine is connected to the computer. • If there is an I/O error while scanning.

 Refer to the Linux User's Guide that came with your computer for further information on Linux error messages.

Common Macintosh problems

CONDITION	SUGGESTED SOLUTIONS
The machine does not print PDF files correctly. Some parts of graphics, text, or illustrations are missing.	Printing the PDF file as an image may enable the file to print. Turn on Print As Image from the Acrobat printing options.  It will take longer to print when you print a PDF file as an image.
The document has printed, but the print job has not disappeared from the spooler in Mac OS X 10.3.2.	Update your Mac OS to Mac OS X 10.3.3. or higher.
Some letters are not displayed normally during the cover page printing.	Mac OS cannot create the font during the cover page printing. The English alphabet and numbers are displayed normally on the cover page.
When printing a document in Mac OS with Acrobat Reader 6.0 or higher, colors print incorrectly.	Make sure that the resolution setting in your machine driver matches the one in Acrobat Reader.

 Refer to the Macintosh User's Guide that came with your computer for further information on Macintosh error messages.

supplies and accessories

This chapter provides information about purchasing supplies, accessories and maintenance parts available for your machine.

This chapter includes:

- How to purchase
- Available supplies
- Available maintenance parts
- Checking replaceable's lifespan

- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your model name.
- Available accessories may differ from country to country. Contact your sales representatives to obtain the list of available supplies and maintenance parts.

HOW TO PURCHASE

To order Samsung-authorized supplies, accessories and maintenance parts, contact your local Samsung dealer or the retailer where you purchased your machine. You can also visit www.samsung.com/supplies, and then select your country/region to obtain the information on calling for service.

AVAILABLE SUPPLIES

When supplies reach their lifespan, you can order the following types of supplies for your machine.

TYPE	AVERAGE YIELD ^a	PART NAME
Standard yield toner cartridge	• Average continuous black cartridge yield: 1,500 standard pages (Black) • Average continuous black cartridge yield: 1,000 standard pages (Yellow/Magenta/Cyan)	K407(CLT-K407S): Black C407(CLT-C407S): Cyan M407(CLT-M407S): Magenta Y407(CLT-Y407S): Yellow Region A^b K4072(CLT-K4072S): Black C4072(CLT-C4072S): Cyan M4072(CLT-M4072S): Magenta Y4072(CLT-Y4072S): Yellow Region B^c K4073(CLT-K4073S): Black C4073(CLT-C4073S): Cyan M4073(CLT-M4073S): Magenta Y4073(CLT-Y4073S): Yellow
Imaging unit	Approx. 24,000 images ^d	CLT-R407
Waste toner container	Approx. 10,000 images ^d (Full color 5% image)	CLT-W409

a. Declared yield value in accordance with ISO/IEC 19798.

- Replacing the toner cartridge
- Replacing the imaging unit
- Replacing the waste toner container

b. Region A: Albania, Austria, Belgium, Bosnia, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK.

c. Region B: China and India.

d. Image counts based on one color on each page. If you print documents in full color (Cyan, Magenta, Yellow, Black), the life of this item will be reduced by 25%.

! When purchasing new toner cartridges or other supplies, these must be purchased in the same country as the machine you are using. Otherwise, new toner cartridges or other supplies will be incompatible with your machine due to different configurations of toner cartridges and other supplies according to the specific country conditions.

AVAILABLE MAINTENANCE PARTS

To avoid print quality and paper feed problems resulting from worn parts and to maintain your machine in top working condition, the following parts will need to be replaced after printing the specified number of pages or when the life span of each item has expired.

ITEMS	AVERAGE YIELD ^a
Fuser unit	Approx. 50,000 black pages or 12,500 color pages
Transfer roller	Approx. 50,000 black pages or 12,500 color pages
Transfer unit (ITB)	Approx. 50,000 black pages or 12,500 color pages
Pick-up roller	Approx. 50,000 pages

a. Yield is affected by operating system used, computing performance, application software, connecting method, media type, media size and job complexity.

To purchase maintenance parts, contact the source where you purchased the machine.

Replacing maintenance parts can be performed only by an authorized service provider, dealer or the retailer where you purchased the machine. The warranty does not cover the replacement of any maintenance parts after their lifespan.

CHECKING REPLACEABLE'S LIFESPAN

If you experience frequent paper jams or printing problems, check the number of pages the machine has printed. Replace the corresponding parts, if necessary.

1. Press **Menu** on the control panel.
2. Press the left/right arrow until **System Setup** appears and press **OK**.
3. Press the left/right arrow until **Maintenance** appears and press **OK**.
4. Press the left/right arrow until **Supplies Life** appears and press **OK**.
5. Press the left/right arrow until the item you want appears and press **OK**.
 - **Supplies Info**: Prints the supply information page.
 - **Total**: Displays the total number of pages printed in color mode or black and white mode.
 - **ADF Scan**: Displays the number of pages scanned using the ADF.
 - **Platen Scan**: Displays the number of pages scanned using the scanner glass.
 - **Imaging Unit**: Displays the number of pages scanned and printed.
 - **Transfer Belt**: Displays the number of pages scanned and printed.
 - **Fuser**: Displays the number of pages scanned and printed.
 - **Transfer Roller**: Displays the number of pages scanned and printed.
 - **Tray 1 Roller**: Displays the number of pages scanned and printed.
6. Press **Stop/Clear** to return to ready mode.

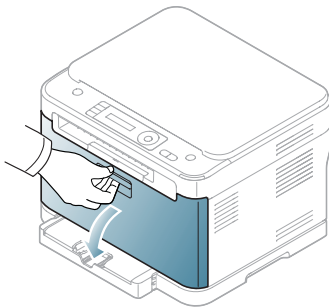
REPLACING THE TONER CARTRIDGE

The machine uses four colors and has a different toner cartridge for each one: yellow (Y), magenta (M), cyan (C) and black (K).

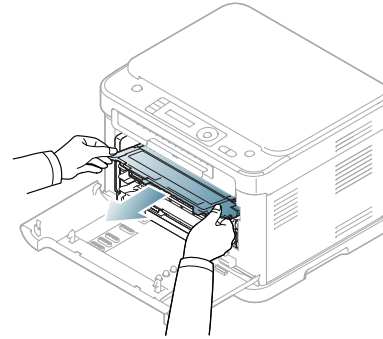
The status LED and the toner-related message on the display indicate which toner cartridge should be replaced.

At this stage, the indicated toner cartridge needs to be replaced. Before replacing the toner cartridge, check the model number for the toner cartridge used in your machine.

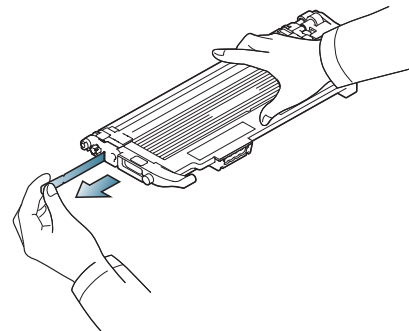
1. Turn the machine off, then wait a few minutes for the machine to cool.
2. Using the handle, completely open the front door.



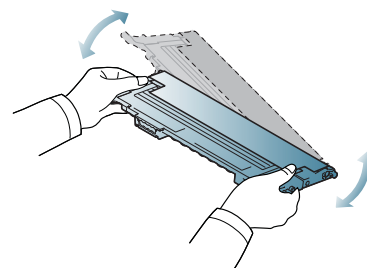
3. Grasp the handles on the toner cartridge and pull to remove the cartridge from the machine.



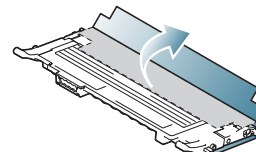
4. Take a new toner cartridge out of its package.
 - ⚠ Don't use sharp objects such as a knife or scissors to open the toner cartridge package. You could damage the surface of the toner cartridge.
5. Pull out the hopper sheet from a new toner cartridge.



6. Holding both handles on the toner cartridge, thoroughly rock it from side to side to evenly distribute the toner.

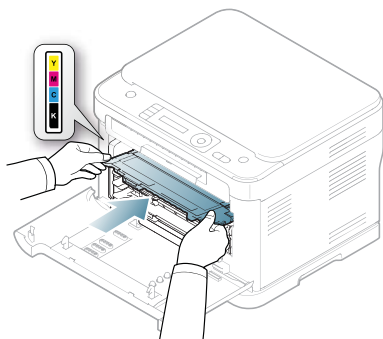


7. Place the toner cartridge on a flat surface as shown below and remove the protecting sheet.



! If toner gets on your clothing, wipe it off with a dry cloth and wash it in cold water. Hot water sets toner into fabric.

8. Make sure that the color of the toner cartridge matches the color slot and then grasp the handles on the toner cartridge. Insert the cartridge until it clicks into place.



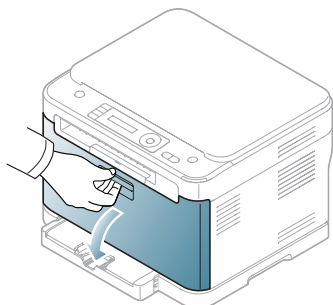
9. Close the front door. Make sure the door is securely latched and then turn the machine on.

! If the front door is not completely closed, the machine will not operate.

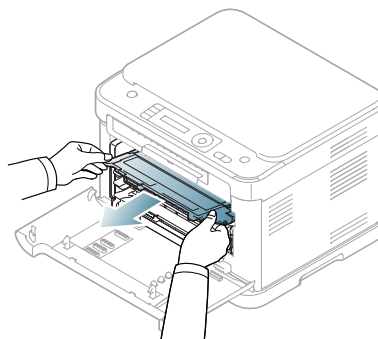
REPLACING THE IMAGING UNIT

When the life span of the imaging unit has expired, the Smart Panel program window appears on the computer, indicating the imaging unit needs to be placed. Otherwise, your machine may stop printing.

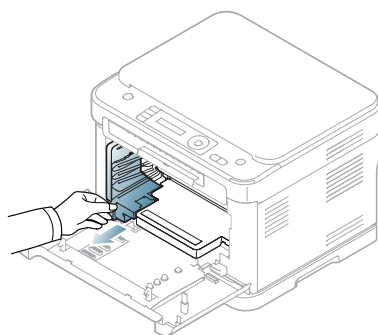
1. If the machine is printing from the computer or warming up, wait until the job ends. Then, turn the machine off.
2. Using the handle, completely open the front door.



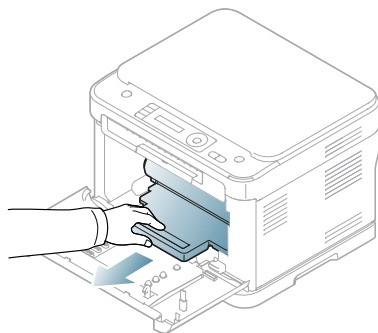
3. Grasp the handles on the front cartridge and pull to remove four cartridges from the machine.



4. Pull the waste toner container out of the machine using its handle.



5. Pull the imaging unit out of the machine using the groove on the front of the imaging unit.

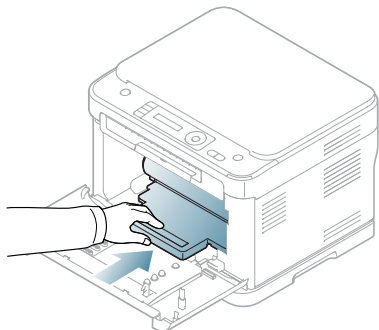


6. Take a new imaging unit out of its package. Remove the protective devices on both sides of the imaging unit and the paper protecting the surface of the imaging unit.

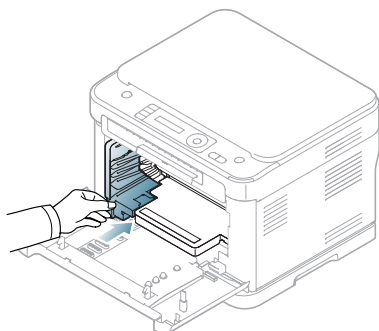


- Don't use sharp objects such as a knife or scissors to open the imaging unit package.
- Do not touch the drum located in the imaging unit. Use the handle on the cartridge to avoid touching this area.
- Be careful not to scratch the surface of imaging unit.
- To prevent damage, do not expose the imaging unit to light for more than a few minutes. Cover it with a piece of paper to protect it if necessary.

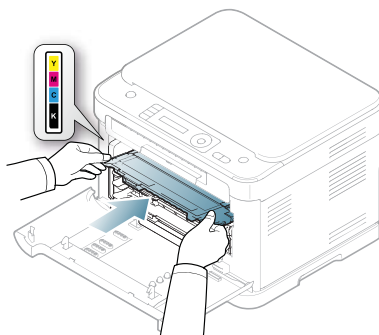
7. Holding the groove on the front of the imaging unit, push imaging unit in to the machine.



8. Insert the waste toner container into position and then push it to make sure that it is firmly seated in place.



9. Slide four toner cartridges back into the machine.



10. Close the front door firmly.



If the front door is not completely closed, the machine will not operate. Please, make sure all toner cartridges are installed properly. If any toner cartridge is installed improperly, the front door do not close.

11. Turn the machine on.

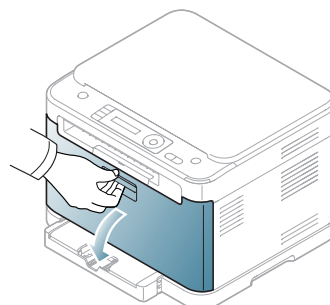


It may takes few minutes for your machine to get ready.

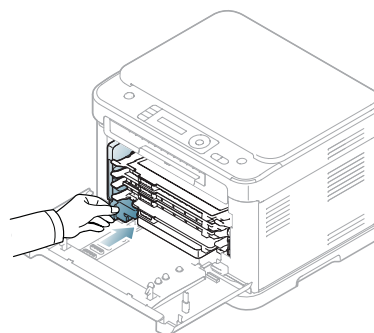
REPLACING THE WASTE TONER CONTAINER

When the life span of the waste toner container has expired, the Smart Panel program window appears on the computer, indicating the waste toner container needs to be replaced. Otherwise your machine stops printing.

1. Turn the machine off, then wait a few minutes for the machine to cool.
2. Using the handle, completely open the front door.

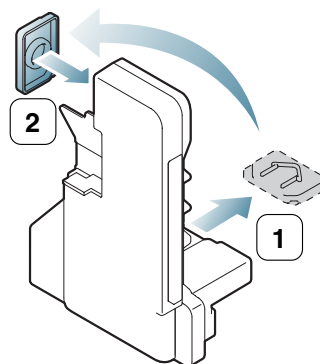


3. Pull the waste toner container out of the machine using its handle.



Make sure that you lay the waste toner container on a flat surface so that the toner does not spill.

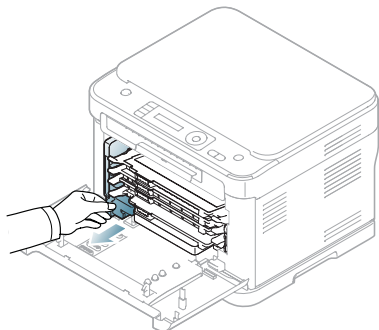
4. Remove the container's cap from the container as shown below and then use it to close the waste toner container opening.



Do not tilt or turn over the container.

5. Take a new waste toner container out of its package.

6. Insert the new container into position and then push it to make sure that it is firmly seated in place.



7. Close the front door firmly.



If the front door is not completely closed, the machine will not operate. Please, make sure all toner cartridges are installed properly. If any toner cartridge is installed improperly, the front door do not close.

8. Turn the machine on.

specifications

This chapter covers the machine's primary specifications.

This chapter includes:

- Hardware specifications
- Environmental specifications
- Electrical specifications
- Print media specifications

 The specification values are listed below: specifications are subject to change without notice. See www.samsung.com/printer for possible changes in information.

HARDWARE SPECIFICATIONS

ITEM		DESCRIPTION
Dimensions	Height	• CLX-3185/CLX-3185N/CLX-3185WK: 308 mm (12.13 inches) • CLX-3185FN/CLX-3185FW: 391.5 mm (15.41 inches)
	Depth	• CLX-3185/CLX-3185N/CLX-3185WK: 407.5 mm (16.04 inches) • CLX-3185FN/CLX-3185FW: 407.5 mm (16.04 inches)
	Width	• CLX-3185/CLX-3185N/CLX-3185WK: 416 mm (16.38 inches) • CLX-3185FN/CLX-3185FW: 416 mm (16.38 inches)
Weight	Machine with consumables	• CLX-3185/CLX-3185N/CLX-3185WK: 14.5 Kg (32.0 lbs) • CLX-3185FN/CLX-3185FW: 15.4 Kg (34.0 lbs)
Package weight	Paper	• CLX-3185/CLX-3185N/CLX-3185WK: 1.85 Kg (4.08 lbs) • CLX-3185FN/CLX-3185FW: 1.90 Kg (4.19 lbs)
	Plastic	• CLX-3185/CLX-3185N/CLX-3185WK: 0.36 Kg (0.79 lbs) • CLX-3185FN/CLX-3185FW: 0.42 Kg (0.93 lbs)

ENVIRONMENTAL SPECIFICATIONS

ITEM		DESCRIPTION
Noise Level ^a	Printing mode	Less than 46 dBA (Color printing) Less than 48 dBA (Mono printing)
	Copying mode	• Mono copying - ADF: 52 dBA - Scan glass: 50 dBA • Color copying - ADF: 50 dBA - Scan glass: 48 dBA
	Standby mode	Background noise Level
	Sleep mode	Background noise Level
Temperature	Operation	10 to 32 °C (50 to 89.6 °F)
	Storage (packed)	-20 to 50 °C (-4 to 122 °F)

ITEM		DESCRIPTION
Humidity	Operation	20 to 80% RH
	Storage (packed)	10 to 90% RH

a. Sound Pressure Level, ISO 7779. Configuration tested: machine basic installation, A4 paper, simplex printing.

ELECTRICAL SPECIFICATIONS

 Power requirements are based on the country/region where the device is sold. Do not convert operating voltages. Doing so might damage the device and void the product warranty.

ITEM		DESCRIPTION
Power rating ^a	110 volt models	AC 110 - 127 V
	220 volt models	AC 220 - 240 V
Power consumption	Average operating mode	Less than 350 W
	Ready mode	Less than 60 W
	Power save mode	- CLX-3185/CLX-3185N: Less than 8 W - CLX-3185WK/CLX-3185FN/CLX-3185FW: Less than 11 W
	Power off mode	Less than 0.45 W

a. See the rating label on the machine for the correct voltage (V), frequency (hertz) and type of current (A) for your machine.

PRINT MEDIA SPECIFICATIONS

TYPE	SIZE	DIMENSIONS	WEIGHT ^a	CAPACITY ^b
Plain paper	Letter	216 x 279 mm (8.50 x 11.00 inches)	60 to 105 g/m ² (16 to 28 lbs bond)	130 sheets of 80 g/m ² (20 lbs bond) paper for the tray
	Legal	216 x 356 mm (8.50 x 14.00 inches)		
	US Folio	216 x 330 mm (8.50 x 13.00 inches)		
	A4	210 x 297 mm (8.27 x 11.69 inches)		
	Oficio	216 x 343 mm (8.50 x 13.50 inches)		
	JIS B5	182 x 257 mm (7.17 x 10.12 inches)		
	ISO B5	176 x 250 mm (6.93 x 9.84 inches)		
	Executive	184 x 267 mm (7.25 x 10.50 inches)		
	Statement	140 x 216 mm (5.5 x 8.50 inches)		
	A5	148 x 210 mm (5.83 x 8.26 inches)		
	A6	105 x 148 mm (4.13 x 5.82 inches)		
Envelope	Envelope Monarch	98 x 191 mm (3.87 x 7.50 inches)	75 to 90 g/m ² (20 to 24 lbs bond)	5 sheets for manual feeding in the tray
	Envelope 6 3/4	92 x 165 mm (3.62 x 6.50 inches)		
	Envelope No. 10	105 x 241 mm (4.12 x 9.50 inches)		
	Envelope No. 9	98 x 225 mm (3.87 x 8.87 inches)		
	Envelope DL	110 x 220 mm (4.33 x 8.66 inches)		
	Envelope C5	162 x 229 mm (6.38 x 9.02 inches)		
	Envelope C6	114 x 162 mm (4.49 x 6.38 inches)		
Thick paper	Refer to the Plain paper section	Refer to the Plain paper section.	90 to 105 g/m ² (24 to 28 lbs bond)	5 sheets for manual feeding in the tray
Thin paper	Refer to the Plain paper section	Refer to the Plain paper section.	60 to 70 g/m ² (16 to 19 lbs bond)	
Labels ^c	Letter, A4	Refer to the Plain paper section.	120 to 150 g/m ² (37 to 40 lbs bond)	
Card stock	Post card	101.60 x 152.40 mm (4 x 6 inches)	105 to 220 g/m ² (28 to 43 lbs bond)	
Transparency ^{de}	Letter, A4	Refer to the Plain paper section.	-	1 sheet for manual feeding in the tray
Glossy photo ^f	Letter, A4	Refer to the Plain paper section.	111 to 220 g/m ² (30 to 58 lbs bond)	
Matte photo	Letter, A4, Postcard 4 x 6	Refer to the Pain paper section.	111 to 220 g/m ² (30 to 58 lbs bond)	
Minimum size (custom)		76 x 160 mm (3.00 x 6.30 inches)	60 to 163 g/m ² (16 to 43 lbs bond)	
Maximum size (custom)		216 x 356 mm (8.50 x 14.02 inches)		

a. If media weight is over 120 g/m² (32 lbs), load a paper into the tray one by one.

b. Maximum capacity may differ depending on media weight, thickness, and environmental conditions.

c. The smoothness of the labels used in this machine is 100 to 250 (sheffield). This means the numeric level of smoothness.

d. Recommended media: Transparency for a color laser printers by **Xerox 3R91331** (A4) or **Xerox 3R2780** (Letter).

e. Recommended media: 0.104 to 0.124 mm (0.004094 to 0.004882 inches) thickness of transparency paper.

f. Recommended media: Glossy paper (Letter) for this machine by **HP Brochure Paper** (Product: Q6611A). Glossy paper (A4) for this machine by **HP Superior Paper 160 glossy** (Product: Q6616A).

contact samsung worldwide

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glossary

 The following glossary helps you get familiar with the product by understanding the terminologies commonly used with printing as well as mentioned in this user's guide.

802.11

802.11 is a set of standards for wireless local area network (WLAN) communication, developed by the IEEE LAN/MAN Standards Committee (IEEE 802).

802.11b/g/n

802.11b/g/n can share same hardware and use the 2.4 GHz band. 802.11b supports bandwidth up to 11 Mbps, 802.11n supports bandwidth up to 150 Mbps. 802.11b/g/n devices may occasionally suffer interference from microwave ovens, cordless telephones, and Bluetooth devices.

Access point

Access Point or Wireless Access Point (AP or WAP) is a device that connects wireless communication devices together on wireless local area networks (WLAN), and acts as a central transmitter and receiver of WLAN radio signals.

ADF

An Automatic Document Feeder (ADF) is a scanning unit that will automatically feed an original sheet of paper so that the machine can scan some amount of the paper at once.

AppleTalk

AppleTalk is a proprietary suite of protocols developed by Apple, Inc for computer networking. It was included in the original Macintosh (1984) and is now deprecated by Apple in favor of TCP/IP networking.

BIT Depth

A computer graphics term describing the number of bits used to represent the color of a single pixel in a bitmapped image. Higher color depth gives a broader range of distinct colors. As the number of bits increases, the number of possible colors becomes impractically large for a color map. 1-bit color is commonly called as monochrome or black and white.

BMP

A bitmapped graphics format used internally by the Microsoft Windows graphics subsystem (GDI), and used commonly as a simple graphics file format on that platform.

BOOTP

Bootstrap Protocol. A network protocol used by a network client to obtain its IP address automatically. This is usually done in the bootstrap process of computers or operating systems running on them. The BOOTP servers assign the IP address from a pool of addresses to each client. BOOTP enables 'diskless workstation' computers to obtain an IP address prior to loading any advanced operating system.

CCD

Charge Coupled Device (CCD) is a hardware which enables the scan job. CCD Locking mechanism is also used to hold the CCD module to prevent any damage when you move the machine.

Collation

Collation is a process of printing a multiple-copy job in sets. When collation is selected, the device prints an entire set before printing additional copies.

Control Panel

A control panel is a flat, typically vertical, area where control or monitoring instruments are displayed. They are typically found in front of the machine.

Coverage

It is the printing term used for a toner usage measurement on printing. For example, 5% coverage means that an A4 sided paper has about 5% image or text on it. So, if the paper or original has complicated images or lots of text on it, the coverage will be higher and at the same time, a toner usage will be as much as the coverage.

CSV

Comma Separated Values (CSV). A type of file format, CSV is used to exchange data between disparate applications. The file format, as it is used in Microsoft Excel, has become a de facto standard throughout the industry, even among non-Microsoft platforms.

DADF

A Duplex Automatic Document Feeder (DADF) is a scanning unit that will automatically feed and turn over an original sheet of paper so that the machine can scan on both sides of the paper.

Default

The value or setting that is in effect when taking a printer out of its box state, reset, or initialized.

DHCP

A Dynamic Host Configuration Protocol (DHCP) is a client-server networking protocol. A DHCP server provides configuration parameters specific to the DHCP client host requesting, generally, information required by the client host to participate on an IP network. DHCP also provides a mechanism for allocation of IP addresses to client hosts.

DIMM

Dual Inline Memory Module (DIMM), a small circuit board that holds memory. DIMM stores all the data within the machine like printing data, received fax data.

DLNA

The Digital Living Network Alliance (DLNA) is a standard that allows devices on a home network to share information with each other across the network.

DNS

The Domain Name Server (DNS) is a system that stores information associated with domain names in a distributed database on networks, such as the Internet.

Dot Matrix Printer

A dot matrix printer refers to a type of computer printer with a print head that runs back and forth on the page and prints by impact, striking an ink-soaked cloth ribbon against the paper, much like a typewriter.

DPI

Dots Per Inch (DPI) is a measurement of resolution that is used for scanning and printing. Generally, higher DPI results in a higher resolution, more visible detail in the image, and a larger file size.

DRPD

Distinctive Ring Pattern Detection. Distinctive Ring is a telephone company service which enables a user to use a single telephone line to answer several different telephone numbers.

Duplex

A mechanism that will automatically turn over a sheet of paper so that the machine can print (or scan) on both sides of the paper. A printer equipped with a Duplex Unit can print on both sides of paper during one print cycle.

Duty Cycle

Duty cycle is the page quantity which does not affect printer performance for a month. Generally the printer has the lifespan limitation such as pages per year. The lifespan means the average capacity of print-outs, usually within the warranty period. For example, if the duty cycle is 48,000 pages per month assuming 20 working days, a printer limits 2,400 pages a day.

ECM

Error Correction Mode (ECM) is an optional transmission mode built into Class 1 fax machines or fax modems. It automatically detects and corrects errors in the fax transmission process that are sometimes caused by telephone line noise.

Emulation

Emulation is a technique of one machine obtaining the same results as another.

An emulator duplicates the functions of one system with a different system, so that the second system behaves like the first system. Emulation focuses on exact reproduction of external behavior, which is in contrast to simulation, which concerns an abstract model of the system being simulated, often considering its internal state.

Ethernet

Ethernet is a frame-based computer networking technology for local area networks (LANs). It defines wiring and signaling for the physical layer, and frame formats and protocols for the media access control (MAC)/data link layer of the OSI model. Ethernet is mostly standardized as IEEE 802.3. It has become the most widespread LAN technology in use during the 1990s to the present.

EtherTalk

A suite of protocols developed by Apple Computer for computer networking. It was included in the original Macintosh (1984) and is now deprecated by Apple in favor of TCP/IP networking.

FDI

Foreign Device Interface (FDI) is a card installed inside the machine to allow a third party device such as a coin operated device or a card reader. Those devices allow the pay-for-print service on your machine.

FTP

A File Transfer Protocol (FTP) is a commonly used protocol for exchanging files over any network that supports the TCP/IP protocol (such as the Internet or an intranet).

Fuser Unit

The part of a laser printer that fuses the toner onto the print media. It consists of a heat roller and a pressure roller. After toner is transferred onto the paper, the fuser unit applies heat and pressure to ensure that the toner stays on the paper permanently, which is why paper is warm when it comes out of a laser printer.

Gateway

A connection between computer networks, or between a computer network and a telephone line. It is very popular, as it is a computer or a network that allows access to another computer or network.

Grayscale

A shades of gray that represent light and dark portions of an image when color images are converted to grayscale; colors are represented by various shades of gray.

Halftone

An image type that simulates grayscale by varying the number of dots. Highly colored areas consist of a large number of dots, while lighter areas consist of a smaller number of dots.

HDD

Hard Disk Drive (HDD), commonly referred to as a hard drive or hard disk, is a non-volatile storage device which stores digitally-encoded data on rapidly rotating platters with magnetic surfaces.

IEEE

The Institute of Electrical and Electronics Engineers (IEEE) is an international non-profit, professional organization for the advancement of technology related to electricity.

IEEE 1284

The 1284 parallel port standard was developed by the Institute of Electrical and Electronics Engineers (IEEE). The term "1284-B" refers to a specific connector type on the end of the parallel cable that attaches to the peripheral (for example, a printer).

Intranet

A private network that uses Internet Protocols, network connectivity, and possibly the public telecommunication system to securely share part of an organization's information or operations with its employees. Sometimes the term refers only to the most visible service, the internal web-site.

IP address

An Internet Protocol (IP) address is a unique number that devices use in order to identify and communicate with each other on a network utilizing the Internet Protocol standard.

IPM

The Images Per Minute (IPM) is a way of measuring the speed of a printer. An IPM rate indicates the number of single-sided sheets a printer can complete within one minute.

IPP

The Internet Printing Protocol (IPP) defines a standard protocol for printing as well as managing print jobs, media size, resolution, and so forth. IPP can be used locally or over the Internet to hundreds of printers, and also supports access control, authentication, and encryption, making it a much more capable and secure printing solution than older ones.

IPX/SPX

IPX/SPX stands for Internet Packet Exchange/Sequenced Packet Exchange. It is a networking protocol used by the Novell NetWare operating systems. IPX and SPX both provide connection services similar to TCP/IP, with the IPX protocol having similarities to IP, and SPX having similarities to TCP. IPX/SPX was primarily designed for local area networks (LANs), and is a very efficient protocol for this purpose (typically its performance exceeds that of TCP/IP on a LAN).

ISO

The International Organization for Standardization (ISO) is an international standard-setting body composed of representatives from national standards bodies. It produces world-wide industrial and commercial standards.

ITU-T

The International Telecommunication Union is an international organization established to standardize and regulate international radio and telecommunications. Its main tasks include standardization, allocation of the radio spectrum, and organizing interconnection arrangements between different countries to allow international phone calls. A -T out of ITU-T indicates telecommunication.

ITU-T No. 1 chart

Standardized test chart published by ITU-T for document facsimile transmissions.

JBIG

Joint Bi-level Image Experts Group (JBIG) is an image compression standard with no loss of accuracy or quality, which was designed for compression of binary images, particularly for faxes, but can also be used on other images.

JPEG

Joint Photographic Experts Group (JPEG) is a most commonly used standard method of lossy compression for photographic images. It is the format used for storing and transmitting photographs on the World Wide Web.

LDAP

The Lightweight Directory Access Protocol (LDAP) is a networking protocol for querying and modifying directory services running over TCP/IP.

LED

A Light-Emitting Diode (LED) is a semiconductor device that indicates the status of a machine.

MAC address

Media Access Control (MAC) address is a unique identifier associated with a network adapter. MAC address is a unique 48-bit identifier usually written as 12 hexadecimal characters grouped in pairs (e. g., 00-00-0c-34-11-4e). This address is usually hard-coded into a Network Interface Card (NIC) by its manufacturer, and used as an aid for routers trying to locate machines on large networks.

MFP

Multi Function Peripheral (MFP) is an office machine that includes the following functionality in one physical body, so as to have a printer, a copier, a fax, a scanner and etc.

MH

Modified Huffman (MH) is a compression method for decreasing the amount of data that needs to be transmitted between the fax machines to transfer the image recommended by ITU-T T.4. MH is a code-book-based run-length encoding scheme optimized to efficiently compress white space. As most faxes consist mostly of white space, this minimizes the transmission time of most faxes.

MMR

Modified Modified READ (MMR) is a compression method recommended by ITU-T T.6.

Modem

A device that modulates a carrier signal to encode digital information, and also demodulates such a carrier signal to decode transmitted information.

MR

Modified Read (MR) is a compression method recommended by ITU-T T.4. MR encodes the first scanned line using MH. The next line is compared to the first, the differences determined, and then the differences are encoded and transmitted.

NetWare

A network operating system developed by Novell, Inc. It initially used cooperative multitasking to run various services on a PC, and the network protocols were based on the archetypal Xerox XNS stack. Today NetWare supports TCP/IP as well as IPX/SPX.

OPC

Organic Photo Conductor (OPC) is a mechanism that makes a virtual image for print using a laser beam emitted from a laser printer, and it is usually green or rust colored and has a cylinder shape.

An imaging unit containing a drum slowly wears the drum surface by its usage in the printer, and it should be replaced appropriately since it gets worn from contact with the cartridge development brush, cleaning mechanism, and paper.

Originals

The first example of something, such as a document, photograph or text, etc, which is copied, reproduced or translated to produce others, but which is not itself copied or derived from something else.

OSI

Open Systems Interconnection (OSI) is a model developed by the International Organization for Standardization (ISO) for communications. OSI offers a standard, modular approach to network design that divides the required set of complex functions into manageable, self-contained, functional layers. The layers are, from top to bottom, Application, Presentation, Session, Transport, Network, Data Link and Physical.

PABX

A private automatic branch exchange (PABX) is an automatic telephone switching system within a private enterprise.

PCL

Printer Command Language (PCL) is a Page Description Language (PDL) developed by HP as a printer protocol and has become an industry standard. Originally developed for early inkjet printers, PCL has been released in varying levels for thermal, dot matrix printer, and laser printers.

PDF

Portable Document Format (PDF) is a proprietary file format developed by Adobe Systems for representing two dimensional documents in a device independent and resolution independent format.

PostScript

PostScript (PS) is a page description language and programming language used primarily in the electronic and desktop publishing areas. - that is run in an interpreter to generate an image.

Printer Driver

A program used to send commands and transfer data from the computer to the printer.

Print Media

The media like paper, envelopes, labels, and transparencies which can be used in a printer, a scanner, a fax or, a copier.

PPM

Pages Per Minute (PPM) is a method of measurement for determining how fast a printer works, meaning the number of pages a printer can produce in one minute.

PRN file

An interface for a device driver, this allows software to interact with the device driver using standard input/output system calls, which simplifies many tasks.

Protocol

A convention or standard that controls or enables the connection, communication, and data transfer between two computing endpoints.

PS

See PostScript.

PSTN

The Public-Switched Telephone Network (PSTN) is the network of the world's public circuit-switched telephone networks which, on industrial premises, is usually routed through the switchboard.

RADIUS

Remote Authentication Dial In User Service (RADIUS) is a protocol for remote user authentication and accounting. RADIUS enables centralized management of authentication data such as usernames and passwords using an AAA (authentication, authorization, and accounting) concept to manage network access.

Resolution

The sharpness of an image, measured in Dots Per Inch (DPI). The higher the dpi, the greater the resolution.

SMB

Server Message Block (SMB) is a network protocol mainly applied to share files, printers, serial ports, and miscellaneous communications between nodes on a network. It also provides an authenticated Inter-process communication mechanism.

SMTP

Simple Mail Transfer Protocol (SMTP) is the standard for e-mail transmissions across the Internet. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified, and then the message text is transferred. It is a client-server protocol, where the client transmits an email message to the server.

SSID

Service Set Identifier (SSID) is a name of a wireless local area network (WLAN). All wireless devices in a WLAN use the same SSID in order to communicate with each other. The SSIDs are case-sensitive and have a maximum length of 32 characters.

Subnet Mask

The subnet mask is used in conjunction with the network address to determine which part of the address is the network address and which part is the host address.

TCP/IP

The Transmission Control Protocol (TCP) and the Internet Protocol (IP); the set of communications protocols that implement the protocol stack on which the Internet and most commercial networks run.

TCR

Transmission Confirmation Report (TCR) provides details of each transmission such as job status, transmission result and number of pages sent. This report can be set to print after each job or only after failed transmissions.

TIFF

Tagged Image File Format (TIFF) is a variable-resolution bitmapped image format. TIFF describes image data that typically come from scanners. TIFF images make use of tags, keywords defining the characteristics of the image that is included in the file. This flexible and platform-independent format can be used for pictures that have been made by various image processing applications.

Toner Cartridge

A kind of bottle or container used in a machine like a printer which contains toner. Toner is a powder used in laser printers and photocopiers, which forms the text and images on the printed paper. Toner can be fused by a combination of heat/pressure from the fuser, causing it to bind to the fibers in the paper.

TWAIN

An industry standard for scanners and software. By using a TWAIN-compliant scanner with a TWAIN-compliant program, a scan can be initiated from within the program. It is an image capture API for Microsoft Windows and Apple Macintosh operating systems.

UNC Path

Uniform Naming Convention (UNC) is a standard way to access network shares in Windows NT and other Microsoft products. The format of a UNC path is: \\<servername>\<sharename>\<Additional directory>

URL

Uniform Resource Locator (URL) is the global address of documents and resources on the Internet. The first part of the address indicates what protocol to use, the second part specifies the IP address or the domain name where the resource is located.

USB

Universal Serial Bus (USB) is a standard that was developed by the USB Implementers Forum, Inc., to connect computers and peripherals. Unlike the parallel port, USB is designed to concurrently connect a single computer USB port to multiple peripherals.

Watermark

A watermark is a recognizable image or pattern in paper that appears lighter when viewed by transmitted light. Watermarks were first introduced in Bologna, Italy in 1282; they have been used by papermakers to identify their product, and also on postage stamps, currency, and other government documents to discourage counterfeiting.

WEP

Wired Equivalent Privacy (WEP) is a security protocol specified in IEEE 802.11 to provide the same level of security as that of a wired LAN. WEP provides security by encrypting data over radio so that it is protected as it is transmitted from one end point to another.

WIA

Windows Imaging Architecture (WIA) is an imaging architecture that is originally introduced in Windows Me and Windows XP. A scan can be initiated from within these operating systems by using a WIA-compliant scanner.

WPA

Wi-Fi Protected Access (WPA) is a class of systems to secure wireless (Wi-Fi) computer networks, which was created to improve upon the security features of WEP.

WPA-PSK

WPA-PSK (WPA Pre-Shared Key) is special mode of WPA for small business or home users. A shared key, or password, is configured in the wireless access point (WAP) and any wireless laptop or desktop devices. WPA-PSK generates a unique key for each session between a wireless client and the associated WAP for more advanced security.

WPS

The Wi-Fi Protected Setup (WPS) is a standard for establishing a wireless home network. If your wireless access point supports WPS, you can configure the wireless network connection easily without a computer.

XPS

XML Paper Specification (XPS) is a specification for a Page Description Language (PDL) and a new document format, which has benefits for portable document and electronic document, developed by Microsoft. It is an XML-based specification, based on a new print path and a vector-based device-independent document format.

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