

CLX-318x Series

Multi-Functional Printer User's Guide

imagine the possibilities

Thank you for purchasing a Samsung product.



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REV. 0.99

safety information










These warnings and precautions are included to prevent injury to you and others, and to prevent any potential damage to your machine. Be sure to read and understand all of these instructions before using the machine.

Use common sense for operating any electrical appliance and whenever using your machine. Also, follow all warnings and instructions marked on the machine and in the accompanying literature. After reading this section, keep it in a safe place for future reference.

IMPORTANT SAFETY SYMBOLS

This section explains the meanings of all icons and signs in the user's guide. These safety symbols are in order, according to the degree of danger.

Explanation of all icons and signs used in the user's guide

	Warning	Hazards or unsafe practices that may result in severe personal injury or death.
	Caution	Hazards or unsafe practices that may result in minor personal injury or property damage.
		Do not attempt.
		Do not disassemble.
		Do not touch.
		Unplug the power cord from the wall socket.
		Make sure the machine is grounded to prevent electric shock.
		Call the service center for help.
		Follow directions explicitly.

OPERATING ENVIRONMENT

Warning



Do not use if the power cord is damaged or if the electrical outlet is not grounded.
► This could result in electric shock or fire.



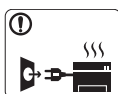
Do not bend, or place heavy objects on the power cord.
► Stepping on or allowing the power cord to be crushed by a heavy object could result in electric shock or fire.



Do not place anything on top of the machine (water, small metal or heavy objects, candles, lit cigarettes, etc.).
► This could result in electric shock or fire.



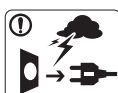
Do not remove the plug by pulling on the cord; do not handle the plug with wet hands.
► This could result in electric shock or fire.



If the machine gets overheated, it releases smoke, makes strange noises, or generates an odd odor, immediately turn off the power switch and unplug the machine.

► This could result in electric shock or fire.

Caution



During an electrical storm or for a period of non-operation, remove the power plug from the electrical outlet.

► This could result in electric shock or fire.



Be careful, the paper output area is hot.
► Burns could occur.



If the machine has been dropped, or if the cabinet appears damaged, unplug the machine from all interface connections and request assistance from qualified service personnel.
► Otherwise, this could result in electric shock or fire.



If the machine exhibits a sudden and distinct change in performance, unplug the machine from all interface connections and request assistance from qualified service personnel.
► Otherwise, this could result in electric shock or fire.



If the plug does not easily enter the electrical outlet, do not attempt to force it in.

► Call an electrician to change the electrical outlet, or this could result in electric shock.



Do not allow pets to chew on the AC power, telephone or PC interface cords.

► This could result in electric shock or fire and/or injury to your pet.



If the machine does not operate properly after these instructions have been followed, unplug the machine from all interface connections and request assistance from qualified service personnel.

► Otherwise, this could result in electric shock or fire.

OPERATING METHOD

Caution



Do not forcefully pull the paper out during printing.
► It can cause damage to the machine.



Be careful not to put your hand between the machine and paper tray.
► You may get injured.



Do not block or push objects into the ventilation opening.
► This could result in elevated component temperatures which can cause damage or fire.



Be care when replacing paper or removing jammed paper.
► New paper has sharp edges and can cause painful cuts.



When printing large quantities, the bottom part of the paper output area may get hot. Do not allow children to touch.

► Burns can occur.



When removing jammed paper, do not use tweezers or sharp metal objects.

► It can damage the machine.



Do not allow too many papers to stack up in the paper output tray.

► It can damage the machine.



This machine's power interception device is the power cord.
► To switch off the power supply, remove the power cord from the electrical outlet.

INSTALLATION / MOVING

Warning



Do not place the machine in an area with dust, humidity or water leaks.




► This could result in electric shock or fire.





Caution



When moving the machine, turn the power off and disconnect all cords; then lift the machine with at least two people.

► The machine could fall, causing injury or machine damage.

-  Do not place the machine on an unstable surface.
 - The machine could fall, causing injury or machine damage.
-  The machine should be connected to the power level which is specified on the label.
 - If you are unsure and want to check the power level you are using, contact the electrical utility company.
-  Use only No.26 AWG^a or larger, telephone line cord, if necessary.
 - Otherwise, it can cause damage to the machine.

-  Do not put a cover over the machine or place it in an airtight location, such as a closet.
 - If the machine is not well-ventilated, this could result in fire.
-  Make sure you plug the power cord into a grounded electrical outlet.
 - Otherwise, this could result in electric shock or fire.
-  Do not overload wall outlets and extension cords.
 - This can diminish performance, and could result in electric shock or fire.
-  Use the power cord supplied with your machine for safe operation. If you are using a cord which is longer than 2 meters (6 feet) with a 140V machine, then the gauge should be 16 AWG or larger.
 - Otherwise, it can cause damage to the machine, and could result in electric shock or fire.

a. AWG: American Wire Gauge

MAINTENANCE / CHECKING

Caution



Unplug this product from the wall outlet before cleaning the inside of the machine. **Do not** clean the machine with benzene, paint thinner or alcohol; do not spray water directly into the machine.

► This could result in electric shock or fire.



Keep cleaning supplies away from children.

► Children could get hurt.



When you are working inside the machine replacing supplies or cleaning the inside, do not operate the machine.

► You could get injured.



Do not disassemble, repair or rebuild the machine by yourself.

► It can damage the machine. Call a certified technician when the machine needs repair.

- ⓘ Keep the power cable and the contact surface of the plug clean from dust or water.
 - ▶ Otherwise, this could result in electric shock or fire.
- ⊗ Do not remove any covers or guards that are fastened with screws.
 - ▶ The machine should only be repaired by a Samsung service technician.

- ⓘ To clean and operate the machine, strictly follow the user's guide provided with the machine.
 - ▶ Otherwise, you could damage the machine.

SUPPLY USAGE

Caution



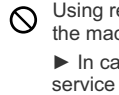
- Do not disassemble the toner cartridge.
 - ▶ Toner dust can be dangerous if inhaled or ingested.



- Do not burn any of the supplies such as toner cartridge or fuser unit.
 - ▶ This could cause an explosion or uncontrollable fire.



- When storing supplies such as toner cartridges, keep them away from children.
 - ▶ Toner dust can be dangerous if inhaled or ingested.



- Using recycled supplies, such as toner, can cause damage to the machine.
 - ▶ In case of damage due to the use of recycled supplies, a service fee will be charged.

- ⓘ When changing the toner cartridge or removing jammed paper, be careful not to let toner dust touch your body or clothes.
 - ▶ Toner dust can be dangerous if inhaled or ingested.

- ⓘ When toner gets on your clothing, do not use hot water to wash it.
 - ▶ Hot water sets toner into fabric. Use cold water.

regulatory information

This machine is designed for a normal work environment and certified with several regulatory statements.

LASER SAFETY STATEMENT

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I(1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1:1993 + A1:1997 + A2:2001.

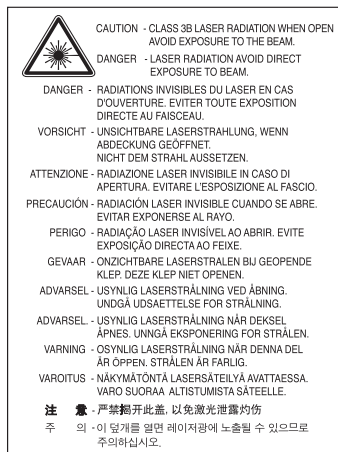
Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance or prescribed service condition.

- **Wavelength:** 800 nm
- **Beam divergence**
 - **Paraller:** 12 degrees
 - **Perpendicular:** 30 degrees
- **Maximum power or energy output:** 5 mW

WARNING

Never operate or service the printer with the protective cover removed from Laser/Scanner assembly. The reflected beam, although invisible, can damage your eyes.

When using this product, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to persons:



OZONE SAFETY



During normal operation, this machine produces ozone. The ozone produced does not present a hazard to the operator. However, it is advisable that the machine be operated in a well ventilated area.

If you need additional information about ozone, contact your local Samsung dealer.

MERCURY SAFETY



Contains Mercury, Dispose According to Local, State or Federal Laws.(U.S.A. only)

POWER SAVER



This printer contains advanced energy conservation technology that reduces power consumption when it is not in active use. When the printer does not receive data for an extended period of time, power consumption is automatically lowered. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks. For more information on the ENERGY STAR program see <http://www.energystar.gov>

RECYCLING



Recycle or dispose of the packaging material for this product in an environmentally responsible manner.

CHINA ONLY

回收和再循环

为了保护环境，我公司已经为废弃的产品建立了回收和再循环系统。

我们会为您无偿提供回收同类废旧产品的服务。

当您要废弃您正在使用的产品时，请您及时与工厂取得联系，我们会及时为您提供服务。

CORRECT DISPOSAL OF THIS PRODUCT (WASTE ELECTRICAL & ELECTRONIC EQUIPMENT)



(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

CORRECT DISPOSAL OF BATTERIES IN THIS PRODUCT

(Applicable in the European Union and other European countries with separate battery return systems.)



This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

TAIWAN ONLY

警告

本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

RADIO FREQUENCY EMISSIONS

FCC Information to the User

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

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



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

Canadian Radio Interference Regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry and Science Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", ICES-003 édictée par l'Industrie et Sciences Canada.

UNITED STATES OF AMERICA

Federal Communications Commission (FCC)

Intentional emitter per FCC Part 15

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your printer system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the United States of America if an FCC ID number is on the system label.

The FCC has set a general guideline of 20 cm (8 inches) separation between the device and the body, for use of a wireless device near the body (this does not include extremities). This device should be used more than 20 cm (8 inches) from the body when wireless devices are on. The power output of the wireless device (or devices), which may be embedded in your printer, is well below the RF exposure limits as set by the FCC.

This transmitter must not be collocated or operation in conjunction with any other antenna or transmitter.

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



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

FCC Statement for Wireless LAN use:



While installing and operating this transmitter and antenna combination the radio frequency exposure limit of 1m W/cm² may be exceeded at distances close to the antenna installed. Therefore, the user must maintain a minimum distance of 20cm from the antenna at all times. This device cannot be collocated with another transmitter and transmitting antenna.

RUSSIA ONLY



Минсвязи России



GERMANY ONLY

Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäß BildscharbV vorgesehen.

TURKISH ONLY

EEE Yönetmeliğine Uygundur.

This EEE is compliant with RoHS.

FAX BRANDING

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone facsimile machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission the following information:

1. the date and time of transmission
2. identification of either business, business entity or individual sending the message; and
3. telephone number of either the sending machine, business, business entity or individual.


The Telephone Company may make changes in its communications facilities, equipment operations or procedures where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68. If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service

RINGER EQUIVALENCE NUMBER

The Ringer Equivalence Number and FCC Registration Number for this machine may be found on the label located on the bottom or rear of the machine. In some instances you may need to provide these numbers to the telephone company.

The Ringer Equivalence Number (REN) is a measure of the electrical load placed on the telephone line, and is useful for determining whether you have "overloaded" the line. Installing several types of equipment on the same telephone line may result in problems making and receiving telephone calls, especially ringing when your line is called. The sum of all Ringer Equivalence Numbers of the equipment on your telephone line should be less than five in order to assure proper service from the telephone company. In some cases, a sum of five may not be usable on your line. If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network.

The equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the rear of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

 FCC Regulations state that changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment. In the event that terminal equipment causes harm to the telephone network, the telephone company should notify the customer that service may be stopped. However, where prior notice is impractical, the company may temporarily cease service, providing that they:

- a) promptly notify the customer.
- b) give the customer an opportunity to correct the equipment problem.
- c) inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

You should also know that:

- Your machine is not designed to be connected to a digital PBX system.
- If you intend to use a computer modem or fax modem on the same phone line as your machine, you may experience transmission and reception problems with all the equipment. It is recommended that no other equipment, except for a regular telephone, share the line with your machine.
- If your area experiences a high incidence of lightning or power surges, we recommend that you install surge protectors for both the power and the telephone lines. Surge protectors can be purchased from your dealer or telephone and electronic specialty stores.
- When programming emergency numbers and/or making test calls to emergency numbers, use a non-emergency number to advise the emergency service dispatcher of your intentions. The dispatcher will give you further instructions on how to actually test the emergency number.
- This machine may not be used on coin service or party lines.
- This machine provides magnetic coupling to hearing aids.

You may safely connect this equipment to the telephone network by means of a standard modular jack, USOC RJ-11C.

REPLACING THE FITTED PLUG (FOR UK ONLY)

Important

The mains lead for this machine is fitted with a standard (BS 1363) 13 amp plug and has a 13 amp fuse. When you change or examine the fuse, you must re-fit the correct 13 amp fuse. You then need to replace the fuse cover. If you have lost the fuse cover, do not use the plug until you have another fuse cover.

Contact the people from you purchased the machine.

The 13 amp plug is the most widely used type in the UK and should be suitable. However, some buildings (mainly old ones) do not have normal 13 amp plug sockets. You need to buy a suitable plug adaptor. Do not remove the moulded plug.



If you cut off the moulded plug, get rid of it straight away.

You cannot rewire the plug and you may receive an electric shock if you plug it into a socket.

Important warning:



You must earth this machine.

The wires in the mains lead have the following color code:

- **Green and Yellow:** Earth
- **Blue:** Neutral
- **Brown:** Live

If the wires in the mains lead do not match the colors marked in your plug, do the following:

You must connect the green and yellow wire to the pin marked by the letter "E" or by the safety 'Earth symbol' or colored green and yellow or green.

You must connect the blue wire to the pin which is marked with the letter "N" or colored black.

You must connect the brown wire to the pin which is marked with the letter "L" or colored red.

You must have a 13 amp fuse in the plug, adaptor, or at the distribution board.

DECLARATION OF CONFORMITY (EUROPEAN COUNTRIES)

Approvals and Certifications



The CE marking applied to this product symbolizes Samsung Electronics Co., Ltd. Declaration of Conformity with the following applicable 93/68/EEC Directives of the European Union as of the dates indicated:

Hereby, Samsung Electronics declare that this product is in compliance with the essential requirements and other relevant provisions of:

CLX-3185 Series: R&TTE Directive (1999/5/EC)

The declaration of conformity may be consulted at www.samsung.com/printer, go to Support > Download center and enter your printer (MFP) name to browse the EuDoC.

January 1, 1995: Council Directive 2006/95/EC Approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: Council Directive 2004/108/EC (92/31/EEC), approximation of the laws of the Member States related to electromagnetic compatibility.

March 9, 1999: Council Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. A full declaration, defining the relevant Directives and referenced standards can be obtained from your Samsung Electronics Co., Ltd. representative.

EC Certification

Certification to 1999/5/EC Radio Equipment & Telecommunications Terminal Equipment Directive (FAX)

This Samsung product has been self-certified by Samsung for pan-European single terminal connection to the analogue public switched telephone network (PSTN) in accordance with Directive 1999/5/EC. The product has been designed to work with the national PSTNs and compatible PBXs of the European countries:

In the event of problems, you should contact the Euro QA Lab of Samsung Electronics Co., Ltd. in the first instance.

The product has been tested against TBR21. To assist in the use and application of terminal equipment which complies with this standard, the European Telecommunication Standards Institute (ETSI) has issued an advisory document (EG 201 121) which contains notes and additional requirements to ensure network compatibility of TBR21 terminals. The product has been designed against, and is fully compliant with, all of the relevant advisory notes contained in this document.

European Radio Approval Information (for products fitted with EU-approved radio devices)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz band, may be present (embedded) in your printer system which is intended for home or office use. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the European Union or associated areas if a CE mark with **CE** a Notified Body Registration Number and the Alert Symbol is on the system label.

The power output of the wireless device or devices that may be embedded in your printer is well below the RF exposure limits as set by the European Commission through the R&TTE directive.

European States qualified under wireless approvals:

EU

Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France (with frequency restrictions), Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, The Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden and the U.K.

EEA/EFTA countries

Iceland, Liechtenstein, Norway and Switzerland

European States with restrictions on use:

EU

In France, the frequency range is restricted to 2446.5-2483.5 MHz for devices above 10 mW transmitting power such as wireless EEA/EFTA countries

No limitations at this time

REGULATORY COMPLIANCE STATEMENTS

Wireless Guidance

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your printer system. The following section is a general overview of considerations while operating a wireless device. Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in your system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The power output of the wireless device or devices that may be embedded in your printer is well below the RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your printer) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

As a general guideline, a separation of 20 cm (8 inches) between the wireless device and the body, for use of a wireless device near the body (this does not include extremities) is typical. This device should be used more than 20 cm (8 inches) from the body when wireless devices are on and transmitting.

This transmitter must not be collocated or operation in conjunction with any other antenna or transmitter.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are listed below:



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11 (also known as wireless Ethernet) and Bluetooth communication devices are examples of devices that provide wireless communication.



In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.



Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.



If your system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.



Only use drivers approved for the country in which the device will be used. See the manufacturer System Restoration Kit, or contact manufacturer Technical Support for additional information.

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This product includes cryptographic software written by Eric Young(ey@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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CHINA ONLY

产品中有害有毒物质或元素的名称及含量


部件名称	有害有毒物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
塑料	O	O	O	O	O	O
金属 (机箱)	X	O	O	O	O	O
印刷电路部件 (PCA)	X	O	O	O	O	O
电缆 / 连接器	X	O	O	O	O	O
电源设备	X	O	O	O	O	O
电源线	X	O	O	O	O	O
机械部件	X	O	O	O	O	O
卡盒部件	X	O	O	O	O	O
定影部件	X	O	O	O	O	O
扫描仪部件 - CCD (如果有)	X	X	O	O	O	O
扫描仪部件 - 其它 (如果有)	X	O	O	O	O	O
印刷电路板部件 (PBA)	X	O	O	O	O	O
墨粉	O	O	O	O	O	O
滚筒	O	O	O	O	O	O

O：表示该有害有毒物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
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about this user's guide

This user's guide provides information about basic understanding of the machine as well as detailed explanation on each step during actual usage. It is a valuable resource for both novice and professional users for the proper installation and use of the machine.



-  • Read the safety information before using the machine.
- If you have a problem using the machine, refer to the troubleshooting chapter (See "Troubleshooting" on page 118).
- Terms used in this user's guide are explained in the glossary chapter (See "Glossary" on page 145).
- Illustrations in this user's guide may differ from your machine depending on its options or models.
- The procedures in this user's guide are mainly based on Windows XP.

CONVENTION

Some terms in this guide are used interchangeably, as below.

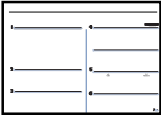
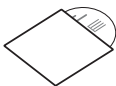

- Document is synonymous with original.
- Paper is synonymous with media, or print media.
- Machine refers to printer or MFP.

The following table offers the conventions of this guide.

CONVENTION	DESCRIPTION	EXAMPLE
Bold	For texts on the display or button names on the machine.	Start
Note	Provides additional information or details for the machine function and feature.	 The date format may differ from country to country.
Caution	Contains information you can use to protect the machine from possible mechanical damage or malfunction	 Do not touch the surface of the drum located in the toner cartridge or imaging unit.
Footnote	Provides additional information on certain words or a phrase.	a. pages per minute
(“Cross-reference”)	Refers you to additional detailed information.	(See "Finding more information" on page 26).

FINDING MORE INFORMATION

You can find information about setting up and using your machine in the following resources, either as a print-out or on screen.

MATERIAL NAME	DESCRIPTION
Quick Installation Guide 	This guide provides information on setting up your machine. This guide is provided in the box with the printer.
User's Guide 	This guide provides you with step-by-step instructions for using your machine's full features, maintaining your machine, troubleshooting, and replacing supplies.
Machine Driver Help 	This help provides you with information about the printer driver and instructions for setting up the options for printing (See "Using help" on page 73).
Samsung website	If you have Internet access, you can get help, support, machine drivers, manuals, and order information from the Samsung website, www.samsung.com/printer .
Downloadable software	<p>You can download useful software programs from the Samsung website.</p> <ul style="list-style-type: none">• Samsung AnyWeb Print: helps personal users to screen-capture the website screen in Windows Internet Explorer easily. (http://solution.samsungprinter.com/personal/anywebprint)• SyncThru™ Web Admin Service: provides convenient tools for network administrators who need to manage many machines simultaneously. This program is for network model only. (http://solution.samsungprinter.com)• Samsung Easy Color Manager: helps Samsung color laser printer users to adjust color as they like. (http://solution.samsungprinter.com/personal/colormanager)

features of your new product

Your new machine is equipped with a number of special features that improve the quality of the documents you print.

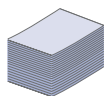
SPECIAL FEATURES

Print with excellent quality and speed



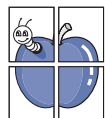
- You can print with a full range of colors using cyan, magenta, yellow and black.
- You can print with a resolution of up to 2400 x 600 dpi effective output.
- Your machine prints A4-sized paper at up to 16 ppm and Letter-sized paper at up to 17 ppm. In the color mode, your machine prints A4-sized or Letter-sized paper at up to 4 ppm.

Handle many different types of printable material



- The 130-sheet tray supports plain paper in various sizes - letterhead, envelopes, labels, custom-sized media, postcard and heavy paper.

Create professional documents



- Print Posters. The text and pictures of each page of your document are magnified and printed across the sheet of paper and can then be taped together to form a poster (See "Printing posters" on page 73).
- Print Watermarks. You can customize your documents with words such as "Confidential" (See "Using watermarks" on page 74).
- You can use preprinted or letterhead paper (See "Using overlay" on page 75).

Save time and money



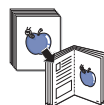
- To save paper, you can print multiple pages on one single sheet of paper (See "Printing multiple pages on one sheet of paper" on page 73).
- This machine automatically conserves electricity by substantially reducing power consumption when not in use.
- To save paper, you can print on both sides of the paper (manual) (See "Printing on both sides of the paper (Manual)" on page 73).

Print in various environments



- You can print with various operating systems such as Windows, Linux and Macintosh operating systems (See "System requirements" on page 39).
- Your machine is equipped with Hi-Speed USB 2.0 interface and network interface.
- Your machine is equipped with wireless network interface (CLX-3185FW only).

Copy originals in several formats



- Your machine can copy multiple image copies from the original document on a single page (See "2-up or 4-up copying (N-up)" on page 80).
- There are special functions to erase catalog and newspaper background.
- The print quality and image size may be adjusted and enhanced at the same time.

Scan the originals and send it right away



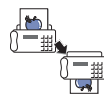
- Scan in color and use the precise compressions of BMP, JPEG, TIFF and PDF formats.
- Quickly scan and send files to multiple destination using networking scanning (See "For network connected machine (CLX-3185N/CLX-3185FN/CLX-3185FW only)" on page 84).

IPv6 (CLX-3185N/CLX-3185FN/CLX-3185FW only)



- The machine supports IPv6. See "IPv6 Configuration" on page 49 for the more information.

Set a specific time to transmit a Fax (CLX-3185FN/CLX-3185FW only)



- You can specify a certain time to transmit the fax and also send the fax to several stored destinations.
- After the transmission, the machine may point out the fax reports according to the setting.

Eco copy (CLX-3185/CLX-32185N/CLX-185FN only)



- You can cut toner consumption and paper usage. See "Eco Copy button (CLX-3185/CLX-3185N/CLX-318FN only)" on page 36 for the more information.

DLNA (CLX-3185FW only)



- This machine supports DLNA Printing as a DMP (Digital Media Printer). You can easily print by the DLNA Device including Printing Control Capability on the home network.

FEATURES BY MODELS

The machine is designed to support all of your document needs from printing and copying to more advanced networking solutions for your business.

Some features and optional goods may not be available depending on models or countries.

The below table is a listing of the major features by each model.

FEATURES	CLX-3185 CLX-3185K CLX-3186	CLX-3185N CLX-3185NK CLX-3186N	CLX-3185WK	CLX-3185FN CLX-3186FN	CLX-3185FW
Print	•	•	•	•	•
Duplex (2-sided) printing (manual)	•	•	•	•	•
Copy	•	•	•	•	•
Eco Copy	•	•		•	
Scan	•	•	•	•	•
Fax				•	•
Network PC fax				•	•
Fax to PC (Samsung Scan and Fax Manager)				•	•
On Hook Dial				•	•
USB 2.0	•	•	•	•	•
USB Memory Interface (Direct USB)		•	•	•	•
IPv6		•	•	•	•
Network Interface Ethernet 10/100 Base TX wired LAN		•	•	•	•
Network Interface 802.11b/n/g wireless LAN			•		•
SyncThru™ Web Service		•	•	•	•
Print Screen	•				
PictBridge		•	•	•	•
Automatic Document Feeder (ADF)				•	•

(•: Included, ○: Optional, Blank: Not available)



- CLX-3185, CLX-3185K and CLX-3186 are the same machine despite the name difference. This User's Guide is written on the basis of CLX-3185.
- CLX-3185N, CLX-3185NK and CLX-3186N are the same machine despite the name difference. This User's Guide is written on the basis of CLX-3185N.
- CLX-3185FN and CLX-3186FN are the same machine despite the name difference. This User's Guide is written on the basis of CLX-3185FN.

introduction

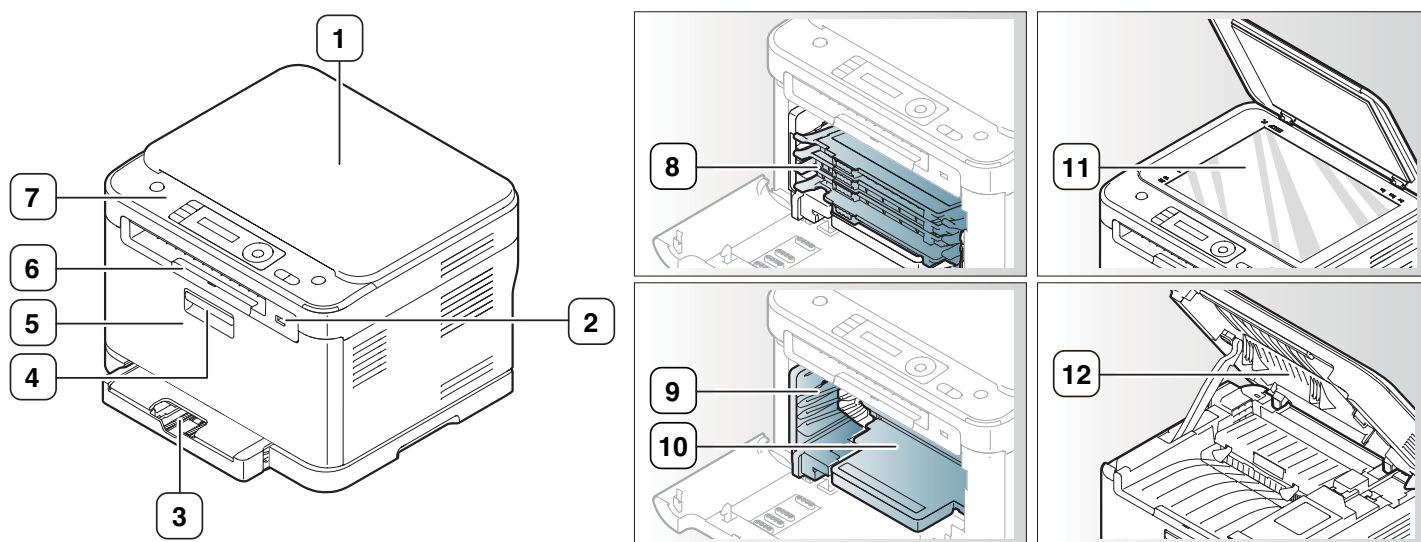
This chapter gives you an overview of your machine.

This chapter includes:

- Machine overview (CLX-3185/CLX-3185N/CLX-3185WK)
- Control panel overview (CLX-3185/CLX-3185N/CLX-3185WK)
- Machine overview (CLX-3185FN/CLX-3185FW)
- Control panel overview (CLX-3185FN/CLX-3185FW)
- Understanding the Status LED
- Introducing the useful buttons
- Acknowledging the status of the toner cartridge

MACHINE OVERVIEW (CLX-3185/CLX-3185N/CLX-3185WK)

Front view

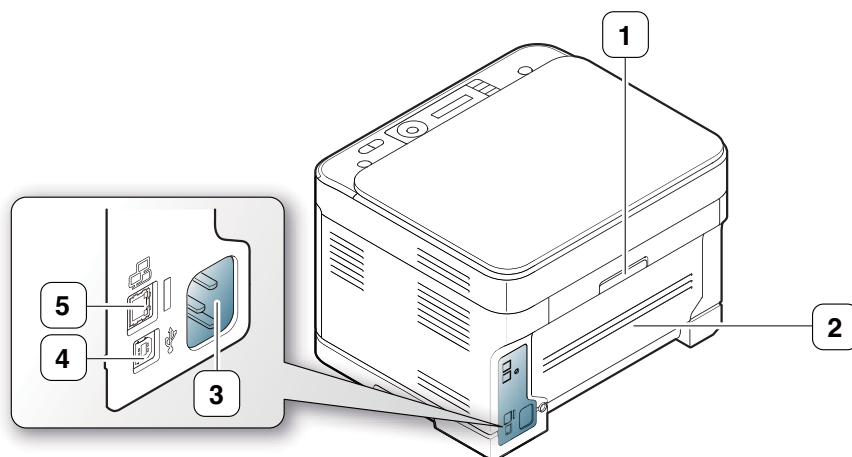


This illustration may differ from your machine depending on its model.

1 Scanner lid	5 Front door	9 Waste toner container
2 USB port ^a	6 Output support	10 Imaging unit
3 Tray 1	7 Control panel	11 Scanner glass
4 Front door handle	8 Toner cartridges	12 Scan unit

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

Rear view



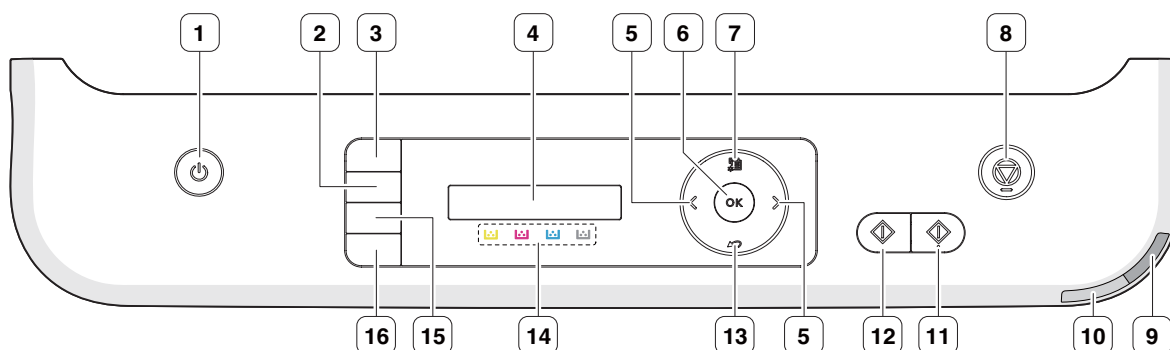
This illustration may differ from your machine depending on its model.

1	Rear door handle	4	USB port
2	Rear door	5	Network port ^a
3	Power cord receptacle		

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

CONTROL PANEL OVERVIEW (CLX-3185/CLX-3185N/CLX-3185WK)

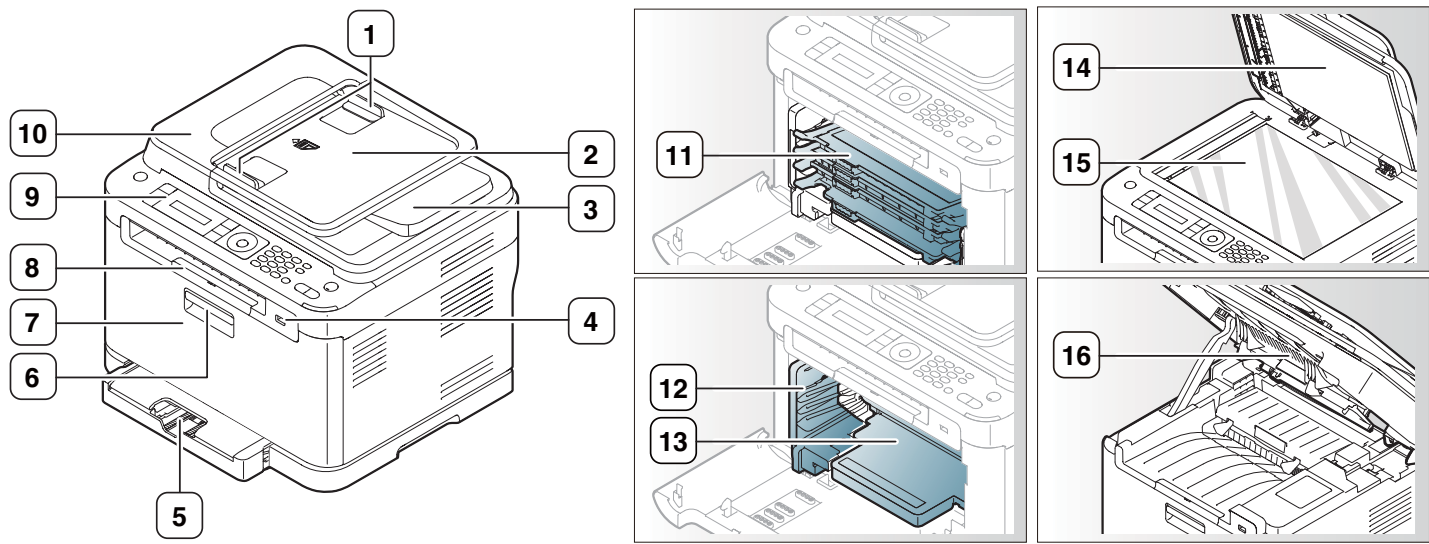
This control panel may differ from your machine depending on its model.



1	Power	Allows you to turn the power on and off (See "Power button" on page 36).
	Eco Copy	Reduces toner consumption and paper usage (See "Eco Copy button (CLX-3185/CLX-3185N/CLX-3185FN only)" on page 36).
2	Direct USB (CLX-3185WK)	Allows you to directly print files stored on a USB memory device when it is inserted into the USB memory port on the front of your machine (See "Using USB memory device (CLX-3185N/CLX-3185FN/CLX-3185WK/CLX-3185FW only)" on page 100).
3	ID Copy	Allows you to copy both sides the ID card like a driver's license to a single side of paper (See "ID card copying" on page 80).
4	Display	Shows the current status and prompts during an operation.
5	Left/Right Arrow	Scrolls through the options available in the selected menu and increases or decreases values.
6	OK	Confirms the selection on the screen.
7	Menu	Enters Menu mode and scrolls through the available menus (See "Menu overview" on page 106).
8	Stop/Clear	Stops an operation at any time. In ready mode, clears/cancels the copy options such as the darkness, the document type setting, the copy size and the number of copies.
9	Wireless LED (CLX-3185WK)	Shows the current status of the wireless network connection (See "Understanding the Status LED" on page 36).
10	Status LED	Shows the status of your machine (See "Understanding the Status LED" on page 36).
11	Color Start	Begins a printing job in color mode.
12	Black Start	Begins a printing job in black and white mode.
13	Back	Sends you back to the upper menu level.
14	Toner Color	The toner colors shown below LCD display co-works with the display messages (See "Acknowledging the status of the toner cartridge" on page 37).
15	Scan to	Sends scanned data (See "Scanning originals and sending to your computer (Scan to PC)" on page 83).
	Print Screen (CLX-3185)	Prints the displayed screen of your monitor (See "Print screen button (CLX-3185 only)" on page 36).
16	Direct USB (CLX-3185N)	Allows you to directly print files stored on a USB memory device when it is inserted into the USB memory port on the front of your machine (See "Using USB memory device (CLX-3185N/CLX-3185FN/CLX-3185WK/CLX-3185FW only)" on page 100).
	WPS (CLX-3185WK)	If your wireless access point supports Wi-Fi Protected Setup™ (WPS), you can configure the machine easily without a computer (See "WPS button (CLX-3185WK/CLX-3185FW only)" on page 37).

MACHINE OVERVIEW (CLX-3185FN/CLX-3185FW)

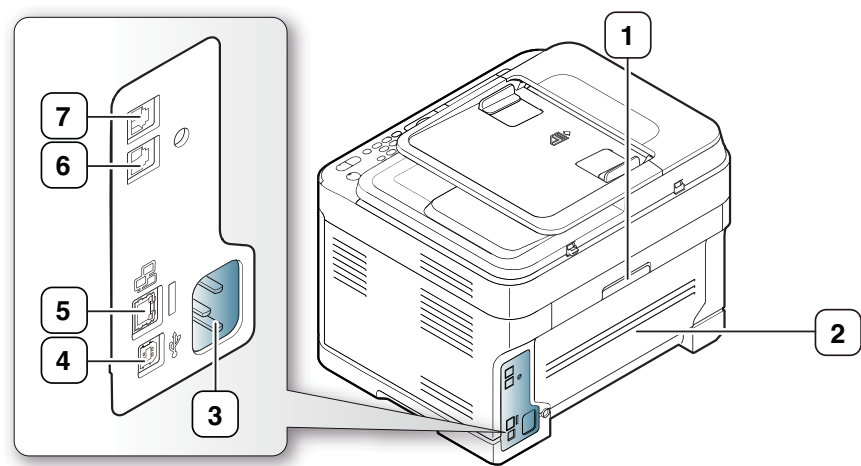
Front view



This illustration may differ from your machine depending on its model.

1 Document width guides	5 Tray 1	9 Control panel	13 Imaging unit
2 Document feeder input tray	6 Front door handle	10 Document feeder cover	14 Scanner lid
3 Document feeder output tray	7 Front door	11 Toner cartridges	15 Scanner glass
4 USB port	8 Document output tray	12 Waste toner container	16 Scan unit

Rear view

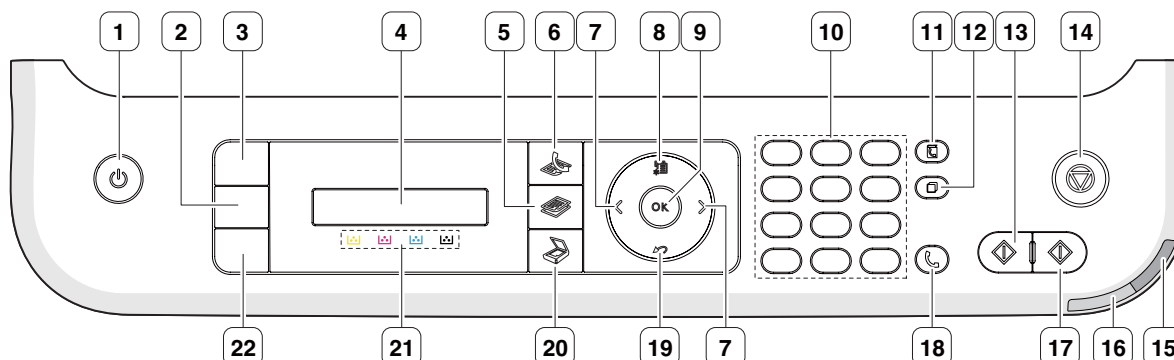


This illustration may differ from your machine depending on its model.

1	Rear door handle	5	Network port
2	Rear door	6	Telephone line socket
3	Power cord receptacle	7	Extension telephone socket (EXT)
4	USB port		

CONTROL PANEL OVERVIEW (CLX-3185FN/CLX-3185FW)

This control panel may differ from your machine depending on its model.




1	Power	Allows you to turn the power on and off (See "Power button" on page 36).
2	Eco Copy (CLX-3185FN)	Reduces toner consumption and paper usage (See "Eco Copy button (CLX-3185/CLX-3185N/CLX-3185FN only)" on page 36).
	Direct USB (CLX-3185FW)	Allows you to directly print files stored on a USB memory device when it is inserted into the USB memory port on the front of your machine (See "Using USB memory device (CLX-3185N/CLX-3185FN/CLX-3185WK/CLX-3185FW only)" on page 100).
3	ID Copy	Allows you to copy both sides of the ID card like a driver's license to a single side of paper (See "ID card copying" on page 80).
4	Display	Shows the current status and prompts during an operation.
5	Copy	Activates Copy mode.
6	Fax	Activates Fax mode.
7	Left/Right Arrow	Scrolls through the options available in the selected menu and increases or decreases values.
8	Menu	Enters Menu mode and scrolls through the available menus (See "Menu overview" on page 106).
9	OK	Confirms the selection on the screen.
10	Number Keypad	Dials a number or enters alphanumeric characters (See "Entering characters using the number keypad (CLX-3185FN/CLX-3185FW only)" on page 62).
11	Address Book	Allows you to search for stored email addresses.
12	Redial/Pause	Redials the last number in ready mode, or inserts a pause into a fax number in Edit mode.
13	Black Start	Begins a printing job in black and white mode.
14	Stop/Clear	Stops an operations at any time. In ready mode, clears/cancels the copy options such as the darkness, the document type setting, the copy size and the number of copies.
15	Wireless LED (CLX-3185FW)	Shows the current status of the wireless network connection (See "Understanding the Status LED" on page 36).
16	Status LED	Shows the status of your machine (See "Understanding the Status LED" on page 36).
17	Color Start	Begins a printing job in color mode.
18	On Hook Dial	Engages the telephone line.
19	Back	Sends you back to the upper menu level.


20	Scan/Email	Activates Scan mode.
21	Toner Color	The toner colors shown below LCD display co-works with the display messages (See "Acknowledging the status of the toner cartridge" on page 37).
22	Direct USB (CLX-3185FN)	Allows you to directly print files stored on a USB memory device when it is inserted into the USB port on the front of your machine (See "Using USB memory device (CLX-3185N/CLX-3185FN/CLX-3185WK/CLX-3185FW only)" on page 100).
	WPS (CLX-3185FW)	If your wireless access point supports Wi-Fi Protected Setup™ (WPS), you can configure the machine easily without a computer (See "WPS button (CLX-3185WK/CLX-3185FW only)" on page 37).

UNDERSTANDING THE STATUS LED

The color of the Status LED indicates the machine's current status.


STATUS		DESCRIPTION
Off		<ul style="list-style-type: none">The machine is off-line.The machine is in power saver mode. When data is received or any button is pressed, it switches to on-line automatically.Wireless function can not be used.
Green	Blinking	<ul style="list-style-type: none">When the green LED slowly blinks, the machine is receiving data from a computer.When the green LED blinks rapidly, the machine is printing data.
	On	The machine is on-line and can be used.
Blue	On	When the machine is connected to a wireless network, Wireless LED lights on blue (CLX-3185FW only).
Red	Blinking	<ul style="list-style-type: none">A minor error has occurred and the machine is waiting for the error to be cleared. Check the display message. When the problem is cleared, the machine resumes (See "Understanding display messages" on page 122).A small amount of toner is left in the cartridge. The estimated cartridge life of toner is close. Prepare a new cartridge for replacement. You may temporarily increase the printing quality by redistributing the toner (See "Redistributing toner" on page 118).
	On	<ul style="list-style-type: none">A toner cartridge has almost reached the end of its estimated cartridge life. It is recommended to replace the toner cartridge (See "Replacing the toner cartridge" on page 136).A paper jam has occurred (See "Clearing paper jams" on page 119).The door is opened. Close the door.There is no paper in the tray. Load paper in the tray.The machine has stopped due to a major error. Check the display message (See "Understanding display messages" on page 122).

 Samsung does not recommend using a non-genuine Samsung toner cartridge such as one that is refilled or remanufactured. Samsung cannot guarantee a 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.

 Check the message on the display. Follow the instructions in the message or refer to troubleshooting part (See "Understanding display messages" on page 122). If the problem persists, call a service representative.

 All printing errors will be appeared in the Smart Panel program window. If the problem persists, call a service representative.

INTRODUCING THE USEFUL BUTTONS

-  Supported optional devices and features may differ according to your model. Check your model name.
- Illustrations may differ from your machine depending on the model or its options. Check your model name.

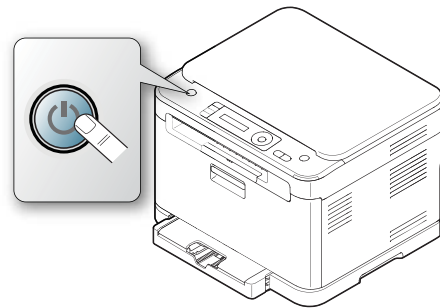
Menu button


When you want to know the machine status and set your machine to use an advanced feature, click the **Menu** button (See "Machine status and advanced feature" on page 103).

Power button

For CLX-3185 CLX-3185N and CLX-3185WK, plug the power cord into the AC power outlet and press this button, the machine will be turned on. When you want to turn the power off, press this button until **Power Down** appears on the display. Choose **Yes** to turn the power off.

For CLX-3185FN and CLX-3185FW, plug the power cord into the AC power outlet and then the machine will be turned on automatically.




-  When the machine goes into power save mode, **Power** button lights on blue.

Print screen button (CLX-3185 only)

If you press **Print Screen** button for more than two seconds, the machine prints the active windows displayed in the monitor.

If you press **Print Screen** button for less than two seconds, the machine prints the whole monitor screen.

-  The page will be printed on the default page like A4 or Letter.
- You can only use this function with a USB-connected machine.
- Print Screen** can only be used with Windows and Macintosh operating systems.
- You can only use this function if the machine driver is installed.

Eco Copy button (CLX-3185/CLX-3185N/CLX-318FN only)

The **Eco Copy** function cuts toner consumption and paper usage. You can configure Eco Copy function to adjust your paper savings and save setting you want to use.

- Press **Menu** on the control panel.
- Press the left/right arrow until **Copy Setup** appears and press **OK**.
- Press **OK** when **Change Default** appears.
- Press the left/right arrow until **Eco Copy** appears and press **OK**.
- Press the left/right arrow to select the mode you want.
 - Mono Only**: prints all original images in black and white mode.

- **2-Up/Mono:** prints two original images reduced to fit onto one sheet of paper in black and white mode.
- **4-Up/Mono:** prints four original images reduced to fit onto one sheet of paper in black and white mode.
- **2-Up/Color:** prints two original images reduced to fit onto one sheet of paper in color mode.
- **4-Up/Color:** prints four original images reduced to fit onto one sheet of paper in color mode.

6. Press **OK** to save the selection.

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

WPS button (CLX-3185WK/CLX-3185FW only)

Wi-Fi Protected Setup™ (WPS) is a standard for easy and secure establishment of a wireless network. This function simplifies the process of configuring the wireless network connection and security options.

The **WPS** button enables you to setup the wireless network configuration easily. This function simplifies the process of configuring the wireless network options such as a network name (SSID), data encryption and authentication. You can complete the wireless connection settings by just pressing this button.

To perform this function, refer to "Wireless network setup (CLX-3185FW/CLX-3185WK only)" on page 50.

ACKNOWLEDGING THE STATUS OF THE TONER CARTRIDGE

The status of toner cartridges is indicated by the Status LED and the LCD display. If the toner cartridge is low or needs to be replaced, the Status LED turns red and the display shows the message. However, the arrow mark shows which color toner is of concern or may be installed with a new cartridge.

Example:




The above example shows the yellow cartridge status indicated by the arrow. Check the message to find out what the problem is and how to solve it. See "Understanding display messages" on page 122 to browse the detailed information on error messages.

! 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.

getting started

This chapter gives you step-by-step instructions for setting up the USB connected machine and software.

This chapter includes:

- Setting up the hardware
 - Supplied software
 - System requirements
-  • Supported optional devices and features may differ according to your model. Check your model name.
- Illustrations may differ from your machine depending on the model or its options. Check your model name.

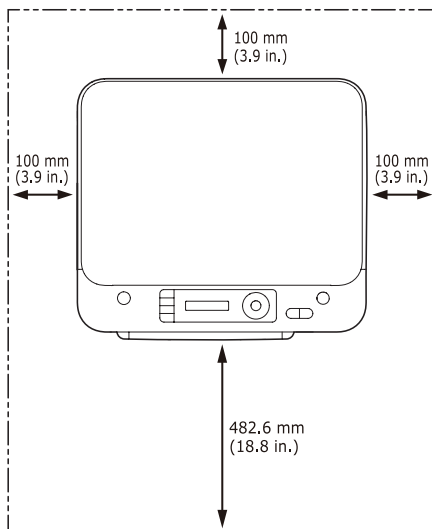
SETTING UP THE HARDWARE

This section shows the steps to set up the hardware, as is explained in the Quick Installation Guide. Make sure you read the Quick Installation Guide first and follow the steps below.

1. Select a stable location.

Select a level, stable place with adequate space for air circulation. Allow extra space to open door(s) and tray(s).

The area should be well ventilated and away from direct sunlight or sources of heat, cold, and humidity. Do not set the machine close to the edge of your desk or table.

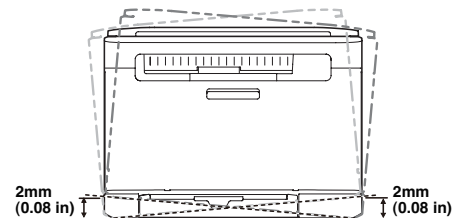


Printing is suitable for altitudes under 1,000 m (3,281 ft.). Refer to the altitude setting to optimize your printing (See "Altitude adjustment" on page 61).


Place the machine on a flat, stable surface so that there is no incline greater than 2 mm (0.08 inch). Otherwise, printing quality may be

- Installing USB connected machine's driver
- Sharing your machine locally

affected.




2. Unpack the machine and check all the enclosed items.
3. Remove all tape.
4. Install the toner cartridge.
5. Load paper (See "Loading paper in the tray" on page 68).
6. Make sure that all cables are connected to the machine.
7. Turn the machine on.

 When you move 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 bad print quality. This machine will not operate when the power main fails.

SUPPLIED SOFTWARE

After you have set up your machine and connected it to your computer. You must install the machine software. If you are a Windows or Macintosh OS user, install the software from the supplied CD, or if you are a Linux OS user, download the software from the Samsung website (www.samsung.com/printer) and install on your computer.

-  • Machine software is occasionally updated for reasons like the release of new operating system and etc. If needed, download the latest version from the Samsung website (www.samsung.com/printer).
- Installed software may be different depending on each model.

OS	CONTENTS
Windows	<ul style="list-style-type: none"> Printer driver: Use this driver to take full advantage of your machine's features. Scanner driver: TWAIN and Windows Image Acquisition (WIA) drivers are available for scanning documents on your machine. Smart Panel: This program allows you to monitor the machine's status and alerts you when an error occurs during printing. SmarThru^a: This program is the accompanying Windows-based software for your multifunctional machine. Samsung Scan and Fax Manager: You can find out about Samsung Scan and Fax Manager program information and installed scan driver's condition. Network PC Fax: You can send a fax from your computer without going to the machine. (CLX-3185FN/CLX-3185FW only) SetIP: Use this program to set your machine's TCP/IP addresses.
Macintosh	<ul style="list-style-type: none"> Printer driver: Use this driver to take full advantage of your machine's features. Scanner driver: TWAIN driver is available for scanning documents on your machine. Smart Panel: This program allows you to monitor the machine's status and alerts you when an error occurs during printing. Samsung Scan and Fax Manager: You can find out about Samsung Scan and Fax Manager program information and installed scan driver's condition. Fax Utilities: You can send a fax from your computer without going to the machine. (CLX-3185FN/CLX-3185FW only) SetIP: Use this program to set your machine's TCP/IP addresses.
Linux	<ul style="list-style-type: none"> Unified Linux Driver: Use this driver to take full advantage of your machine's features. SANE: Use this driver to scan documents. Smart Panel: This program allows you to monitor the machine's status and alerts you when an error occurs during printing. SetIP: Use this program to set your machine's TCP/IP addresses.

a. Allows you to edit a scanned image in various ways using a powerful image editor and to send the image by email. You can also open another image editor program such as Adobe Photoshop, from SmarThru. For details, refer to the on-screen help supplied on the SmarThru program (See "SmarThru" on page 110).

SYSTEM REQUIREMENTS

Before you begin, ensure that your system meets the following requirements.

Microsoft® Windows®

Your machine supports the following Windows operating systems.

OPERATING SYSTEM	REQUIREMENT (RECOMMENDED)		
	CPU	RAM	FREE HDD SPACE
Windows® 2000	Intel® Pentium® II 400 MHz (Pentium III 933 MHz)	64 MB (128 MB)	600 MB
Windows® XP	Intel® Pentium® III 933 MHz (Pentium IV 1 GHz)	128 MB (256 MB)	1.5 GB
Windows Server® 2003	Intel® Pentium® III 933 MHz (Pentium IV 1 GHz)	128 MB (512 MB)	1.25 GB to 2 GB
Windows Server® 2008	Intel® Pentium® IV 1 GHz (Pentium IV 2 GHz)	512 MB (2 GB)	10 GB
Windows Vista®	Intel® Pentium® IV 3 GHz	512 MB (1 GB)	15 GB
Windows® 7	Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher	1 GB (2 GB)	16 GB
		<ul style="list-style-type: none"> Support for DirectX® 9 graphics with 128 MB memory (to enable the Aero theme). DVD-R/W Drive 	
Windows Server® 2008 R2	Intel® Pentium® IV 1 GHz (x86) or 1.4 GHz (x64) processors (2 GHz or faster)	512 MB (2 GB)	10 GB



- Internet Explorer 5.0 or higher is the minimum requirement for all Windows operating systems.
- Users who have an administrator right can install the software.
- Windows Terminal Services** is compatible with your machine.

Macintosh

OPERATING SYSTEM	REQUIREMENTS (RECOMMENDED)		
	CPU	RAM	FREE HDD SPACE
Mac OS X 10.3 ~ 10.4	<ul style="list-style-type: none"> Intel® Processors PowerPC G4/ G5 	<ul style="list-style-type: none"> 128 MB for a PowerPC based Mac (512 MB) 512 MB for a Intel-based Mac (1 GB) 	1 GB
Mac OS X 10.5	<ul style="list-style-type: none"> Intel® Processors 867 MHz or faster Power PC G4/ G5 	512 MB (1 GB)	1 GB
Mac OS X 10.6	<ul style="list-style-type: none"> Intel® Processors 	1 GB (2 GB)	1 GB

Linux

ITEM	REQUIREMENTS
Operating system	Fedora 2~10 (32/ 64 bit) OpenSuSE® 9.2, 9.3, 10.0, 10.1, 10.2, 10.3, 11.0, 11.1 (32/64 bit) SuSE Linux 9.1 (32 bit) Ubuntu 6.06, 6.10, 7.04, 7.10, 8.04, 8.10 (32/64 bit) Mandrake 10.0, 10.1 (32/64 bit) Mandriva 2005, 2006, 2007, 2008, 2009 (32/64 bit) Debian 3.1, 4.0, 5.0 (32/64 bit) Redhat® Enterprise Linux WS 4, 5 (32/64 bit) SuSE Linux Enterprise Desktop 9, 10 (32/64 bit)
CPU	Pentium IV 2.4GHz (Intel Core™2)
RAM	512 MB (1 GB)
Free HDD space	1 GB (2GB)

- It is necessary to claim swap partition of 300 MB or larger for working with large scanned images.
- The Linux scanner driver supports the optical resolution at maximum.

INSTALLING USB CONNECTED MACHINE'S DRIVER

A locally connected machine is a machine directly connected to your computer by a USB cable.

- Only use a USB cable no longer than 3 m (10 ft.).

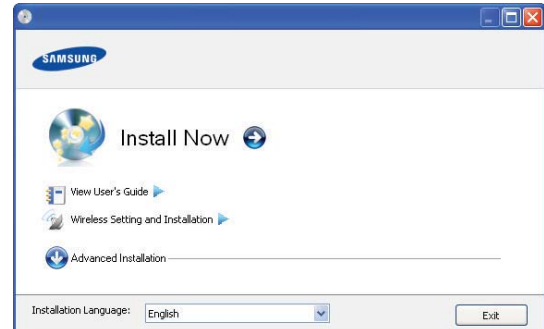
Windows

You can install the machine software using the typical or custom method.

The following steps are recommended for most users who use a machine directly connected to your computer. All components necessary for machine operations will be installed.

- Make sure that the machine is connected to your computer and powered on.
 - If the "Found New Hardware Wizard" appears during the installation procedure, click **Cancel** to close the window.
- Insert the supplied software CD into your CD-ROM drive.
 - The software CD should automatically run and an installation window will appear.
 - If the installation window does not appear, click **Start** and then **Run**. Type X:\Setup.exe, replacing "X" with the letter, which represents your CD-ROM drive. Click **OK**.
 - If you use Windows Vista, Windows 7 or Windows Server 2008 R2 click **Start > All programs > Accessories > Run**. Type X:\Setup.exe replacing "X" with the letter, which represents your CD-ROM drive and click **OK**.
 - If the **AutoPlay** window appears in Windows Vista, click **Run Setup.exe** in **Install or run program** field, and click **Continue** in the **User Account Control** windows.
 - If the **AutoPlay** window appears in Windows 7 or Windows Server 2008 R2, click **Run Setup.exe** in **Install or run program** field, and click **Yes** in the **User Account Control** window.

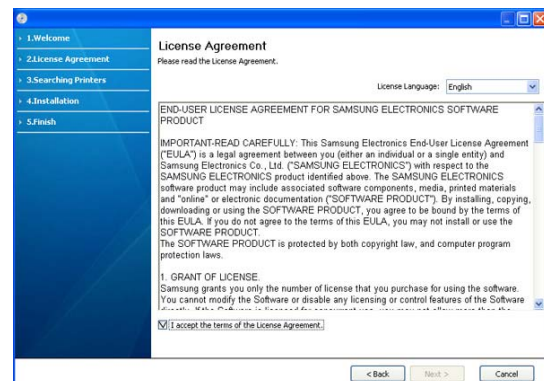
3. Select **Install Now**.



If necessary, select a language from the drop-down list.

- The **Advanced Installation** has two options, **Custom Installation** and **Install Software Only**. The **Custom Installation** allows you to select the machine's connection and choose individual component to install. The **Install Software Only** allows you to install the supplied software such as Smart Panel. Follow the guide in the window.

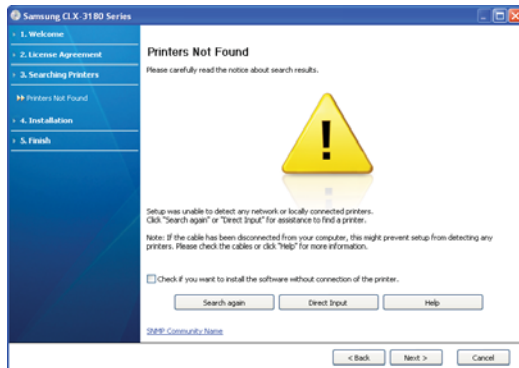
4. Read **License Agreement** and select **I accept the terms of the License Agreement**. Then, click **Next**.



The program searches for the machine.

- If your machine is not connected to the computer, the error

message appears.



- After connecting the machine, click **Next**.
 - If you do not want to connect the machine at this time, click the check box next to **Check if you want to install the software without connection of the printer**. In this case, **Print a test page** window will be skipped and installation is completed.
 - The installation window in this User's Guide may differ depending on the machine and interface in use.
5. The searched machines will be shown on the screen. Select the one you wish to use and click **Next**.
 - If the driver searched only one machine, the confirmation window appears.
 6. After the installation is finished, a window asking you to print a test page appears. If you want to print a test page, click **Print a test page**. Otherwise, just click **Next** and go to step 8.
 7. If the test page prints out correctly, click **Yes**. If not, click **No** to reprint it.
 8. If you want to register your machine on Samsung website, click **On-line Registration**.
 - If your machine is not connected yet to the computer, click **How to connect?**. **How to connect?** gives you the detailed information about how to connect the machine. Follow the instructions in the window.
 9. Click **Finish**.
 - If the printer driver does not work properly, follow the steps below to repair or reinstall the driver.
 - a) Make sure that the machine is connected to your machine and powered on.
 - b) From the **Start** menu, select **Programs** or **All Programs** > **Samsung Printers** > **your printer driver name** > **Maintenance**.
 - c) Select the option as you wish to execute, then follow the instruction in the window.

Macintosh

The software CD that came with your machine provides you with the Driver files that allow you to use the CUPS driver or PostScript driver (only available when you use a machine, which supports the PostScript driver) for printing on a Macintosh computer.

Also, it provides you with the TWAIN driver for scanning on a Macintosh computer.

1. Make sure that the machine is connected to your computer and powered on.
2. Insert the supplied software CD into your CD-ROM drive.
3. Double-click the CD-ROM icon that appears on your Macintosh desktop.
4. Double-click the **MAC_Installer** folder.
5. Double-click the **Installer OS X** icon.
6. Enter the password and click **OK**.
7. The Samsung Installer window opens. Click **Continue**.
8. Read the license agreement and click **Continue**.
9. Click **Agree** to agree to the license agreement.
10. Select **Easy Install** and click **Install**. **Easy Install** is recommended for most users. All components necessary for machine operations will be installed.
 - If you select **Custom Install**, you can choose individual components to install.
11. When the message which warns that all applications will close on your computer appears, click **Continue**.
12. Select **Typical installation for a local printer** and then click **OK**.
13. The Installation process is being executed.
14. The **Fax Queue Creator** window appears during the installation process.
 - For CLX-3185/CLX-3185N/CLX-3185WK, click **Cancel** to go to the next step.
 - For CLX-3185FN/CLX-3185FW, select your machine name from the **Printer Name** list and click **Create**. When the confirmation window appears, click **OK**.
15. Click **Continue** on the **Read Me** window.
16. After the installation is finished, click **Restart**.
 - If the printer driver does not work properly, uninstall the driver and reinstall it.

Follow the steps below to uninstall the driver for Macintosh.

 - a) Make sure that the machine is connected to your computer and powered on.
 - b) Insert the supplied software CD into your CD-ROM drive.
 - c) Double-click CD-ROM icon that appears on your Macintosh desktop.
 - d) Double-click the **MAC_Installer** folder.
 - e) Double-click the **Installer OS X** icon.
 - f) Enter the password and click **OK**.
 - g) The Samsung Installer window opens. Click **Continue**.
 - h) Read the license agreement and click **Continue**.
 - i) Click **Agree** to agree to the license agreement.
 - j) Select **Uninstall** and click **Uninstall**.
 - k) When the message which warns that all applications will close on your computer appears, click **Continue**.
 - l) When the uninstall is done, click **Quit**.


Linux

You need to download Linux software packages from the Samsung website to install the printer software (<http://www.samsung.com/printer>).

Follow the steps below to install the software.

Installing the Unified Linux Driver

- 1. Make sure that the machine is connected to your computer and powered on.
- 2. When the **Administrator Login** window appears, type in "root" in the **Login** field and enter the system password.

You must log in as a super user (root) to install the machine software. If you are not a super user, ask your system administrator.
- 3. From the Samsung website, download and unpack the Unified Linux Driver package to your computer.
- 4. Click  at the bottom of the desktop. When the Terminal screen appears, type in the following.


```
[root@localhost root]#tar xzf [FilePath]/UnifiedLinuxDriver.tar.gz
[root@localhost root]#cd [FilePath]/cdroot/Linux
[root@localhost Linux]#./install.sh
```

If you do not use the graphical interface and failed to install the software, you have to use the driver in the text mode. Follow the steps 3 to 4, and then follow the instructions on the terminal screen.
- 5. When the welcome screen appears, click **Next**.
- 6. When the installation is complete, click **Finish**.

The installation program added the Unified Driver Configurator desktop icon and the Unified Driver group to the system menu for your convenience. If you have any difficulties, consult the on-screen help that is available through your system menu or from the driver package Windows applications, such as **Unified Driver Configurator** or **Image Manager**.

Installing the SmartPanel

- 1. Make sure that the machine is connected to your computer and powered on.
- 2. When the **Administrator Login** window appears, type in "root" in the **Login** field and enter the system password.

You must log in as a super user (root) to install the machine software. If you are not a super user, ask your system administrator.
- 3. From the Samsung website, download and unpack the Smart Panel package to your computer.
- 4. Click  at the bottom of the desktop. When the Terminal screen appears, type in the following.

```
[root@localhost root]#tar xzf [FilePath]/SmartPanel.tar.gz
[root@localhost root]#cd [FilePath]/cdroot/Linux/smartpanel
[root@localhost smartpanel]#./install.sh
```


If you do not use the graphical interface and failed to install the software, you have to use the driver in the text mode. Follow the steps 3 to 4 and then follow the instructions on the terminal screen.

Installing the Printer Settings Utility

- 1. Make sure that the machine is connected to your computer and powered on.
- 2. When the **Administrator Login** window appears, type in "root" in the **Login** field and enter the system password.

You must log in as a super user (root) to install the machine software. If you are not a super user, ask your system

administrator.

- 3. From the Samsung website, download and unpack the Printer Settings Utility package to your computer.
- 4. Click  at the bottom of the desktop. When the Terminal screen appears, type in the following.

```
[root@localhost root]#tar xzf [FilePath]/PSU.tar.gz
[root@localhost root]#cd [FilePath]/cdroot/Linux/psu
[root@localhost psu]#./install.sh
```

If you do not use the graphical interface and failed to install the software, you have to use the driver in the text mode. Follow the steps 3 to 4 and then follow the instructions on the terminal screen.

If the printer driver does not work properly, uninstall the driver and reinstall it.

Follow the steps below to uninstall the driver for Linux.

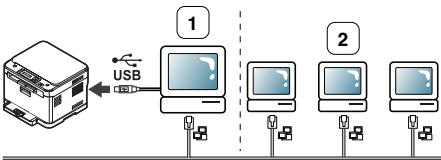
 - a) Make sure that the machine is connected to your computer and powered on.
 - b) When the **Administrator Login** window appears, type in "root" in the **Login** field and enter the system password.

You must log in as a super user (root) to uninstall the printer driver. If you are not a super user, ask your system administrator.
 - c) Click the icon at the bottom of the desktop. When the Terminal screen appears, type in the following.

```
[root@localhost root]#cd /opt/Samsung/mfp/uninstall/
[root@localhost uninstall]#./uninstall.sh
```
 - d) Click **Uninstall**.
 - e) Click **Next**.
 - f) Click **Finish**.

SHARING YOUR MACHINE LOCALLY

Follow the steps below to set up computers to share your machine locally. If the host computer is directly connected to the machine with a USB cable and is also connected to the local network environment, client computers connected to the local network can use the shared machine through the host computer to print.




1	Host computer	A computer, which is directly connected to the machine by a USB cable.
2	Client computers	Computers, which use the machine shared through the host computer.

Windows

Setting up a host computer

- 1. Install your printer driver (See "Installing USB connected machine's driver" on page 40).
- 2. Click the Windows **Start** menu.

3. For Windows Server 2000, select **Settings > Printers**.
 - For Windows XP/Server 2003, select **Printers and Faxes**.
 - For Windows Server 2008/Vista, select **Control Panel > Hardware and Sound > Printers**.
 - For Windows 7, select **Control Panel > Devices and Printers**.
 - For Windows Server 2008 R2, select **Control Panel > Hardware > Devices and Printers**.
4. Right-click on the printer icon.
5. For Windows XP/Server 2003/Server 2008/Vista, press **Properties**.
For Windows 7/Server 2008 R2, from context menus, select the **Printer properties**.


 If **Printer properties** item has a ► mark, you can select other printer drivers connected with the selected printer.

6. Select the **Sharing** tab.
7. Check the **Change Sharing Options**.
8. Check the **Share this printer**.
9. Fill in the **Share Name** field. Click **OK**.

Setting up a client computer


1. Install your printer driver (See "Installing USB connected machine's driver" on page 40).
2. Click the Windows **Start** menu.
3. Select **All programs > Accessories > Windows Explorer**.
4. Enter in IP address of the host computer and press Enter in your keyboard.



 In case the host computer requires a **User name** and **Password**, fill in User ID and password of the host computer account.

5. Right-click the printer icon you want to share and select **Connect**.
6. If a set up complete message appears, click **OK**.
7. Open the file you want to print and start printing.

Macintosh

 The following steps are for Mac OS X 10.5 ~ 10.6. Refer to Mac Help for other versions.

Setting up a host computer

1. Install your printer driver (See "Macintosh" on page 41).
2. Open the **Applications** folder > **System Preferences**, and click **Print & Fax**.
3. Select your machine to share in the **Printers list** on the left pane of the window.
4. Select **Share this printer**.

Setting up a client computer


1. Install your printer driver (See "Macintosh" on page 41).
2. Open the **Applications** folder > **System Preferences**, and click **Print & Fax**.
3. Press the "+" icon.
A display window showing the name of your shared printer appears.
4. Select your machine and click **Add**.

network setup (clx-3185n/clx-3185wk/clx-3185fn/clx-3185fw only)

This chapter gives you step-by-step instructions for setting up the network connected machine and software.

This chapter includes:

- Network environment
- Introducing useful network programs
- Using a wired network

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

NETWORK ENVIRONMENT

You need to set up the network protocols on the machine to use it as your network machine. You can set up the basic network settings through the machine's control panel.


The following table shows the network environments supported by the machine.

ITEM	REQUIREMENTS
Network interface	<ul style="list-style-type: none">• Ethernet 10/100 Base-TX• 802.11b/n/g Wireless LAN (CLX-3185WK and CLX-3185FW only)
Network operating system	<ul style="list-style-type: none">• Windows 2000/Server 2003 /Server 2008/XP/Vista/7/Server 2008 R2• Various Linux OS• Mac OS X 10.3 ~ 10.6
Network protocols	<ul style="list-style-type: none">• TCP/IPv4• DHCP, BOOTP• DNS, WINS, Bonjour, SLP, UPnP• Standard TCP/IP Printing (RAW), LPR, IPP, WSD• SNMPv 1/2/3, HTTP (S), IPSec• TCP/IPv6 (DHCP, DNS, RAW, LPR, SNMPv 1/2/3, HTTP (S), IPSec) (See "IPv6 Configuration" on page 49)
Wireless security	<ul style="list-style-type: none">• Authentication: Open System, Shared Key, WPA Personal, WPA2 Personal (PSK)• Encryption: WEP64, WEP128, TKIP, AES

- Installing wired network-connected machine's driver
- IPv6 Configuration

INTRODUCING USEFUL NETWORK PROGRAMS

There are several programs available to setup the network settings easily in network environment. For the network administrator especially, managing several machines on the network is possible.

 Before using the programs below, set the IP address first.

SyncThru™ Web Service

Web server embedded on your network machine, which allows you to do the following tasks.

- You can configure the network parameters necessary for the machine to connect to various network environments.
- You can customize machine settings.
(See "Using SyncThru™ Web Service (CLX-3185N/CLX-3185FN/CLX-3185FW only)" on page 108).


SyncThru™ Web Admin Service

Web-based machine management solution for network administrators. SyncThru™ Web Admin Service provides you with an efficient way of managing network devices and lets you remotely monitor and troubleshoot network machines from any site with corporate internet access. Download this program from <http://solution.samsungprinter.com>.

SetIP

This utility program allows you to select a network interface and manually configure the IP addresses for use with the TCP/IP protocol.

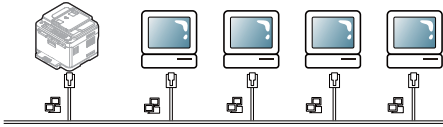
- See "IPv4 setting using SetIP Program (Windows)" on page 45.
- See "IPv4 setting using SetIP Program (Macintosh)" on page 46.
- See "IPv4 setting using SetIP Program (Linux)" on page 46.

 TCP/IPv6 is not supported by this program.

USING A WIRED NETWORK

You must set up the network protocols on your machine to use it on your network. This chapter will show you how this is easily accomplished.

You can use network after connecting network cable to a corresponding port on your machine.



Printing a network configuration report

You can print **Network Configuration Report** from the machine's control panel that will show the current machine's network settings. This will help you to set up a network and troubleshoot problems.

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 **Network Info.** appears and press **OK**.
4. Press the left/right arrow until **Yes** appears and press **OK**.

Using this **Network Configuration Report**, you can find your machine MAC address and IP address.

For example:

- MAC Address:00:15:99:41:A2:78
- IP Address:192.0.0.192

Setting IP address

First, you have to set up an IP address for network printing and managements. In most cases a new IP address will be automatically assigned by a DHCP (Dynamic Host Configuration Protocol) server located on the network.

In a few situations the IP address must be set manually. This is called a static IP and is often required in corporate Intranets for security reasons.

- **DHCP IP assignment:** Connect your machine to the network, and wait a few minutes for the DHCP server to assign an IP address to the machine. Then, print the **Network Configuration Report** as explained above. If the report shows that the IP address has changed, the assignment was successful. You will see the new IP address in the report.
- **Static IP assignment:** Use SetIP program to change the IP address from your computer. If your machine has a control panel, you can also change IP address using the machine's control panel.

In an office environment, we recommend that you contact a network administrator to set IP address for you.

IPv4 setting using control panel (Windows)

1. Connect your machine to the network with a network cable.
2. Turn on the machine.
3. Press **Menu** on the control panel.
4. Press the left/right arrow until **Network** appears and press **OK**.
5. Press the left/right arrow until **TCP/IP** appears and press **OK**.
6. Press the left/right arrow until **Static** appears and press **OK**.
7. Press the left/right arrow until **IP Address** appears and press **OK**.
8. Enter the IP address using numeric keypad and press **OK**.



Enter a byte between 0 and 255 using the number keypad and press the left/right arrow to move between bytes.

Repeat this to complete the address from the 1st byte to the 4th byte.

9. Enter other parameters such as the **Subnet Mask** and **Gateway** appears and press **OK**.

10. After entering all parameters, press **Stop/Clear** to return to ready mode.

Now go to "Installing wired network-connected machine's driver" on page 46.

IPv4 setting using SetIP Program (Windows)

This program is for manually setting the network IP address of your machine using its MAC address to communicate with the machine. A MAC address is the hardware serial number of the network interface and can be found in the **Network Configuration Report**.


Before using SetIP program, disable the computer firewall by performing the following steps.

1. Open **Control Panel**.
2. Double-click **Security Center**.
3. Click **Windows Firewall**.
4. Disable the firewall.

Installing the program

1. Insert the Printer Software CD-ROM provided with your machine. When the driver CD runs automatically, close that window.
2. Start Windows Explorer and open the X drive (X represents your CD-ROM drive).
3. Double-click **Application > SetIP**.
4. Double-click **Setup.exe** to install this program.
5. Select a language, then click **Next**.
6. Follow the instructions in the window and complete the installation.

Starting the program

1. Connect your machine to the network with a network cable.
2. Turn on the machine.
3. From the Windows **Start** menu, select **All Programs > Samsung Printers > SetIP > SetIP**.
4. Click on the  icon (third from left) in the SetIP window to open the TCP/IP configuration window.
5. Enter the machine's new information into the configuration window as follows. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.

- **MAC Address:** Find the machine's MAC address from the **Network Configuration Report** and enter it without the colons. For example, 00:15:99:29:51:A8 becomes 0015992951A8.
- **IP Address:** Enter a new IP address for your printer. For example, if your computer's IP address is 192.168.1.150,

enter 192.168.1.X (X is number between 1 and 254 other than the computer's address).

- **Subnet Mask:** Enter a Subnet Mask.
 - **Default Gateway:** Enter a Default Gateway.
6. Click **Apply**, and then click **OK**. The machine will automatically print the **Network Configuration Report**. Confirm that all the settings are correct.
 7. Click **Exit** to close the SetIP program.
 8. If necessary, restart the computer's firewall.


IPv4 setting using SetIP Program (Macintosh)

For using SetIP program, disable the computer firewall before continuing by performing the following.

1. Open **System Preferences**.
2. Click **Security**.
3. Click the **Firewall** menu.
4. Turn firewall off.

 The following instructions may vary from your model.

1. Connect your machine to the network with a network cable.
2. Insert the Installation CD-ROM, and open the disk window, select **MAC_Installer > MAC_Printer > SetIP > SetIPApplet.html**.
3. Double-click the file and **Safari** will automatically open, then select **Trust**. The browser will open the **SetIPApplet.html** page that shows the printer's name and IP address information.
4. Highlight the printer information row and select the **Setup icon**, which is the second icon from the left in the application menu bar. A TCP/IP Configuration window will open.

 If the printer was not shown in the information row, select the Manual Setting icon (third from left) to open the TCP/IP Configuration window.


5. Enter the machine's new information into the configuration window as follows. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.
 - **MAC Address:** Find the machine's MAC address from the **Network Configuration Report** and enter it without the colons. For example, 00:15:99:29:51:A8 becomes 0015992951A8.
 - **IP Address:** Enter a new IP address for your printer. For example, if your computer's IP address is 192.168.1.150, enter 192.168.1.X (X is number between 1 and 254 other than the computer's address).
 - **Subnet Mask:** Enter a Subnet Mask.
 - **Default Gateway:** Enter a Default Gateway.
6. Select **Apply**, then **OK**, and **OK** again. The printer will automatically print the configuration report. Confirm that all the settings are correct. **Quit Safari**. You may close and eject the installation CD-ROM. If necessary, restart the computer's firewall. You have successfully changed the IP address, subnet mask, and gateway.

IPv4 setting using SetIP Program (Linux)

SetIP program should be automatically installed during the printer driver installation.

1. Print the machine's network configuration report to find your machine's MAC address.
2. Open the **/opt/Samsung/mfp/share/utlis/**.
3. Double-click the **SetIPApplet.html** file.
4. Click to open the TCP/IP configuration window.

5. Enter the network card's MAC address, IP address, subnet mask, default gateway, and then click **Apply**.

 When you enter the MAC address, enter it without a colon(:).

6. The machine prints the network information. Confirm all the settings are correct.
7. Close the SetIP program.

Network parameter setting

You can also set up the various network settings through the network administration programs such as **SyncThru™ Web Admin Service** and **SyncThru™ Web Service**.

Restoring factory default settings

You may need to reset the machine to the factory default settings when machine that you are using is connected to new network environment.

Restoring factory default settings using control panel

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 **Clear Setting** appears and press **OK**.
4. Press the left/right arrow until **Yes** appears and press **OK**.
5. Turn off and restart machine to apply settings.

Restoring factory default settings using SyncThru™ Web Service

1. Start a web browser such as Internet Explorer, Safari or Firefox and enter your machine's new IP address in the browser window.

For example:

 http://192.168.1.133/

2. Click **Go** to access the SyncThru™ Web Service.
3. Click **Login** on the upper right of the website. The **Login** window appears.
4. Type in the **ID** and **Password**, and then click **Login**. If it is your first time logging into SyncThru™ Web Service, type in the below default ID and password.
 - **ID:** admin
 - **Password:** sec00000
5. Click **Settings > Network Settings**.
6. Click **Restore Default** on the left pane of the website.
7. Click **Clear**.
8. Click **Yes** when the confirmation window appears.
9. Click **OK** when the success window appears.
10. Turn off and restart machine to apply settings.

INSTALLING WIRED NETWORK-CONNECTED MACHINE'S DRIVER

Windows

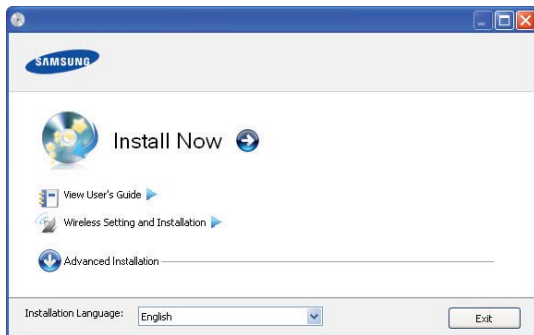
You can set up the machine driver, follow the steps below.

This is recommended for most users. All components necessary for machine operations will be installed.

1. Make sure that the machine is connected to the network or USB and powered on.
2. Insert the supplied software CD into your CD-ROM drive.

- The software CD should automatically run and an installation window appears.
- If the installation window does not appear, click **Start** and then **Run**. Type X:\Setup.exe, replacing "X" with the letter which represents your CD-ROM drive. Click **OK**.
- If you use Windows Vista, Windows 7 or Windows 2008 Server R2 click **Start > All programs > Accessories > Run**. Type X:\Setup.exe replacing "X" with the letter which represents your CD-ROM drive and click **OK**.
- If the **AutoPlay** window appears in Windows Vista, click **Run Setup.exe** in **Install or run program** field, and click **Continue** in the **User Account Control** windows.
- If the **AutoPlay** window appears in Windows 7 or Windows 2008 Server R2, click **Run Setup.exe** in **Install or run program** field, and click **Yes** in the **User Account Control** windows.

3. Select **Install Now**.



If necessary, select a language from the drop-down list.

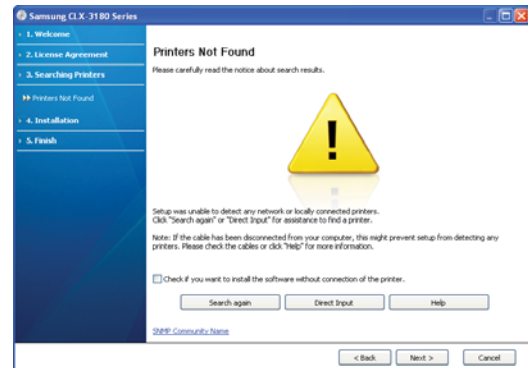
- For CLX-3185WK/CLX-3185FW, you can access **Wireless Setting and Installation** menu. The **Wireless Setting and Installation** allows you to install a wireless network to connect to the machine with a USB cable (See "Setting a wireless network with USB cable" on page 52).
- The **Advanced Installation** has two options, **Custom Installation** and **Install Software Only**. The **Custom Installation** allows you to select the machine's connection and choose individual component to install. The **Install Software Only** allows you to install the supplied software such as Smart Panel. Follow the instruction on the window.

4. Read **License Agreement**, and select **I accept the terms of the License Agreement**. Then, click **Next**.

The program searches for the machine.

- If your machine is not found in the network or locally, the error

message appears.



- **Check if you want to install the software without connection of the printer.**

- Check this option to install this program without a machine connected. In this case, the print a test page window will be skipped, and completes the installation.

- **Search again**

When you press this button, the firewall notice window appears.

- Turn off the firewall and **Search again**. For Windows operating system, click **Start > Control Panel > Windows Firewall**, and inactivate this option.
- Turn off the firewall from the third party's program beside the operating system. Refer to the manual provided by individual programs.

- **Direct Input**

The **Direct Input** allows you to search a specific machine on the network.

- **Search by IP address:** Enter the IP address or the host name. Then click **Next**.
To verify your machine's IP address, print a network configuration report (See "Printing a network configuration report" on page 45).
- **Search by network path:** To find a shared machine (UNC Path), enter the shared name manually or find a shared printer by clicking the **Browse** button. Then click **Next**.

- **Help**

If your machine is not connected to the computer or network, this help button gives detailed information about the how to connect the machine.

- **SNMP Community Name**

If your system administrator set the new **SNMP Community Name** on the machine, you can find the machine in the network. Contact your system administrator for new **SNMP Community Name**.

5. The searched machine will be shown on the screen. Select the one you wish to use and click **OK**.


- If the driver searched only one machine, the confirmation window appears.

6. After the installation is finished, a window asking you to print a test page appears. If you want to print a test page, click **Print a test page**. Otherwise, just click **Next** and go to step 8.

7. If the test page prints out correctly, click **Yes**.
If not, click **No** to reprint it.
8. To register as a user of the machine in order to receive information from Samsung website, click **On-line Registration**.

 If your machine is not connected yet to the network, click **How to connect?**. **How to connect?** gives detailed information about the how to connect the machine. Follow the instructions in the window.

9. Click **Finish**.

-  • After the driver setup is completed, you may enable firewall.
- If your printer driver does not work properly, follow the step below to repair or reinstall the driver.
- a) Make sure that the machine is connected to your machine and powered on.
 - b) From the **Start** menu, select **Programs** or **All Programs** > **Samsung Printers** > **your printer driver name** > **Maintenance**.
 - c) Select the option as you wish, follow the instruction on the window.


Macintosh

1. Make sure that the machine is connected to your network and powered on. Also, your machine's IP address should have been set.
2. Insert the supplied software CD into your CD-ROM drive.
3. Double-click the CD-ROM icon that appears on your Macintosh desktop.
4. Double-click the **MAC_Installer** folder.
5. Double-click the **Installer OS X** icon.
6. Enter the password and click **OK**.
7. The Samsung Installer window opens. Click **Continue**.
8. Read the license agreement and click **Continue**.
9. Click **Agree** to agree to the license agreement.
10. Select **Easy Install** and click **Install**. **Easy Install** is recommended for most users. All components necessary for machine operations will be installed.
If you select **Custom Install**, you can choose individual components to install.
11. The message which warns that all applications will close on your computer appears. Click **Continue**.
12. Select **Typical installation for a network printer** for a network printer and then click **OK**.
13. The SetIP program automatically runs. If the machine has already configured network information, close the SetIP program.
14. Click **OK** to continue the installation.
15. The **Fax Queue Creator** window appears during the installation process.
 - For CLX-3185N/CLX-3185WK, click **Cancel** to go to the next step.
 - For CLX-3185FN/CLX-3185FW, select your machine name from the **Printer Name** list and click **Create**. When the confirmation window appears, click **OK**.
16. Click **Continue** on the **Read me** window.
17. After the installation is finished, click **Restart**.
18. Open the **Applications** folder > **Utilities** > **Print Setup Utility**.
 - For Mac OS X 10.5~10.6, open the **Applications** folder > **System Preferences** and click **Print & Fax**.
19. Click **Add** on the **Printer List**.
 - For Mac OS X 10.5~10.6, click the "+" icon. A display window will pop up.

20. For Mac OS X 10.3, select the **IP Printing** tab.

- For Mac OS X 10.4, click **IP Printer**.
- For Mac OS X 10.5~10.6, click **IP**.

21. Select **HP Jetdirect - Socket** in **Protocol**.

 When printing a document containing many pages, printing performance may be enhanced by choosing **Socket** for **Printer Type** option.


22. Enter the machine's IP address in the **Address** input field.

23. Enter the queue name in the **Queue** input field. If you cannot determine the queue name for your machine server, try using the default queue first.

24. For Mac OS X 10.3, if Auto Select does not work properly, select **Samsung** in **Printer Model** and your machine name in **Model Name**.
 - For Mac OS X 10.4, if Auto Select does not work properly, select **Samsung** in **Print Using** and your machine name in **Model**.
 - For Mac OS X 10.5~10.6, if Auto Select does not work properly, choose **Select Printer Software** and your machine name in **Print Using**.

Your machine appears on the **Printer List**, and is set as the default machine.

25. Click **Add**.

 If the printer driver does not work properly, uninstall the driver and reinstall it.

Follow steps below to uninstall the driver for Macintosh.

- a) Make sure that the machine is connected to your computer and powered on.
- b) Insert the supplied software CD into your CD-ROM drive.
- c) Double-click CD-ROM icon that appears on your Macintosh desktop.
- d) Double-click the **MAC_Installer** folder.
- e) Double-click the **Installer OS X** icon.
- f) Enter the password and click **OK**.
- g) The Samsung Installer window opens. Click **Continue**.
- h) Select **Uninstall** and click **Uninstall**.
- i) When the message which warns that all applications will close on your computer appears, click **Continue**.
- j) When the uninstall is done, click **Quit**.

Linux

Install Linux Driver and add network Printer

1. Make sure that the machine is connected to your network and powered on. Also, your machine's IP address should have been set.
2. Download the Unified Linux Driver package from the Samsung website.
3. Extract the UnifiedLinuxDriver.tar.gz file and open the new directory.
4. Double-click the **Linux** folder.
5. Double-click the **install.sh** icon.
6. The Samsung Installer window opens. Click **Continue**.
7. The Add printer wizard window opens. Click **Next**.
8. Select Network printer and click **Search** button.
9. The Printer's IP address and model name appears on list field.
10. Select your machine and click **Next**.
11. Input the printer description and Next
12. When the add printer is done, click Finish
13. When the install is done, click Finish

Add network Printer

1. Double-click the **Unified Driver Configurator**.
2. Click **Add Printer...**
3. The **Add printer wizard** window opens. Click **Next**.
4. Select **Network printer** and click the **Search** button.
5. The printer's IP address and model name appears on list field.
6. Select your machine and click **Next**.
7. Input the printer description and **Next**
8. When the add printer is done, click **Finish**.

IPv6 CONFIGURATION



TCP/IPv6 is supported properly only in Windows Vista or higher.



If the IPv6 network seems to not be working, set all the network setting to the factory defaults and try again (See "Restoring factory default settings" on page 46).

In the IPv6 network environment, follow the next procedure to use the IPv6 address.

1. Connect your machine to the network with a network cable.
2. Turn on the machine.
3. Print a **Network Configuration Report** from the machine's control panel that will check IPv6 addresses.
 - a) Press **Menu** on the control panel.
 - b) Press the left/right arrow until **Network** appears and press **OK**.
 - c) Press the left/right arrow until **Network Info.** appears and press **OK**.
 - d) Press the left/right arrow until **Yes** appears and press **OK**.
4. Select **Start > Control Panel > Printers and Faxes**.
5. Click **Add a printer** on the left pane of the **Printers and Faxes** windows.
6. Click **Add a local printer** on the **Add Printer** windows.
7. The **Add Printer Wizard** window appears. Follow the instruction on the window.



If the machine does not work in the network environment, activate IPv6. Refer to the next section followed by.

Activating IPv6

The machine is provided with IPv6 feature on.

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 **TCP/IP (IPv6)** appears and press **OK**.
4. Press the left/right arrow until **IPv6 Activate** appears and press **OK**.
5. Press the left/right arrow until **On** appears and press **OK**.
6. Turn the machine off and turn it on again.
7. Reinstall your printer driver.

Setting IPv6 addresses

Machine supports the following IPv6 addresses for network printing and managements.

- **Link-local Address:** Self-configured local IPv6 address (Address starts with FE80).
- **Stateless Address:** Automatically configured IPv6 address by a network router.
- **Stateful Address:** IPv6 address configured by a DHCPv6 server.

- **Manual Address:** Manually configured IPv6 address by a user.

DHCPv6 address configuration (Stateful)

If you have a DHCPv6 server on your network, you can set one of the following option for default dynamic host configuration.

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 **TCP/IP (IPv6)** appears and press **OK**.
4. Press the left/right arrow until **DHCPv6 Config** appears and press **OK**.
5. Press the left/right arrow to access the required value.
 - **DHCPv6 Addr.:** Always use DHCPv6 regardless of router request.
 - **DHCPv6 Off:** Never use DHCPv6 regardless of router request.
 - **Router:** Use DHCPv6 only when requested by a router.
6. Press **OK**.

Manual address configuration

1. Start a web browser such as Internet Explorer that supports IPv6 addressing as a URL.
2. When the **SyncThru™ Web Service** window opens, move the mouse cursor on the **Settings** of the top menu bar and then click **Network Settings**.
3. Click **TCP/IPv6** on the left pane of the website.
4. Select the **Manual Address** check box. Then, the **Address/Prefix** text box is activated.
5. Enter the rest of address (ex:3FFE:10:88:194::AAAA. "A" is the hexadecimal 0 through 9, A through F).
6. Click the **Apply** button.

Using SyncThru™ Web Service

1. Start a web browser such as Internet Explorer that supports IPv6 addressing as a URL.
2. Select one of the IPv6 addresses (**Link-local Address, Stateless Address, Stateful Address, Manual Address**) from **Network Configuration Report** (See "Printing a network configuration report" on page 45).
3. Enter the IPv6 addresses (ex: http://[FE80::215:99FF:FE66:7701]).




Address must be enclosed in '[' ']' brackets.

wireless network setup (clx-3185fw/clx-3185wk only)

This chapter gives you step-by-step instructions for setting up the wireless network connected machine and software.

This chapter includes:

- Using a wireless network
- Setting a wireless network with WPS button on the control panel
- Setting a wireless network with USB cable
- Setting a wireless network with network cable

 For more information about network environment, network programs and Installing network connected machine's driver, refer to following chapters.

- See "Network environment" on page 44.
- See "Introducing useful network programs" on page 44.
- See "Setting a wireless network with USB cable" on page 52.
- See "Setting a wireless network with network cable" on page 57.

USING A WIRELESS NETWORK

Choosing your network connection

Typically, you can only have one connection between your computer and the machine at a time. There are two types of network connections to consider.

- Wireless network without an access point (Ad-Hoc mode)
- Wireless network with an access point (Infrastructure mode)

Printing a network configuration report

You can print **Network Configuration Report** from the machine's control panel that will show the current machine's network settings. This will help you to set up a network and troubleshoot problems.

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 **Network Info.** appears and press **OK**.
4. Press the left/right arrow until **Yes** appears and press **OK**.

Using this **Network Configuration Report**, you can find your machine MAC address and IP address.

For example:

- MAC Address:00:15:99:41:A2:78
- IP Address:192.0.0.192

IP addresses

Every device in a network has a unique numerical address called an **IP Address**. Your machine came with a Default IP address of 192.0.0.192, which you can verify by printing out **Network Configuration Report** or **Configuration Report**.

- **DHCP IP assignment:** Connect your machine to the network, and wait a few minutes for the DHCP server to assign an IP address to the machine. Then, print the **Network Configuration Report** as explained above. If the report shows that the IP address has changed, the assignment was successful. You will see the new IP address in the

- Resetting factory default values
- Completing the Installation
- Troubleshooting

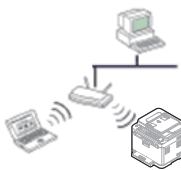

report.


- **Static IP assignment:** Use SetIP program to change the IP address from your computer (See "Setting IP address" on page 45).

In an office environment, we recommend that you contact a network administrator to set IP address for your machine.


Wireless network name and Network Key

Wireless networks require higher security. When an access point is first set up, a network name (SSID), the type of security used and a Network Key should be created for the network. Check this information before proceeding with the machine installation.

	Infrastructure mode This is an environment generally used for homes and SOHOs. This mode uses an access point to communicate with the wireless machine. <ul style="list-style-type: none">• See "Installing the machine on a wireless network with an Access Point (Windows)" on page 52.• See "Installing the machine on a wireless network with an Access Point (Macintosh)" on page 55.
	Ad-Hoc mode This mode does not use an access point, the wireless computer and wireless machine communicate directly. <ul style="list-style-type: none">• See "Installing the machine on an Ad-Hoc wireless network (Windows)" on page 54• See "Installing the machine on an Ad-Hoc wireless network (Macintosh)" on page 56

 After choosing your configuration, follow the simple directions for your computer operating system, but first locate the **Software CD** supplied with the machine before proceeding.

Installing a wireless network with the WPS button

If your machine and an access point (or wireless router) support Wi-Fi Protected Setup™ (WPS), you can easily configure the wireless network settings by pressing the **WPS** () button on the control panel (See "Setting a wireless network with WPS button on the control panel" on page 51).

Installing a wireless network with cables

You can install a wireless network to connect to the machine with either a USB cable or a network cable. For most users, we recommend using a USB cable with the program provided in the supplied software CD.

The following are two ways to install a wireless network with cables.


- **With a USB cable:** You can simply set up a wireless network using the program in the supplied software CD. Only Windows and Macintosh operating system are supported (See "Setting a wireless network with USB cable" on page 52).



You can also install a wireless network in Printer Settings Utility with a USB cable after installing driver (Windows and Macintosh operating system are supported).

- **With a network cable:** You can set up a wireless network using the SyncThru™ Web Service program (See "Setting a wireless network with network cable" on page 57).

SETTING A WIRELESS NETWORK WITH WPS BUTTON ON THE CONTROL PANEL


If your machine and an access point (or wireless router) support Wi-Fi Protected Setup™ (WPS), you can easily configure the wireless network settings by pressing the **WPS** () button on the control panel.

Items to prepare

You need to ensure you have the following items ready to use:

- Check if the access point (or wireless router) supports Wi-Fi Protected Setup™ (WPS).
- Check if your machine supports Wi-Fi Protected Setup™ (WPS).

Choosing your network connection

There are two methods to connect your machine to a wireless network by using the **WPS** () button on the control panel.

The **Push Button Configuration (PBC)** method allows you to connect your machine to a wireless network by pressing both the **WPS** button on the control panel of your machine and the **WPS (PBC)** button on a Wi-Fi Protected Setup™ (WPS)-enabled access point (or wireless router) respectively.

The **Personal Identification Number (PIN)** method helps you connect your machine to a wireless network by entering the supplied PIN information on a Wi-Fi Protected Setup™ (WPS)-enabled access point (or wireless router).

Factory default in your machine is **PBC** mode, which is recommended for a typical wireless network environment.

- Access point (or wireless router) that supports WPS (Wi-Fi Protected Setup™) has the symbol shown below.




Changing WPS mode

Factory default in your machine is **PBC** mode. To change WPS mode, follow the following steps.

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 **Wireless** appears and press **OK**.
4. Press the left/right arrow until **WPS Setting** appears and press **OK**.

5. Press the left/right arrow until the WPS mode you want appears and press **OK**.


- **PBC mode:** Pressing both the **WPS** () button on the control panel of your machine and the **WPS (PBC)** button on a Wi-Fi Protected Setup™ (WPS)-enabled access point (or wireless router) respectively, you can easily connect your machine to a wireless network.
- **PIN mode:** Entering the supplied **PIN** number on a Wi-Fi Protected Setup™ (WPS)-enabled access point (or wireless router), you can manually connect your machine to a wireless network.

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

Setting a wireless network in PBC mode



Factory default in your machine is **PBC** mode.

Connecting to a wireless network in PBC mode

To connect your machine to the wireless network in PBC mode, follow the following steps. You also need to check the **WPS** () button on the control panel and the messages on the display.




You can check the status of the wireless network connection (See "Understanding the Status LED" on page 36).


1. Press the **WPS** () button on the control panel.
2. **Push WPS on AP within 02:00:** The machine starts waiting for up to two minutes until you press the **WPS (PBC)** button on the access point (or wireless router).
3.  : Press the **WPS (PBC)** button on the access point (or wireless router) within two minutes.
4. **Connecting:** The machine is connecting to the access point (or wireless router).
5. **Connected:** When the machine is successfully connected to the wireless network, the blue wireless LED light stays on.
 - **AP SSID:** After completing the wireless network connection process, AP's SSID information appears on the display.



If the machine fails to connect to the wireless network, the **Connecting Failed** and the **Wait 2 minutes for Reconnecting** messages appear in turn on the display. Then, the machine tries to re-connect to the wireless network.

Re-connecting to a wireless network in PBC mode

If you press the **WPS** () button on the control panel when the wireless function is off, the machine automatically tries to re-connect to the access point (or wireless router) with the previously used wireless connection settings and address.


1. **Connecting:** If you press the **WPS** () button on the control panel when the wireless function is off, the machine automatically tries to re-connect to the access point (or wireless router) with the previously used wireless connection settings and address.
2. **Connected:** When the machine is successfully connected to the wireless network, the blue wireless LED light stays on.
 - **AP SSID:** After completing the wireless network connection process, AP's SSID information appears on the display.




If there is no previously used access point (or wireless router), or the network settings have been changed, the **Connecting Failed** and the **Wait 2 minutes for Reconnecting** messages appear in turn on the display, and then the machine tries to re-connect to the wireless network. After the second attempt to connect, the machine stops the wireless connection function if

the machine fails to get the wireless connection. Try again to connect to the wireless network after solving the connection problem.

Canceling a wireless network connection process in PBC mode

To cancel the wireless network connection function when the machine is connecting to the access point (or wireless router) in **PBC** mode, press the **WPS** () button on the control panel again. The **Connecting Canceled** and the **Wait 2 minutes for Reconnecting** messages appear in order on the display.

Disconnecting a wireless network connection in PBC mode


To disconnect the wireless network connection, press the **WPS** () button on the control panel again.



- **When the access point (Wi-Fi Network) is in idle mode:** The **Disconnected** message appears on the display. The machine is returned to ready mode.
- **When the access point (Wi-Fi Network) is being used:** The **Wait Job to Finish** message appears on the display. The machine waits until the current job is finished. Then, the wireless network connection is automatically disconnected. The machine is returned to ready mode.


Setting a wireless network in PIN mode

Factory default in your machine is **PBC** mode. To change to **PIN** mode, refer to "Changing WPS mode" on page 51.


Connecting a wireless network in PIN mode


To connect to the wireless network in PIN mode, follow the following steps. You also need to check the status of the **WPS** () button and the wireless LED.

1. Press the **WPS** () button on the control panel.
2. **Enter xxxx-xxxx on AP:02:00:** Eight-digit PIN number appears on the display. Then, the machine starts waiting for up to two minutes until you enter the supplied PIN number on the access point (or wireless router).
3.  : Enter the supplied PIN number on the access point (or wireless router) within two minutes.
4. **Connecting:** The machine is connecting to the wireless network.
5. **Connected:** When the machine is successfully connected to the wireless network, the blue wireless LED light stays on.
 - **AP SSID:** After completing the wireless network connection process, AP's SSID information appears on the display.

 If the machine fails to connect to the wireless network, the **Connecting Failed** and the **Wait 2 minutes for Reconnecting** messages appear in turn on the display. Then, the machine tries to re-connect to the wireless network.


Re-connecting to a wireless network in PIN mode

If you press the **WPS** () button on the control panel when the wireless function is off, the machine automatically tries to re-connect to the access point (or wireless router) with the previously used wireless connection settings and address.


1. **Connecting:** If you press the **WPS** () button on the control panel when the wireless function is off, the machine automatically

tries to re-connect to the access point (or wireless router) with the previously used wireless connection settings and address.


2. **Connected:** When the machine is successfully connected to the wireless network, the blue wireless LED light stays on.
 - **AP SSID:** After completing the wireless network connection process, AP's SSID information appears on the display.

 If there is no previously used access point (or wireless router), or the network settings have been changed, the **Connecting Failed** and the **Wait 2 minutes for Reconnecting** messages appear in turn on the display, and then the machine tries to re-connect to the wireless network. After the second attempt to connect, the machine stops the wireless connection function if the machine fails to get the wireless connection. Try again to connect to the wireless network after solving the connection problem.

Canceling a wireless network connection process in PIN mode


To cancel the wireless network connection function when the machine is connecting to the access point (or wireless router) in **PIN** mode, press the **WPS** () button on the control panel again. The **Connecting Canceled** and the **Wait 2 minutes for Reconnecting** messages appear in order on the display.

Disconnecting a wireless network connection in PIN mode

To disconnect the wireless network connection, press the **WPS** () button on the control panel again.

- **When the access point (Wi-Fi Network) is in idle mode:** The **Disconnected** message appears on the display. The machine is returned to ready mode.
- **When the access point (Wi-Fi Network) is being used:** The **Wait Job to Finish** message appears on the display. The machine waits until the current job is finished. Then, the wireless network connection is automatically disconnected. The machine is returned to ready mode.

SETTING A WIRELESS NETWORK WITH USB CABLE

 Refer to your network administrator or the person that set up your wireless network for information about your network configuration.

Installing the machine on a wireless network with an Access Point (Windows)

Items to prepare

Ensure you have next items ready.

- Access point
- Network-connected computer
- **Software CD** that provided with your machine
- The machine installed with a wireless network interface
- USB cable

Creating the infrastructure network in Windows

When the items are ready, follow below steps:


1. Check whether the USB cable is connected to the machine.
2. Turn on your computer, access point and machine.

3. Insert the supplied software CD into your CD-ROM drive.
 - The software CD should automatically run and an installation window appears.
 - If the installation window does not appear, click **Start** and then **Run**. Type X:\Setup.exe, replacing "X" with the letter which represents your CD-ROM drive. Click **OK**.
 - If you use Windows Vista, Windows 7 or Windows 2008 Server R2 click **Start > All programs > Accessories > Run**. Type X:\Setup.exe replacing "X" with the letter which represents your CD-ROM drive and click **OK**.
 - If the **AutoPlay** window appears in Windows Vista, Windows 7 or Windows 2008 Server R2, click **Run Setup.exe** in **Install or run program** field, and click **Continue** or **Yes** in the **User Account Control** windows.


4. Select the **Wireless Setting and Installation** option.

5. Read **License Agreement**, and select **I accept the terms of the License Agreement**. Then, click **Next**.


6. The software searches the wireless network.

 If the searching has failed, you may check if the USB cable is connected between the computer and machine properly, and follow the instruction on the window.

7. After searching, the window shows the wireless network devices. Select the name (SSID) of access point you are using, and click **Next**.

 If you cannot find out the network name you want to choose, or if you want to set the wireless configuration manually, click **Advanced Setting**.

- **Enter the wireless Network Name:** Type the SSID of access point you want (SSID is case-sensitive).
- **Operation Mode:** Select **Infrastructure**.
- **Authentication:** Select an authentication type.
Open System: Authentication is not used, and encryption may or may not be used depending on the need for data security.
Shared Key: Authentication is used. A device that has a proper WEP key can access the network.
WPA Personal or WPA2 Personal: Select this option to authenticate the print server based on WPA Pre-Shared Key. This uses a shared secret key (generally called Pre Shared Key passphrase), which is manually configured on the access point and each of its clients.
- **Encryption:** Select the encryption. (None, WEP64, WEP128, TKIP, AES, TKIP AES)
- **Network Key:** Enter the encryption network key value.
- **Confirm Network Key:** Confirm the encryption network key value.
- **WEP Key Index:** If you are using the WEP Encryption, select the appropriate **WEP Key Index**.

 The wireless network security window appears when the access point has security setting.

The wireless network security window appears. The window may differ according to its security mode, WEP or WPA.

• **In case of WEP**

Select **Open System** or **Shared Key** for the authentication and enter WEP security key. Click **Next**.

WEP (Wired Equivalent Privacy) is a security protocol preventing unauthorized access to your wireless network.

WEP encrypts the data portion of each packet exchanged on a wireless network using a 64-bit or 128-bit WEP encryption key.

• **In case of WPA**

Enter the WPA shared key and click **Next**.

WPA authorizes and identifies users based on a secret key that changes automatically at regular intervals. WPA also uses TKIP (Temporal Key Integrity Protocol) and AES (Advanced Encryption Standard) for data encryption.

8. The window shows the wireless network setting, and check if settings are right. Click **Next**.

• **For the DHCP method**

If the IP address assignment method is DHCP, check if DHCP is shown in the window. However, if it shows Static, click **Change TCP/IP** to change the assignment method to DHCP.

• **For the Static method**

If the IP address assignment method is Static, check if Static is shown in the window. However, if it shows DHCP, click **Change TCP/IP** to enter the IP address and other network configuration values for the machine. Before entering the IP address for the machine, you must know the computer's network configuration information. If the computer is set to DHCP, you must contact the network administrator to get the static IP address.

Example)

If computer's network information is as below:

- IP address: 169.254.133.42
- Subnet Mask: 255.255.0.0

Machine's network information should be as below:

- IP address: 169.254.133. 43 (Use computer's IP address, with changed last three digits.)
- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1 (Change the last three digits from IP address of your machine to 1.)

9. When the wireless network setting is completed, disconnect the USB cable between the computer and machine. Click **Next**.

10. The **Wireless Network Setting Complete** window appears.

Select **Yes** if you accept the current settings and continue the setup procedure.

Select **No** if you want to return to the beginning screen.

Then, click **Next**.

11. Click **Next** when the **Confirm Printer Connection** window appears.

12. Select the components to be installed. Click **Next**.

After selecting the components, you can also change the machine name, set the machine to be shared on the network, set the machine as the default machine, and change the port name of each machine. Click **Next**.

13. After the installation is finished, a window asking you to print a test page appears. If you want to print a test page, click **Print a test page**.

Otherwise, just click **Next** and go to step 16.

14. If the test page prints out correctly, click **Yes**.

If not, click **No** to reprint it.

15. To register as a user of the machine in order to receive information from Samsung, click **On-line Registration**.

16. Click **Finish**.

Installing the machine on an Ad-Hoc wireless network (Windows)

If you do not have an Access Point (AP), you may still connect the machine wirelessly to your computer by setting up an Ad-Hoc wireless network by following the simple steps below.

Items to prepare


Ensure you have next items ready.

- Network-connected computer
- **Software CD** provided with your machine
- The machine installed with a wireless network interface
- USB cable

Creating the Ad-Hoc network in Windows

When the items are ready, follow below steps:

1. Check whether the USB cable is connected to the machine.
2. Turn on your computer and the wireless network machine.
3. Insert the supplied software CD into your CD-ROM drive.
 - The software CD should automatically run and an installation window appear.
 - If the installation window does not appear, click **Start** and then **Run**. Type **X:\Setup.exe**, replacing "X" with the letter which represents your CD-ROM drive. Click **OK**.
 - If you use Windows Vista, Windows 7 or Windows 2008 Server R2 click **Start > All programs > Accessories > Run**. Type **X:\Setup.exe** replacing "X" with the letter which represents your CD-ROM drive and click **OK**.
 - If the **AutoPlay** window appears in Windows Vista, Windows 7 or Windows 2008 Server R2, click **Run Setup.exe** in **Install or run program** field, and click **Continue** or **Yes** in the **User Account Control** windows.
4. Select the **Wireless Setting and Installation** option.
5. Read the **License Agreement**, and select **I accept the terms of the License Agreement**. Then, click **Next**.
6. The software searches the wireless network.


 If the software has failed to search the network, check if the USB cable is connected properly between the computer and machine, and follow the instruction on the window.

7. After searching the wireless network, a list of wireless network your machine has searched appears.

If you want to use the Samsung default ad-hoc setting, select the last wireless network on the list, which **Network Name(SSID)** is **airportthru** and **Signal** is **Printer Self Network**.

Then, click **Next**.

If you want to use other ad-hoc settings, select other wireless network from the list.

 If you cannot find out the network name you want to choose, or if you want to set the ad-hoc configuration manually, click **Advanced Setting**.

- **Enter the wireless Network Name:** Type in the SSID name you want (SSID is case-sensitive).
- **Operation Mode:** Select **Ad-hoc**.
- **Channel:** Select the channel. (**Auto Setting** or 2412 MHz to 2467 MHz)
- **Authentication:** Select an authentication type.
Open System: Authentication is not used, and encryption may or may not be used depending on the need for data

security.

Shared Key: Authentication is used. A device that has a proper WEP key can access the network.

- **Encryption:** Select the encryption. (None, WEP64, WEP128)
- **Network Key:** Enter the encryption network key value.
- **Confirm Network Key:** Confirm the encryption network key value.
- **WEP Key Index:** If you are using the WEP Encryption, select the appropriate **WEP Key Index**.



The wireless network security window appears when the ad-hoc network has security setting.

The wireless network security window appears. Select **Open System** or **Shared Key** for the authentication and click **Next**.

- **WEP (Wired Equivalent Privacy)** is a security protocol preventing unauthorized access to your wireless network. WEP encrypts the data portion of each packet exchanged on a wireless network using a 64-bit or 128-bit WEP encryption key.

8. The window shows the wireless network setting, and check if settings are right. Click **Next**.



Before entering the IP address for the machine, you must know the computer's network configuration information. If the computer's network configuration is set to DHCP, the wireless network setting should also be DHCP. Likewise, if the computer's network configuration is set to Static, the wireless network setting should also be Static.

If your computer is set to DHCP and you want to use Static wireless network setting, you must contact the network administrator to get the static IP address.

- **For the DHCP method**

If the IP address assignment method is DHCP, check if DHCP is shown in the **Wireless Network Setting Confirm** window. However, if it shows Static, click **Change TCP/IP** to change the assignment method to **Receive IP address automatically (DHCP)**.

- **For the Static method**

If the IP address assignment method is Static, check if Static is shown in the **Wireless Network Setting Confirm** window. However, if it shows DHCP, click **Change TCP/IP** to enter the IP address and other network configuration values for the machine.

Example)

If computer's network information is as below:

- IP address: 169.254.133.42
- Subnet Mask: 255.255.0.0

Machine's network information should be as below:

- IP address: 169.254.133. 43 (Use the computer's IP address, with changed last three digits.)
- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1 (Change the last three digits from IP address of your machine to 1.)

9. When the wireless network setting is completed, disconnect the USB cable between the computer and machine. Click **Next**.



If the **Change PC Network Setting** window appears, follow the steps on the window.

Click **Next** if you are finished the computer's wireless network settings.

If you set the computer's wireless network as DHCP, it will take several minutes to receive the IP address.

10. The Wireless Network Setting Complete window appears.

Select **Yes** if you accept the current settings and continue the setup procedure.

Select **No** if you want to return to the beginning screen.

Then, click **Next**.

11. Click Next when the Confirm Printer Connection window appears.

12. Select the components to be installed. Click Next.

After selecting the components, you can also change the machine name, set the machine to be shared on the network, set the machine as the default machine, and change the port name of each machine. Click **Next**.

13. After the installation is finished, a window asking you to print a test page appears. If you want to print a test page, click Print a test page.

Otherwise, just click **Next** and go to step 16.

14. If the test page prints out correctly, click Yes.

If not, click **No** to reprint it.

15. To register as a user of the machine in order to receive information from Samsung, click On-line Registration.

16. Click Finish.

13. Select the Wireless Setting and Installation option and then click OK.

14. The software searches the wireless network.



If the searching has failed, you may check if the USB cable is connected between the computer and machine properly, and follow the instruction on the window.

15. After searching, the window shows the wireless network devices. Select the name (SSID) of access point you are using and click Next.



If you cannot find out the network name you want to choose, or if you want to set the wireless configuration manually, click **Advanced Setting**.

- **Enter the wireless Network Name:** Type the SSID of access point you want (SSID is case-sensitive).
- **Operation Mode:** Select **Infrastructure**.
- **Authentication:** Select an authentication type.
 - Open System:** Authentication is not used, and encryption may or may not be used, depending on the need for data security.
 - Shared Key:** Authentication is used. A device that has a proper WEP key can access the network.
 - WPA Personal or WPA2 Personal:** Select this option to authenticate the print server based on WPA Pre-Shared Key. This uses a shared secret key (generally called Pre Shared Key passphrase) which is manually configured on the access point and each of its clients.
- **Encryption:** Select the encryption. (None, WEP64, WEP128, TKIP, AES, TKIP AES)
- **Network Key:** Enter the encryption network key value.
- **Confirm Network Key:** Confirm the encryption network key value.
- **WEP Key Index:** If you are using the WEP Encryption, select the appropriate **WEP Key Index**.



The wireless network security window does appear when the access point has security setting.

The wireless network security window appears. The window may differ according to its security mode, WEP or WPA.

• **In case of WEP**

Select **Open System** or **Shared Key** for the authentication and enter WEP security key. Click **Next**.

WEP (Wired Equivalent Privacy) is a security protocol preventing unauthorized access to your wireless network. WEP encrypts the data portion of each packet exchanged on a wireless network using a 64-bit or 128-bit WEP encryption key.

• **In case of WPA**

Enter the WPA shared key and click **Next**.

WPA authorizes and identifies users based on a secret key that changes automatically at regular intervals. WPA also uses TKIP (Temporal Key Integrity Protocol) and AES (Advanced Encryption Standard) for data encryption.

16. The window shows the wireless network setting and check if settings are right. Click Next.

• **For the DHCP method**

If the IP address assignment method is DHCP, check if DHCP is shown in the window. However, if it shows Static, click **Change TCP/IP** to change the assignment method to DHCP.

Installing the machine on a wireless network with an Access Point (Macintosh)

Items to prepare

Ensure you have next items ready.

- Access point
- Network-connected computer
- **Software CD** that provided with your machine
- The machine installed with a wireless network interface
- USB cable

Creating the infrastructure network in Macintosh

When the items are ready, follow below steps:

1. Check whether the USB cable is connected to the machine.
2. Turn on your computer, access point and machine.
3. Insert the supplied software CD into your CD-ROM drive.
4. Double-click the CD-ROM icon that appears on your Macintosh desktop.
5. Double-click the **MAC_Installer** folder.
6. Double-click the **Installer OS X** icon.
7. Enter the password and click **OK**.
8. The Samsung Installer window opens. Click **Continue**.
9. Read the license agreement and click **Continue**.
10. Click **Agree** to agree to the license agreement.
11. Select **Easy Install** and click **Install**. **Easy Install** is recommended for most users. All components necessary for machine operations will be installed.
If you select **Custom Install**, you can choose individual components to install.
12. When the message which warns that all applications will close on your computer appears, click **Continue**.

- **For the Static method**

If the IP address assignment method is Static, check if Static is shown in the window. However, if it shows DHCP, click **Change TCP/IP** to enter the IP address and other network configuration values for the machine. Before entering the IP address for the machine, you must know the computer's network configuration information. If the computer is set to DHCP, you must contact the network administrator to get the static IP address.

Example)

If computer's network information is as below:

- IP address: 169.254.133.42
- Subnet Mask: 255.255.0.0

Machine's network information should be as below:

- IP address: 169.254.133. 43 (Use computer's IP address, with changed last three digits.)
- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1 (Change the last three digits from IP address of your machine to 1.)

- The wireless network is connecting according to the network configuration.
- When the wireless network setting is completed, disconnect the USB cable between the computer and machine. Click **Next**.
- The Installation process is being executed.
- The **Fax Queue Creator** window appears during the installation process.
 - For CLX-3185WK, click **Cancel** to go to the next step.
 - For CLX-3185FW, select your machine name from the **Printer Name** list and click **Create**. When the confirmation window appears, click **OK**.
- Click **Continue** on the **Read Me** window.
- After the installation is finished, click **Restart**.

Installing the machine on an Ad-Hoc wireless network (Macintosh)

If you do not have a Access Point (AP), you may still connect the machine wirelessly to your computer by setting up an Ad-Hoc wireless network by following these simple directions.

Items to prepare

Ensure you have next items ready.

- Network-connected computer
- **Software CD** that provided with your machine
- The machine installed with a wireless network interface
- USB cable

Creating the Ad-Hoc network in Macintosh

When the items are ready, follow below steps:

- Check whether the USB cable is connected to the machine.
- Turn on your computer and machine.
- Insert the supplied software CD into your CD-ROM drive.
- Double-click the CD-ROM icon that appears on your Macintosh desktop.
- Double-click the **MAC_Installer** folder.
- Double-click the **Installer OS X** icon.
- Enter the password and click **OK**.
- The Samsung Installer window opens. Click **Continue**.

- Read the license agreement and click **Continue**.

- Click **Agree** to agree to the license agreement.

- Select **Easy Install** and click **Install**. **Easy Install** is recommended for most users. All components necessary for machine operations will be installed.

If you select **Custom Install**, you can choose individual operations will be installed.

- When the message which warns that all applications will close on your computer appears, click **Continue**.

- Select the **Wireless Setting and Installation** option and then click **OK**.

- The software searches the wireless network.



If the searching has failed, you may check if the USB cable is connected between the computer and machine properly, and follow the instruction on the window.

- After searching the wireless network, a list of wireless network your machine has searched appears.

If you want to use the Samsung default ad-hoc setting, select the last wireless network on the list, which **Network Name(SSID)** is **airportthru** and **Link Quality** is **Printer Self Network**.

Then, click **Next**.

If you want to use other ad-hoc settings, select other wireless network from the list.



If you cannot find out the network name you want to choose, or if you want to set the ad-hoc configuration manually, click **Advanced Setting**.

- **Enter the wireless Network Name:** Type in the SSID name you want (SSID is case-sensitive).
- **Operation Mode:** Select **Ad-hoc**.
- **Channel:** Select the channel. (**Auto Setting** or 2412 MHz to 2467 MHz).
- **Authentication:** Select an authentication type.
 - Open System:** Authentication is not used, and encryption may or may not be used, depending on the need for data security.
 - Shared Key:** Authentication is used. A device that has a proper WEP key can access the network.
- **Encryption:** Select the encryption. (None, WEP64, WEP128)
- **Network Key:** Enter the encryption network key value.
- **Confirm Network Key:** Confirm the encryption network key value.
- **WEP Key Index:** If you are using the WEP Encryption, select the appropriate **WEP Key Index**.



The wireless network security window appears when the ad-hoc network has security setting.

The wireless network security window appears. Select **Open System** or **Shared Key** for the authentication and click **Next**.

- **WEP (Wired Equivalent Privacy)** is a security protocol preventing unauthorized access to your wireless network. WEP encrypts the data portion of each packet exchanged on a wireless network using a 64-bit or 128-bit WEP encryption key.

- The window which shows the wireless network setting appears. Check the settings and click **Next**.



Before entering the IP address for the machine, you must know the computer's network configuration information. If the computer's network configuration is set to DHCP, the wireless network setting should also be DHCP. Likewise, if the computer's network configuration is set to Static, the wireless network setting should also be Static.

If your computer is set to DHCP and you want to use Static wireless network setting, you must contact the network administrator to get the static IP address.

- **For the DHCP method**

If the IP address assignment method is DHCP, check if DHCP is shown in the **Wireless Network Setting Confirm** window. However, if it shows Static, click **Change TCP/IP** to change the assignment method to **Receive IP address automatically (DHCP)**.

- **For the Static method**

If the IP address assignment method is Static, check if Static is shown in the **Wireless Network Setting Confirm** window. However, if it shows DHCP, click **Change TCP/IP** to enter the IP address and other network configuration values for the machine.

Example)

If computer's network information is as below:

- IP address: 169.254.133.42
- Subnet Mask: 255.255.0.0

Machine's network information should be as below:

- IP address: 169.254.133. 43 (Use computer's IP address, with changed last three digits.)
- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1 (Change the last three digits from IP address of your machine to 1.)

- The wireless network is connecting according to the network configuration.
- When the wireless network setting is completed, disconnect the USB cable between the computer and machine. Click **Next**.
- The Installation process is being executed.
- The **Fax Queue Creator** window appears during the installation process.
 - For CLX-3185WK, click **Cancel** to go to the next step.
 - For CLX-3185FW, select your machine name from the **Printer Name** list and click **Create**. When the confirmation window appears, click **OK**.
- Click **Continue** on the **Read Me** window.
- After the installation is finished, click **Restart**.

SETTING A WIRELESS NETWORK WITH NETWORK CABLE

Your machine is a network compatible machine. To enable your machine to work with your network, you will need to perform some configuration procedures.



Refer to your network administrator, or the person that set up your wireless network for information about your network configuration.

Preparing items

Ensure you have next items ready.

- Access point
- Network-connected computer
- **Software CD** that provided with your machine
- Wireless network printer (your machine)
- Network cable

Setting IP address

First, you have to set up an IP address for network printing and managements. In most cases, a new IP address will be automatically assigned by a DHCP (Dynamic Host Configuration Protocol) server located on the network.

In a few situations, the IP address must be set manually. This is called a static IP and is often required in a corporate Intranets for security reasons.

- **DHCP IP assignment:** Connect your machine to the network, and wait a few minutes for the DHCP server to assign an IP address to the machine. Then, print the **Network Configuration Report** as explained above. If the report shows that the IP address has changed, the assignment was successful. You will see the new IP address in the report. (See "Printing a network configuration report" on page 50.)
- **Static IP assignment:** Use SetIP program to change the IP address from your computer.

In an office environment, we recommend that you contact a network administrator to set this address for you.

IP setting using SetIP Program (Windows)

This program is for manually setting the network IP address of your machine using its MAC address to communicate with the machine. A MAC address is the hardware serial number of the network interface and can be found in the **Network Configuration Report**.


For using SetIP program, disable the computer firewall before continuing by performing the following:

- Open **Start > All programs > Control Panel**.
- Double-click **Security Center**.
- Click **Windows Firewall**.
- Disable the firewall.

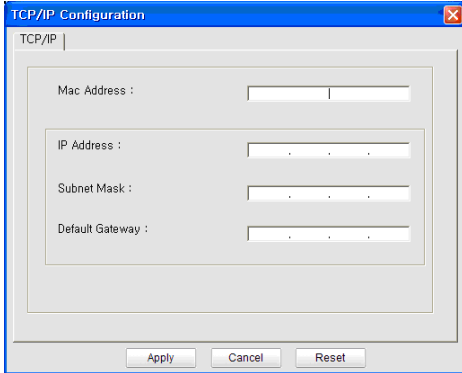
Installing the program

- Insert the software CD provided with your machine. When the driver CD runs automatically, close that window.
- Start Windows Explorer and open the X drive. (X represents your CD-ROM drive.)
- Double-click **Application > SetIP**.
- Double-click **Setup.exe** to install this program.
- Click **OK**. If necessary, select a language from the drop-down list.
- Follow the instructions in the window and complete the installation.

Starting the program

- Connect your machine to the network with a network cable.
- Turned on the machine.
- From the Windows **Start** menu, select **All Programs > Samsung Printers > SetIP > SetIP**.
- Click on the  icon (third from left) in the SetIP window to open the TCP/IP configuration window.

5. Enter the machine's new information into the configuration window as follows. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.



- **MAC Address:** Find the machine's MAC address from the **Network Configuration Report** and enter it without the colons. For example, 00:15:99:29:51:A8 becomes 0015992951A8.
 - **IP Address:** Enter a new IP address for your printer. For example, if your computer's IP address is 192.168.1.150, enter 192.168.1.X. (X is number between 1 and 254 other than the computer's address.)
 - **Subnet Mask:** Enter a Subnet Mask.
 - **Default Gateway:** Enter a Default Gateway.
6. Click **Apply**, and then click **OK**. The machine will automatically print the **Network Configuration Report**. Confirm that all the settings are correct.
 7. Click **Exit** to close the SetIP program.
 8. If necessary, restart the computer's firewall.


IP setting using SetIP Program (Macintosh)

For using SetIP program, disable the computer firewall before continuing by performing the following:

-  The path and UIs may differ by Macintosh OS version. Refer to the Macintosh OS manual.

1. Open **System Preferences**.
2. Click **Security**.
3. Click the **Firewall** menu.
4. Turn firewall off.

-  The following instructions may vary for your model.

1. Connect your machine to the network with a network cable.
2. Insert the Installation CD-ROM, and open the disk window, select **MAC_Installer > MAC_Printer > SetIP > SetIPApplet.html**.
3. Double-click the file and **Safari** will automatically open, then select **Trust**. The browser will open the **SetIPApplet.html** page that shows the printer's name and IP address information.
4. Click on the  icon (third from left) in the SetIP window to open the TCP/IP configuration window.
5. Enter the machine's new information into the configuration window as follows. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.
 - **MAC Address:** Find the machine's MAC address from the **Network Configuration Report** and enter it without the colons.

For example, 00:15:99:29:51:A8 becomes 0015992951A8.

- **IP Address:** Enter a new IP address for your printer. For example, if your computer's IP address is 192.168.1.150, enter 192.168.1.X. (X is number between 1 and 254 other than the computer's address.)
 - **Subnet Mask:** Enter a Subnet Mask.
 - **Default Gateway:** Enter a Default Gateway.
6. Select **Apply**, then **OK**, and **OK** again. The printer will automatically print the configuration report. Confirm that all the settings are correct. **Quit Safari**. You may close and eject the installation CD-ROM. If necessary, restart the computer's firewall. You have successfully changed the IP address, subnet mask, and gateway.

Configuring the machine's wireless network

Before starting, you will need to know the network name(SSID) of your wireless network and the network key if it is encrypted. This information was set when the wireless router(access point) was installed. If you do not know about your wireless environment, please ask the person who has set up your network.

To configure wireless parameters, you can use **SyncThru™ Web Service**.

Using SyncThru™ Web Service


Before starting the wireless parameter configuration, make sure cable connection status.

1. Check whether the network cable is connected to the machine. If not, connect the machine with a standard network cable.
2. Start a web browser such as Internet Explorer, Safari or Firefox and enter your machine's new IP address in the browser window.

For example:



3. Click **Go** to access the SyncThru™ Web Service.
4. Click **Login** on the upper left of the website. A **Login** page appears.
5. 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.
 - **ID:** admin
 - **Password:** sec00000
6. When the **SyncThru™ Web Service** window opens, click **Settings > Network Settings**.
7. Click **Wireless > Wizard**.

-  **Wizard** will help you setup the wireless network configuration. However, if you want to set the wireless network directly, select **Custom**.

8. Select the one **Network Name(SSID)** in the list.
 - **SSID:** SSID (Service Set Identifier) is a name that identifies a wireless network. Access points and wireless devices attempting to connect to a specific wireless network must use the same SSID. The SSID is case-sensitive.
 - **Operation Mode:** **Operation Mode** refers to the type of wireless connections (See "Wireless network name and Network Key" on page 50).
 - **Ad-hoc:** Allows wireless devices to communicate directly with each other in a peer-to-peer environment.
 - **Infrastructure:** Allows wireless devices to communicate with each other through an access point.



If your network's **Operation Mode** is **Infrastructure**, select the SSID of the access point. If the **Operation Mode** is **Ad-hoc**, select the machine's SSID. Note that "airportthru" is the default SSID of your machine.

9. Click **Next**.

If wireless security setting window appears, enter the registered password (network key) and click **Next**.

10. The confirmation window appears, please check your wireless setup. If the setup is right, click **Apply**.



Disconnect the network cable (standard or network). Your machine should then start communicating wirelessly with the network. In case of Ad-hoc mode, you can use a wireless LAN and wired LAN simultaneously.

RESETTING FACTORY DEFAULT VALUES

Should it become necessary to reset the Samsung printer to its factory default settings, please use the following steps. Connect the machine to your network, or you may connect the machine directly to a computer using the special network cable.



If you cannot connect the machine to a computer from its former network, it must be temporarily assigned to a new Ad-Hoc network to access the SyncThru™ web page. After you have established a direct link to the machine, use the special network cable and follow these instructions to reset the machine to the factory defaults.

Resetting the machine to factory default settings (Windows)

1. Connect the special network cable between the machine and the PC.
2. Open a browser such as Internet Explorer and enter the IP address of your machine. The machine's **SyncThru™ Web Service** page will open.
3. Select **Settings > Network Settings** in the top menu bar.
4. Select **Restore Default** in the left side bar, and select the **Clear** button next to **Factory Default** (or **Network**). Click **OK** in each of the following three windows that pop up.
5. Disconnect the printer from the network, **recycle the power**, and print a Network Configuration Report to confirm the reset. This will reset all the parameters and the printer will no longer be on the network.

Resetting the machine to factory default settings (Macintosh)

1. Connect the special network cable between the printer and the Macintosh.
2. Open **System Preferences** and select **Print & Fax** settings. Select the printer you want to reset, opening the **Print Queue**, and select the **Utility** icon in the top menu bar. **Safari** will open the printer's **SyncThru™ Web Service** page.
3. Click **Settings > Network Settings** in the top menu bar.
4. Click **Restore Default** in the left side bar, and click the **Clear** button next to **Factory Default** (or **Network**). Click **OK** in each of the following three windows that pop up.
5. Disconnect the printer from the network, **recycle the power**, and print a Network Configuration Report to confirm the reset. This will reset all the parameters and the printer will no longer be on the network.

Network parameter setting

You can also set up the various network settings through the network administration programs such as SyncThru™ Web Admin Service and SyncThru™ Web Service.

COMPLETING THE INSTALLATION

After you have installed your Samsung wireless network printer, print another copy of the Network Configuration Report and keep it for future reference. You are now ready to use your new Samsung wireless printer on your network.

TROUBLESHOOTING



Solving problems that might occur during wireless setting and installing the machine driver

Wireless network problems

If problems occur while using the machine on a network, check the followings.

Printer Not Found

- Your computer or machine may not turn on. Turn on your computer or machine.
- USB cable is not connected between your computer and machine. Connect machine to your computer using a USB cable.
- The machine does not support wireless network. Check the User's Guide included on the software CD supplied with your machine and prepare a wireless network machine.

Connecting Failure - Not Found SSID

- The machine is unable to search network name (SSID), which is you selected or entered name. Check the network name (SSID) on your access point and re-try to connect.
- Your access point is not turned on. Turn on your access point.

Connecting Failure - Invalid Security

- You configured security incorrectly. Check the configured security on your access point and machine.

Connection Failure - General Connection Error

- Your computer is not receiving a signal from your machine. Check the USB cable and your machine power.

Connection Failure - Connected Wired Network

- Your machine is connected with wired network cable. Remove the wired network cable from your machine.

PC Connecting Error

- The configured network address is unable to connect between your computer and machine.
 - For **DHCP** network environment
The machine receives the IP address automatically (DHCP) when the computer is configured DHCP.
 - For **Static** network environment
The machine uses the static address when the computer is configured with the static address.
If your computer is configured with the following addresses:
 - IP address: 192.168.1.100

- Subnet address: 255.255.255.0
- Gateway address: 192.168.1.1

Type in the following addresses for your machine:

- IP address: 192.168.1.101
- Subnet address: 255.255.255.0
- Gateway address: 192.168.1.1

Many devices can interfere with the wireless signal, including baby monitors, motors, cordless phones, security system cameras, other wireless networks, and some Bluetooth devices.

Solving other problems

If problems occur while using the machine on a network, check the followings.



For information on access point (or wireless router), refer to its own user's guide.

- Your computer, access point or machine may not be turned on. Check if they are powered on.
- Check the wireless reception around the machine. If the reception is far from the machine or there is an obstacle, you might have difficulty receiving the signal.
- Cycle the power for access point (or wireless router), machine and computer. Sometimes cycling the power can recover network communication.
- Check whether firewall software (V3 or Norton) is blocking the communication.
If the computer and the machine is connected on a same network it cannot be searched, firewall software might be blocking the communication. Refer to the user's guide for the software to turn it off and try searching the machine again.
- Check whether the machine's IP address is allocated correctly. You can check the IP address by printing the network configuration report.
- Check whether access point (or wireless router) has a configured security (password). If it has a password, refer to the access point (or wireless router) administrator.
- Check whether the machine's IP address. Reinstall the machine driver and change the settings to connect to the machine on the network. Due to the characteristics of DHCP, the allocated IP address could change if the machine is not used for a long time or if the access point has been reset.
- Check the wireless environment. You might not be able to connect to the network in the infrastructure environment where you need to type in a user's information before connecting to access point (or wireless router).
- This machine only supports IEEE 802.11 b/g/n and Wi-Fi. Other wireless communication (Bluetooth) is not supported.
- When using the Ad-hoc mode, for operating systems such as Windows Vista, you might need to set the wireless connection setting every time you use the wireless machine.
- You cannot use infrastructure mode and Ad-hoc mode at the same time for Samsung wireless network machine.
- The machine is within the range of the wireless network.
For most networks, the machine should be within 30 meters (100 feet) of the wireless access point (or wireless router).
- The machine is located away from obstacles that could block the wireless signal.
Remove any large metal objects between the access point (or wireless router) and the machine.
Make sure the machine and wireless access point (or wireless router) are not separated by poles, walls, or support columns containing metal or concrete.
- The machine is located away from other electronic devices that may interfere with the wireless signal.

basic setup

After installation is complete, you may want to set the machine's default settings. Refer to the next section if you would like to set or change values. This chapter gives you step-by-step instructions for setting up the machine.

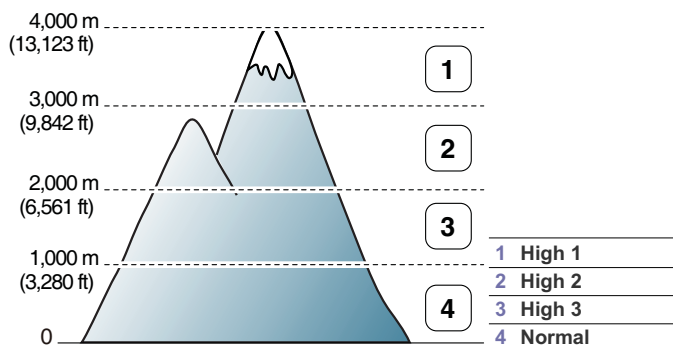
This chapter includes:

- Altitude adjustment
- Changing the display language
- Setting the date and time (CLX-3185FN/CLX-3185FW only)
- Changing the clock mode (CLX-3185FN/CLX-3185FW only)
- Changing the default mode (CLX-3185FN/CLX-3185FW only)

ALTITUDE ADJUSTMENT

The print quality is affected by atmospheric pressure, which is determined by the height of the machine above sea level. The following information will guide you on how to set your machine to the best print quality or best quality of print.

Before you set the altitude value, determine the altitude where you are.



1. Ensure that you have installed the printer driver with the provided Printer Software CD.
2. Double-click the **Smart Panel** icon on the Windows task bar (or Notification Area in Linux). You can also click **Smart Panel** on the status bar in Mac OS X.
3. Click **Printer Setting**.
 - If your machine is connected to the network, you can set the altitude via SyncThru™ Web Service.
4. Click **Setting > Altitude Adjustment**. Select the appropriate value from the drop-down list, and then click **Apply**.

You can also set the altitude in **System Setup > Machine Setup > Altitude Adj.** option on the machine's display.

CHANGING THE DISPLAY LANGUAGE

To change the language that appears on the display, follow the steps below.

- Setting sounds
- Entering characters using the number keypad (CLX-3185FN/CLX-3185FW only)
- Using the save modes
- Setting the default paper
- Setting job timeout

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 **Machine Setup** appears and press **OK**.
4. Press the left/right arrow until **Language** appears and press **OK**.
5. Press the left/right arrow to display the language you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

SETTING THE DATE AND TIME (CLX-3185FN/CLX-3185FW ONLY)

When you set the time and date, they are used in delay fax and delay print. They are printed on reports. If, however, they are not correct, you need to change it for the correct time being.

If the machine's power is cut off, you need to reset the correct time and date once the power has been restored.

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 **Machine Setup** appears and press **OK**.
4. Press the left/right arrow until **Date & Time** appears and press **OK**.
5. Enter the correct time and date using left/right arrow or numeric keypad.
 - Month = 01 to 12
 - Day = 01 to 31
 - Year = requires four digits
 - Hour = 01 to 12
 - Minute = 00 to 59
 - You can also select AM or PM by using the number keypad.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

CHANGING THE CLOCK MODE (CLX-3185FN/CLX-3185FW ONLY)

You can set your machine to print out the time on your fax using either a 12-hour or 24-hour format.

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 **Machine Setup** appears and press **OK**.
4. Press the left/right arrow until **Clock Mode** appears and press **OK**.
5. Press the left/right arrow to select the 12-hour or 24-hour clock format and press **OK**.
6. Press **Stop/Clear** to return to ready mode.

CHANGING THE DEFAULT MODE (CLX-3185FN/CLX-3185FW ONLY)

Your machine is preset to Copy mode. You can switch this default mode between Fax mode and Copy mode.


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 **Machine Setup** appears and press **OK**.
4. Press the left/right arrow until **Default Mode** appears and press **OK**.
5. Press the left/right arrow to select the mode you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

SETTING SOUNDS

 The setting options may differ according to your model. Check your model name.

You can control the following options.

- **Key sound:** Turns the key sound **On** or **Off**. With this option set to **On**, a tone sounds each time a key is pressed.
- **Alarm Sound:** Turns the alarm sound **On** or **Off**. With this option set to **On**, an alarm tone sounds when an error occurs or fax communication ends.
- **Speaker:** Turns **On** or **Off** the sounds from the telephone line through the speaker, such as a dial tone or a fax tone. With this option set to **Comm.** which means "Common", the speaker is on until the remote machine answers.

 You can adjust the volume level using **On Hook Dial**. If your machine has a handset, you can adjust the volume level using the handset.

- **Ringer:** Adjusts the ringer volume. For the ringer volume, you can select **Off**, **Low**, **Mid**, and **High**.

Key sound and alarm sound (CLX-3185/CLX-3185N only)

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 **Sound/Volume** appears and press **OK**.
4. Select **Key Sound** or **Alarm Sound**.
5. Select **On** or **Off** and press **OK**.
6. If necessary, repeat steps 4 through 5 to set other sounds.
7. Press **Stop/Clear** to return to ready mode.


Speaker, ringer, key sound, and alarm sound (CLX-3185FN/CLX-3185FW only)

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 **Sound/Volume** appears and press **OK**.

4. Press the left/right arrow until the sound option you want appear and press **OK**.
 - **Key Sound:** you can select **On** or **Off**.
 - **Alarm Sound:** you can select **On** or **Off**.
 - **Speaker:** you can select **Comm.**, **On** or **Off**.
 - **Ringer:** you can select **High**, **Mid**, **Low** or **Off**.
5. Press the left/right arrow until the desired status or volume for the sound you have selected appears and press **OK**.
6. If necessary, repeat steps 4 through 5 to set other sounds.
7. Press **Stop/Clear** to return to ready mode.

Speaker volume (CLX-3185FN/CLX-3185FW only)

To adjust the volume using **On Hook Dial**

1. Press  (Fax) on the control panel.
2. Press **On Hook Dial**. A dial tone sounds from the speaker.
3. Press the left/right arrow until you hear the volume you want.
4. Press **On Hook Dial** to save the change and return to ready mode.

ENTERING CHARACTERS USING THE NUMBER KEYPAD (CLX-3185FN/CLX-3185FW ONLY)

As you perform various tasks, you may need to enter names and numbers. For example, when you set up your machine, you enter your name or your company's name, and the fax number.

Entering alphanumeric characters

1. When you are prompted to enter a letter, locate the button labeled with the character you want. Press the button until the correct letter appears on the display.

For example, to enter the letter O, press 6, labeled with MNO.

Each time you press 6, the display shows a different letter, M, N, O, m, n, o and finally 6.

You can enter special characters such as space, plus sign, and etc. For details, see the below section.

2. To enter additional letters, repeat step 1.

If the next letter is printed on the same button, move the cursor by pressing the left/right arrow button and then press the button labeled with the letter you want. The cursor will move to the right and the next letter will appear on the display.

You can enter a space by pressing 1 twice.

3. When you have finished entering letters, press **OK**.

Keypad letters and numbers

KEY	ASSIGNED NUMBERS, LETTERS, OR CHARACTERS
1	@ / . ' 1
2	A B C a b c 2
3	D E F d e f 3
4	G H I g h i 4
5	J K L j k l 5
6	M N O m n o 6
7	P Q R S p q r s 7

KEY	ASSIGNED NUMBERS, LETTERS, OR CHARACTERS
8	T U V t u v 8
9	W X Y Z w x y z 9
0	& + - , 0
*	*
#	#

Correcting numbers or names

If you make a mistake while entering a number or name, press the left/right arrow button to delete the last digit or character. Then enter the correct number or character.

Inserting a pause

With some telephone systems, you must dial an access code (9, for example) and listen for a second dial tone. In such cases, you must insert a pause in the telephone number. You can insert a pause while you are setting up speed dial numbers.

To insert a pause, press **Redial/Pause** at the appropriate place while entering the telephone number. A - appears on the display at the corresponding location.


USING THE SAVE MODES

Using the power saving feature

When you will not be using the machine for a while, you can use this feature to save power.

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 **Machine Setup** appears and press **OK**.
4. Press the left/right arrow until **Power Save** appears and press **OK**.
5. Press the left/right arrow to select the time you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

SETTING THE DEFAULT PAPER

 The setting options may differ according to your model. Check your model name.

You can select the paper you would like to keep using for printing job.

From your machine's control panel

Setting the paper size

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 **Paper Setup** appears and press **OK**.
4. Press the left/right arrow until **Paper Size** appears and press **OK**.
5. Press the left/right arrow to select the paper size you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

Setting the paper type

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 **Paper Setup** appears and press **OK**.
4. Press the left/right arrow until **Paper Type** appears and press **OK**.
5. Press the left/right arrow to select the paper type you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

From your computer

Windows

1. Click the Windows **Start** menu.
2. For Windows 2000, select **Settings > Printers**.
 - For Windows XP/Server 2003, select **Printers and Faxes**.
 - For Windows Server 2008/Vista, select **Control Panel > Hardware and Sound > Printers**.
 - For Windows 7, select **Control Panel > Hardware and Sound > Devices and Printers**.
 - For Windows Server 2008 R2, select **Control Panel > Hardware > Devices and Printers**.
3. Right-click on your machine.
4. For Windows XP/Server 2003/Server 2008/Vista, press **Printing Preferences**.
For Windows 7 and Windows Server 2008 R2, select the **Printing Preferences** from context menu.



If **Printing Preferences** item has a ► mark, you can select other printer drivers connected with the selected printer.

5. Click **Paper** tab.
6. Select options such as paper size and type.
7. Press **OK**.



If you want to use special-sized paper such as a billing paper, select **Paper** tab > **Size > Edit...** in the **Printing Preferences** (See "Opening printing preferences" on page 72).

Macintosh

Macintosh users need to change the default setting manually each time they want to print using other settings.

1. Open a Macintosh application and select the file you want to print.
2. Open the **File** menu and click **Print**.
3. Go to **Paper Feed** pane.
4. Set appropriate tray from which you want to print.
5. Go to **Paper** pane.
6. Set paper type to correspond to the paper loaded in the tray from which you want to print.
7. Click **Print** to print.

Linux

1. Open **Terminal Program**.
2. When the Terminal screen appears, type in the following.
[root@localhost root]# lpr <FileName>
3. Select **Printer** and click **Properties...**
4. Click on the **Advanced** tab.
5. Select the tray (source) and its options, such as paper size and type.
6. Press **OK**.

SETTING JOB TIMEOUT

You can set the time the machine waits before it restores the default copy settings if you do not start copying after changing them on the control panel.


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 **Machine Setup** appears and press **OK**.
4. Press the left/right arrow until **Timeout** appears and press **OK**.
5. Press the left/right arrow until the time setting you want appears.
Selecting **Off** means that the machine does not restore the default settings until you press **Black Start** or **Color Start** to begin copying or **Stop/Clear** to cancel.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

media and tray

This chapter provides information on how to load originals and print media into your machine.

This chapter includes:

- Loading originals
- Selecting print media
- Changing the tray size for print media
- Loading paper in the tray

 Illustrations on this user's guide may differ from your machine depending on its options or models. Check your model name.

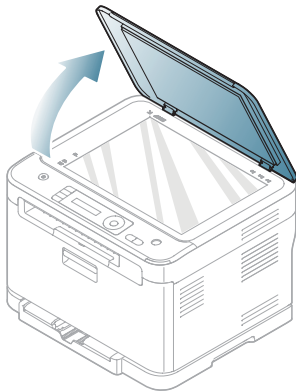
LOADING ORIGINALS

You can use the scanner glass to load an original for copying or scanning.

On the scanner glass

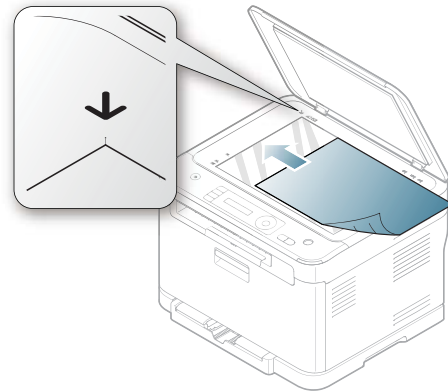
Using the scanner glass, you can copy or scan originals. You can get the best scan quality, especially for colored or gray-scaled images.

1. Lift and open the scanner lid.



- Printing on special media
- Setting the paper size and type
- Using the output support

2. Place the original face down on the scanner glass. Align it with the registration guide at the top left corner of the glass.



3. Close the scanner lid.



- Leaving the scanner lid open while copying may affect copy quality and toner consumption.
- Dust on the scanner glass may cause black spots on the printout. Always keep it clean (See "Cleaning the scan unit" on page 115).
- If you are copying a page from a book or magazine, lift the scanner lid until its hinges are caught by the stopper and then close the lid. If the book or magazine is thicker than 30 mm, start copying with the scanner lid open.



- Be careful not to break the scanner glass. You may get hurt.
- Do not put hands while closing the scanner lid. The scanner lid may fall on your hands and get hurt.
- Do not look the light from inside of the scanner while copying or scanning. It is harmful to eyes.

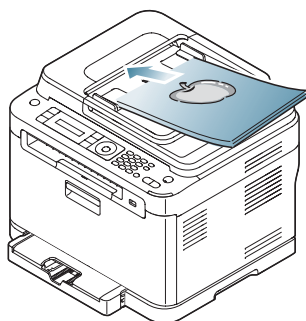
In the document feeder (CLX-3185FN/CLX-3185FW only)

Using the document feeder, you can load up to 40 sheets of paper (75 g/m², 20 lb bond) for one job.

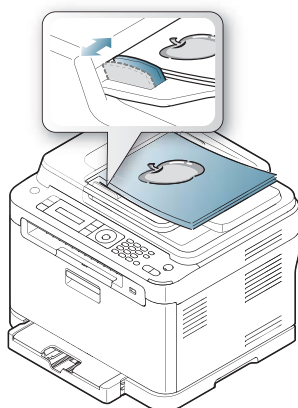
1. Flex or fan the edge of the paper stack to separate the pages before loading originals.



2. Load the original face up into the document feeder. Make sure that the bottom of the original stack matches the paper size marked on the document input tray.



3. Adjust the document feeder width guides to the paper size.



- Dust on the document feeder glass may cause black lines on the printout. Always keep the glass clean (See "Cleaning the scan unit" on page 115).

SELECTING PRINT MEDIA

You can print on a variety of print media such as plain paper, envelopes, labels, and transparencies. Always use print media that meets the guidelines for use with your machine and from the appropriate tray.

Guidelines for selecting the print media

Print media that does not meet the guidelines outlined in this User's Guide may cause the following problems.

- Poor print quality
- Increased paper jams
- Premature wear on the machine

- Permanent fuser damage, not covered under warranty.

Properties such as weight, composition, grain and moisture content are important factors that affect the machine's performance and the output quality. When you choose print materials, consider the following factors.

- The type, size and weight of the print media for your machine are described in print media specifications (See "Print media specifications" on page 142).
- Desired outcome: The print media you choose should be appropriate for your project.
- Brightness: Some print media are whiter than others and produce sharper and more vibrant images.
- Surface smoothness: The smoothness of the print media affects how crisp the printing looks on the paper.



- Some print media may meet all of the guidelines in this section and still not produce satisfactory results. This may be the result of the sheets characteristics, improper handling, unacceptable temperature and humidity levels, or other variables over which cannot be controlled.

- Before purchasing large quantities of print media, ensure that it meets the requirements specified in this user's guide.



Using print media that does not meet these specifications may cause problems requiring repairs. Such repairs are not covered by the warranty or service agreements.

The amount of paper put into the tray may differ according to media type used (See "Print media specifications" on page 142).

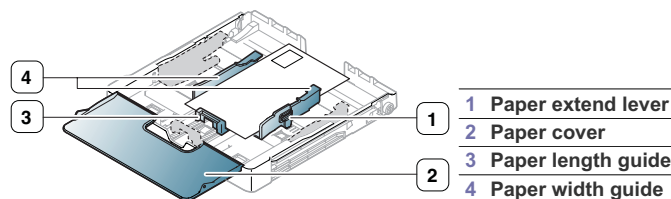
Media sizes supported in each mode

MODE	SIZE	SOURCE
Copy mode	Letter, A4, Legal, Oficio, US Folio, Executive, JIS B5, A5, A6	Tray 1
Print mode	All sizes supported by the machine.	Tray 1 Manual feeding in the tray
Fax mode	All sizes supported by the machine.	Tray 1

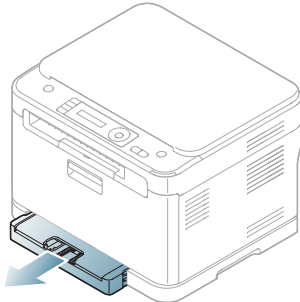
CHANGING THE TRAY SIZE FOR PRINT MEDIA

To load longer sizes of paper such as Legal-sized paper, you need to adjust the paper guides to extend the paper tray.

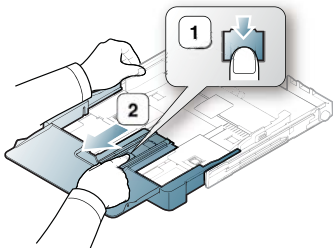
To change the tray size to other size, you must adjust the paper length guide properly.



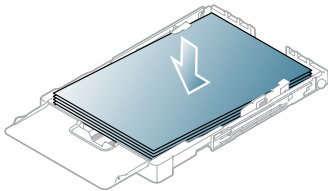
1. Pull the tray out of the machine. Open the paper cover and remove paper from the tray if necessary.



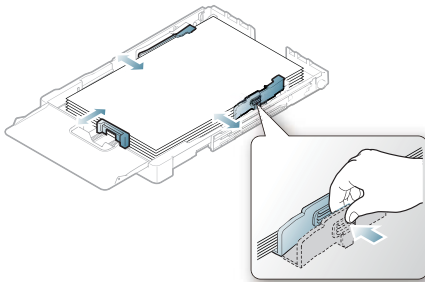
2. Pressing and unlatching the guide lock in the top of the tray, pull the tray out manually.



3. Place paper with the side you want to print facing up.

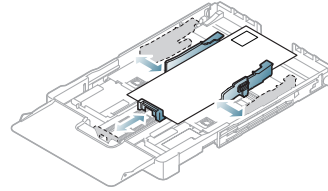


4. Slide the paper length guide until it lightly touches the end of the paper stack. Squeeze the paper width guide and slide it to the edge of the paper stack without causing it to bend.

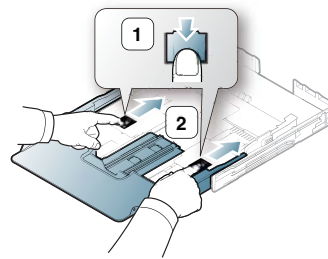


For paper smaller than Letter-sized, return the paper guides to their original positions and adjust the paper length guide and paper width

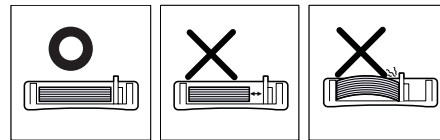
guide.



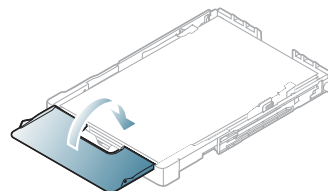
If the paper that you need to print is shorter than 222 mm (8.74 inches), press and unlatch the guide lock in the tray. Unextend the tray by pushing manually the extended portion back into the tray. Adjust the paper length guide and paper width guide.



- Do not push the paper width guide too far causing the media to warp.
- Do not use a paper with more than 6 mm (0.24 inch.) curl.
- If you do not adjust the paper width guide, it may cause paper jams.



5. Close the paper cover.



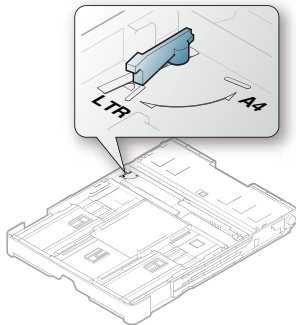
Slide the tray back into the machine.

After loading paper, set the paper type and size for the tray (See "Setting the paper size and type" on page 70).

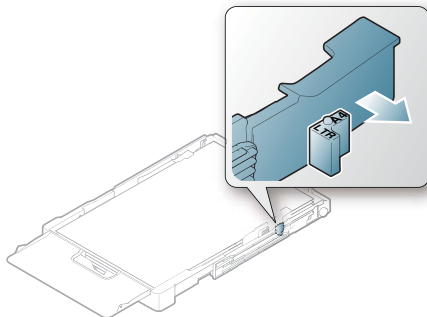
- Due to insufficient paper in the tray, the paper length guide can be pushed to inside, load enough paper.
- If you experience problems with paper feed, load a paper into the tray one by one.
- You can load previously printed paper. The printed side should be facing up with an uncurled edge at the front. If you experience problems with paper feed, turn the paper around. Note that print quality is not guaranteed.


The tray is preset to Letter or A4 size, depending on your country. To change the size to A4 or Letter, you must adjust the lever and paper width guide properly.

1. Pull the tray out of the machine. Open the paper cover and remove paper from the tray if necessary.
2. If you want to change the size to Letter, hold the lever at the back of the tray and rotate the lever clockwise.



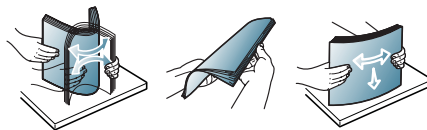
3. Squeeze the paper width guide and slide it to the edge of the lever.



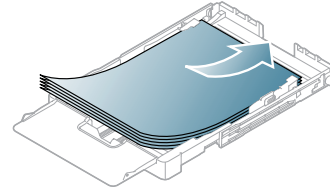
 If you want to change the size to A4, first move the paper width guide to left and rotate the lever counterclockwise. If you force the lever, it could damage the tray.

LOADING PAPER IN THE TRAY

1. Pull out the paper tray. And adjust the tray size to the media size you are loading (See "Changing the tray size for print media" on page 66).
2. Flex or fan the edge of the paper stack to separate the pages before loading the paper.



3. Place paper with the side you want to print facing up.



4. Insert the tray back into the machine.
5. When you print a document, set the paper type and size in the tray. For information about setting the paper type and size (See "Setting the paper size and type" on page 70).

PRINTING ON SPECIAL MEDIA

The media types are shown in the **Printing Preferences**. This paper type option allows you to set the type of paper to be loaded in the tray. This setting appears in the list so that you can select it. This will let you get the best quality printout. If not, the desired print quality may not be achieved.

- **Plain:** Normal plain paper. Select this type if your printing on 60 to 105 g/m² (16 to 28 lbs).
- **Thick:** 90 to 105 g/m² (24 to 28 lbs) thick paper.
- **Thin:** 60 to 70 g/m² (16 to 19 lbs) thin paper.
- **Cotton:** 75 to 90 g/m² (20 to 24 lbs) cotton paper.
- **Color:** 75 to 90 g/m² (20 to 24 lbs) color-backgrounded paper.
- **Preprinted:** 75 to 90 g/m² (20 to 24 lbs) preprinted/letterhead paper.
- **Envelope:** 75 to 90 g/m² (20 to 24 lbs) envelope.
- **Recycled:** 75 to 90 g/m² (20 to 24 lbs) recycled paper.



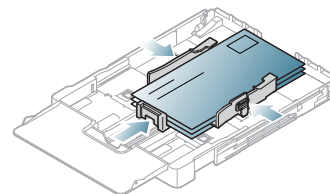
When you use recycled paper, printouts might be wrinkled and/or jamming may occur due to excessive curl.

- **Transparency:** 0.104 to 0.124 mm (0.004094 to 0.004882 inches) thickness of transparency paper.
- **Labels:** 120 to 150 g/m² (32 to 40 lbs) labels.
- **CardStock:** 105 to 220 g/m² (28 to 58 lbs) cardstock.
- **Bond:** 105 to 120 g/m² (28 to 32 lbs) bond.
- **Archive:** 70 to 90 g/m² (19 to 24 lbs). If you need to keep the print-out for a long time, such as for archives, select this option.
- **Glossy Photo:** 111 to 220 g/m² (30 to 58 lbs) glossy photo paper. See "Print media specifications" on page 142.
- **Matte Photo:** 111 to 220 g/m² (30 to 58 lbs) matte photo paper. See "Print media specifications" on page 142.

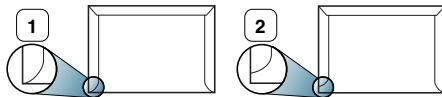
Envelopes

Successful printing on envelopes depends upon the quality of the envelopes.

To print an envelope, the stamp area is on the left side and the end of the envelope with the stamp area enters the printer first.



- When selecting envelopes, consider the following factors.
 - Weight:** The weight of the envelope paper should not exceed 90 g/m² otherwise, jams may occur.
 - Construction:** Prior to printing, envelopes should lie flat with less than 6 mm (0.24 inches) curl, and should not contain air.
 - Condition:** Envelopes should not be wrinkled, nicked, nor damaged.
 - Temperature:** Use envelopes that are compatible with the heat and pressure of the machine during operation.
- Use only well-constructed envelopes with sharp and well-creased folds.
- Do not use stamped envelopes.
- Do not use envelopes with clasps, snaps, windows, coated lining, self-adhesive seals, or other synthetic materials.
- Do not use damaged or poorly made envelopes.
- Be sure the seam at both ends of the envelope extends all the way to the corner of the envelope.

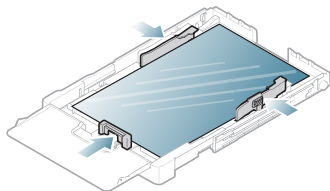


1 Acceptable
2 Unacceptable

- Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the machine's fusing temperature about 170°C(338 °F) for 0.1 second. The extra flaps and strips might cause wrinkling, creasing or jams, and may even damage the fuser.
- For the best print quality, position margins no closer than 15 mm (0.59 inches) from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Transparencies

To avoid damaging the machine, use only transparencies designed for laser printers.



- Transparencies used in the machine must be able to withstand machine's fusing temperature.
- Place them on a flat surface after removing them from the machine.
- Do not leave unused transparencies in the paper tray for long periods of time. Dust and dirt may accumulate on them, resulting in spotty printing.
- To avoid smudging caused by fingerprints, handle transparencies carefully.
- To avoid fading, do not expose printed transparencies to prolonged sunlight.
- Ensure that transparencies are not wrinkled, curled, or have any torn edges.
- Do not use transparencies that separate from the backing sheet.
- To prevent transparencies from sticking to each other, do not let the printed sheets stack up as they are printed out.

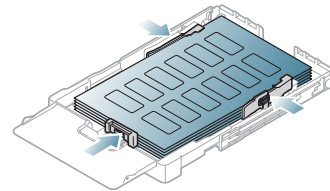
- Recommended media: **Xerox 3R91331** (A4), **Xerox 3R2780** (Letter). Base type transparency (ex. **Xerox 3R91331**) results in better image and paper handling quality than paper backed (ex. **Xerox 3R3028**) or removable stripe (**3R3108**) ones.



- Transparency with static electricity can cause image quality problems.
- Depending on the selection or storage conditions of the transparency, jam or image scratch might occur.

Labels

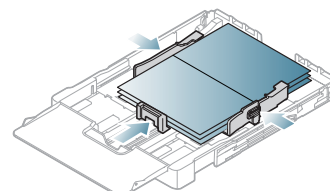
To avoid damaging the machine, use only labels designed for laser printers.



- When selecting labels, consider the following factors.
 - Adhesives:** The adhesive material should be stable at your machine's fusing temperature (about 170°C(338 °F)).
 - Arrangement:** Only use labels with no exposed backing between them. Labels can peel off sheets that have spaces between the labels, causing serious jams.
 - Curl:** Prior to printing, labels must lie flat with no more than 13 mm (0.51 inches) of curl in any direction.
 - Condition:** Do not use labels with wrinkles, bubbles, or other indications of separation.
- Make sure that there is no exposed adhesive material between labels. Exposed areas can cause labels to peel off during printing, which can cause paper jams. Exposed adhesive can also cause damage to machine components.
- Do not run a sheet of labels through the machine more than once. The adhesive backing is designed for only a single pass through the machine.
- Do not use labels that are separating from the backing sheet or are wrinkled, bubbled or otherwise damaged.

CardStock/Custom-sized paper

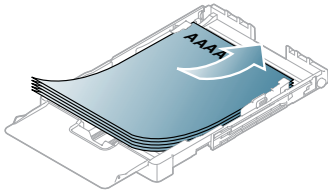
Postcards, cards and other custom-sized materials can be printed with your machine.



- Do not print on media smaller than 76 mm (3.00 inches) wide or 160 mm (6.30 inches) long.
- In software applications, set the margins at least 6.4 mm (0.25 inches) away from the edges of the material.

Letterhead/Preprinted paper

Letterhead/Preprinted materials can be printed with your machine.



- Letterhead/ Preprinted paper must be printed with heat-resistant ink that will not melt, vaporize or release hazardous emissions when subjected to the machine's fusing temperature for 0.1 second. Check your machine's specification to view the fusing temperature about 170°C (338 °F).
- Letterhead/ Preprinted paper ink must be non-flammable and should not adversely affect machine rollers.
- Forms and letterhead should be sealed in a moisture-proof wrapping to prevent changes during storage.
- Before you load letterhead/preprinted paper, verify that the ink on the paper is dry. During the fusing process, wet ink can come off preprinted paper, reducing print quality.

Glossy photo

- ✓ Load one paper to the tray at a time, facing glossy side up.

- Recommended media: Glossy paper (Letter) for this machine by **HP Brochure Paper** (Product: Q6611A).
- Recommended media: Glossy paper (A4) for this machine by **HP Superior Paper 160 glossy** (Product: Q6616A).
- Make sure not to use the inkjet photo paper with this machine. It could cause damage to the machine.

Matte photo

- ✓ Load one paper in the tray at a time, side to be printed facing up.

SETTING THE PAPER SIZE AND TYPE

After loading paper in the paper tray, set the paper size and type using the control panel. These settings will apply to copy and scan modes. For computer printing, select the paper size and type in the application program you use on your computer (See "Opening printing preferences" on page 72).

- ✓ The settings made from the machine driver override the settings on the control panel.

Setting the paper size

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 **Paper Setup** appears and press **OK**.
4. Press the left/right arrow until **Paper Size** appears and press **OK**.
5. Press the left/right arrow to select the paper size you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

- ✓ If you want to use special-sized paper-such as a billing paper, select **Edit...** in the **Paper** tab in the **Printing Preferences** (See "Opening printing preferences" on page 72).

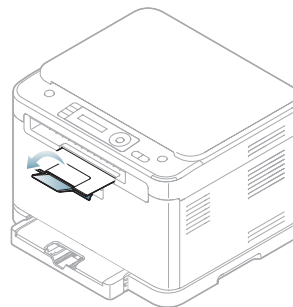
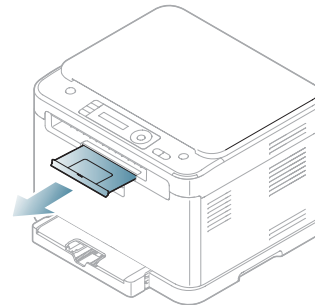
Setting the paper type

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 **Paper Setup** appears and press **OK**.
4. Press the left/right arrow until **Paper Type** appears and press **OK**.
5. Press the left/right arrow to select the paper type you want.
6. Press **OK** to save the selection.
7. Press **Stop/Clear** to return to ready mode.

USING THE OUTPUT SUPPORT

- ✓ The surface of the output tray may become hot if you print a large number of pages at once. Make sure that you do not touch the surface, and do not allow children near it.
- ✓ Illustrations on this user's guide may differ from your machine depending on its options or models. Check your model name.

The printed pages stack on the output support and it will help the printed pages to align.




printing

This chapter explains common printing tasks.

This chapter includes:

- Printer driver features
- Basic printing
- Opening printing preferences
- Using help
- Using special print features

 The procedures in this chapter are mainly based on Windows XP.

INTRODUCING USEFUL SOFTWARE PROGRAM

Samsung AnyWeb Print

This tool helps you to screen-capture, preview, scrap and print the screen of Windows Internet Explorer more easily, than when you use the ordinary program. Click **Start > All programs > Samsung Printers > Samsung AnyWeb Print > Download the latest version** to link the website where the tool is available for the download. This tool is available only for Windows operating systems.

Samsung Easy Color Manager


This program helps users to adjust color as they like. Users can adjust the printout color as they see them on the monitor. The adjusted color can be stored on the printer driver and applied to printouts. Click **Start > All programs > Samsung Printers > Samsung Easy Color Manager > Download the latest version** to link the website where the tool is available for the download. This tool is available only for Windows and Macintosh operating systems.

PRINTER DRIVER FEATURES

Your printer drivers support the following standard features.

- Paper orientation, size, source and media type selection
- Number of copies

In addition, you can use various special printing features. The following table shows a general overview of features supported by your printer drivers.

 Some models or operating systems may not support some of the feature(s) in the following table.

- Changing the default print settings
- Setting your machine as a default machine
- Printing to a file (PRN)
- Macintosh printing
- Linux printing


Printer driver

FEATURE	WINDOWS
Machine quality option	•
Booklet printing	•
Poster printing	•
Multiple pages per sheet	•
Fit to page printing	•
Reduce and enlarge printing	•
Watermark	•
Overlay	•
Double-sided printing (manual)	•


(•: supported, Blank: not supported)

BASIC PRINTING

Your machine allows you to print from various Windows, Macintosh or Linux applications. The exact steps for printing a document may vary depending on the application you use.

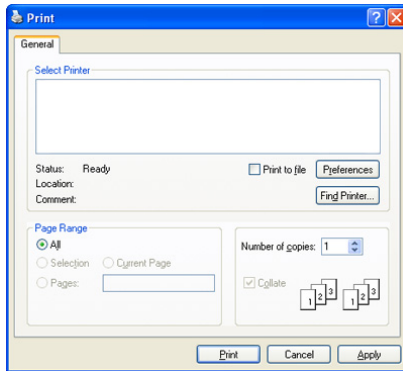
-  • Your **Printing Preferences** window that appears in this User's Guide may differ depending on the machine in use. However, the composition of the **Printing Preferences** window is similar. Check the operating system(s) that are compatible with your machine. Refer to the OS compatibility section of Printer Specifications (See "System requirements" on page 39).
- When you select an option in **Printing Preferences**, you may see a warning mark (✖) or (⚠). An exclamation mark (⚠) means you can select that certain option but it is not recommended, and (✖) mark means you cannot select that option due to the machine's settings or environment.

The following procedure describes the general steps required for printing from various Windows applications.

-  Macintosh basic printing (See "Macintosh printing" on page 76).
Linux basic printing (See "Linux printing" on page 77).

The following **Printing Preferences** window is for Notepad in Windows XP. Your **Printing Preferences** window may differ, depending on your operating system or the application you are using.

1. Open the document you want to print.
2. Select **Print** from the **File** menu. The **Print** window appears.
3. Select your machine from the **Select Printer** list.



You can select the basic print settings including the number of copies and the print range from within the **Print** window.

To take advantage of the printer features provided by your printer driver, click **Properties** or **Preferences** in the application's **Print** window to change the print setting (See "Opening printing preferences" on page 72).

4. To start the print job, click **OK** or **Print** in the **Print** window.

If you are using Windows Internet Explorer, the **Samsung AnyWeb Print** will save your time for screen-captured images or printing the image. Click **Start > All programs > Samsung Printers > Samsung AnyWeb Print > Download the latest version** to link the website where the tool is available for the download.

Canceling a print job

If the print job is waiting in a print queue or print spooler, cancel the job as follows.

1. Click the Windows **Start** menu.
2. For Windows Server 2000, select **Settings > Printers**.
 - For Windows XP/Server 2003, select **Printer and Faxes**.
 - For Windows Server 2008/Vista, select **Control Panel > Hardware and Sound > Printers**.
 - For Windows 7, select **Control Panel > Devices and Printers**.
 - For Windows Server 2008 R2, select **Control Panel > Hardware > Devices and Printers**.
3. For Windows Server 2000, XP, Server 2003, Vista or Server 2008, double-click your machine.
For Windows 7 or Windows Server 2008 R2, right-click your printer icon > context menus > **See what's printing**.

If **See what's printing** item has a ► mark, you can select other printer drivers connected with the selected printer.

4. From the **Document** menu, select **Cancel**.

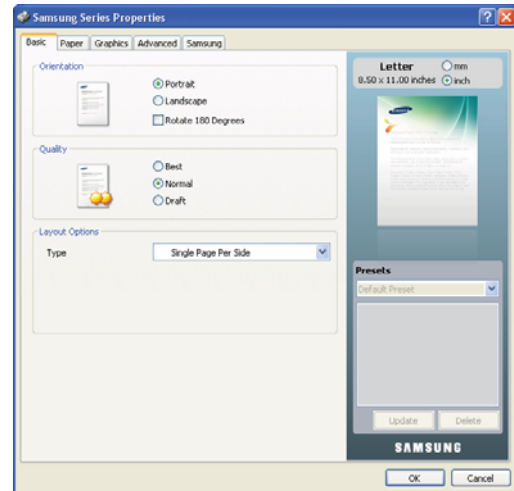
You can also access this window by simply double-clicking the machine icon () in the Windows task bar.

You can also cancel the current job by pressing **Stop/Clear** on the control panel.

OPENING PRINTING PREFERENCES

You can preview the settings you selected on the upper right of the **Printing Preferences**.

1. Open the document you want to print.
2. Select **Print** from the file menu. The **Print** window appears.
3. Select your machine from the **Select Printer**.
4. Click **Properties** or **Preferences**.

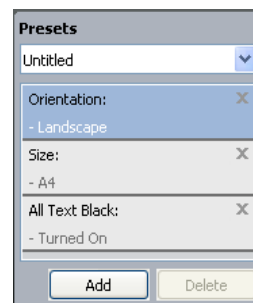


Using a favorite setting

The **Presets** option, which is visible on each preferences tab except for the **Samsung** tab, allows you to save the current preferences for future use.

To save a **Presets** item, follow the steps below.

1. Change the settings as needed on each tab.
2. Enter a name for the item in the **Presets** input box.

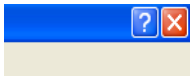


3. Click **Add**. When you save **Presets**, all current driver settings are saved. If you click **Add**, the **Add** button changes to the **Update** button. Select more options and click **Update**, settings will be added to the **Presets** you made. To use a saved setting, select it from the **Presets** drop-down list. The machine is now set to print according to the setting you selected. To delete saved settings, select it from the **Presets** drop-down list and click **Delete**.

You can also restore the printer driver's default settings by selecting **Default Preset** from the **Presets** drop-down list.

USING HELP

Click the question mark on the upper-right corner of the window and click on the topic you want to know about. Then a pop up window appears with information about that option's feature, which is provided from the driver.



If you want to search information via a keyword, click the **Samsung** tab in the **Printing Preferences** window and enter a keyword in the input line of the **Help** option. To get information about supplies, driver update, registration and so on, click appropriate buttons.

USING SPECIAL PRINT FEATURES

Special print features include the followings.

- "Printing multiple pages on one sheet of paper" on page 73.
- "Printing posters" on page 73.
- "Printing booklets (Manual)" on page 73.
- "Printing on both sides of the paper (Manual)" on page 73.
- "Change percentage of your document" on page 74.
- "Fitting your document to a selected paper size" on page 74.
- "Using watermarks" on page 74.
- "Using overlay" on page 75.
- "Advanced Options" on page 75.

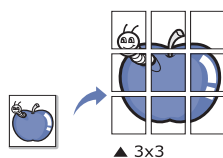
Printing multiple pages on one sheet of paper

You can select the number of pages to print on a single sheet of paper. To print more than one page per sheet, the pages will be reduced in size and arranged in the order you specify. You can print up to 16 pages on one sheet.

1. To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
2. Click the **Basic** tab, select **Multiple Pages per Side** in the **Type** drop-down list.
3. Select the number of pages you want to print per sheet (2, 4, 6, 9, or 16) in the **Pages per Side** drop-down list.
4. Select the page order from the **Page Order** drop-down list, if necessary.
5. Check **Print Page Border** to print a border around each page on the sheet.
6. Click the **Paper** tab, select the **Size, Source** and **Type**.
7. Click **OK** or **Print** until you exit the **Print** window.

Printing posters

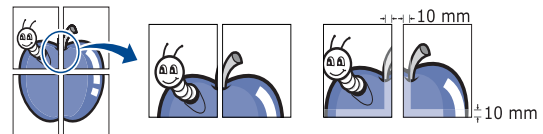
This feature allows you to print a single-page document onto 9 sheets of paper, for the purpose of pasting the sheets together to form one poster-size document.



1. To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
2. Click the **Basic** tab, select **Poster Printing** in the **Type** drop-down list.
3. Select the page layout you want.

Available layouts:

- **Poster 2x2:** Document will be enlarged and be divided into 4 pages.
 - **Poster 3x3:** Document will be enlarged and be divided into 9 pages.
 - **Poster 4x4:** Document will be enlarged and be divided into 16 pages.
4. Select the **Poster Overlap** value. Specify **Poster Overlap** in millimeters or inches by selecting the radio button on the upper right of **Basic** tab to make it easier to paste the sheets together.






5. Click the **Paper** tab, select the **Size, Source** and **Type**.
6. Click **OK** or **Print** until you exit the **Print** window.
7. You can complete the poster by pasting the sheets together.

Printing booklets (Manual)


This feature prints your document on both sides of a paper and arranges the pages so that the paper can be folded in half after printing to produce a booklet.



1. To change the print settings from your software application, access the **Printing Preferences** (See "Opening printing preferences" on page 72).
2. Click the **Basic** tab, select **Booklet Printing** from the **Type** drop-down list.
3. Click the **Paper** tab, select the **Size, Source** and **Type**.
 The **Booklet Printing** option is not available for all paper sizes. In order to find out the available paper size for this feature, select the available paper size in the **Size** option on the **Paper** tab.
If you select an unavailable paper size, this option can be automatically canceled. Select only available paper (paper without  or  mark).
4. Click **OK** or **Print** until you exit the **Print** window.
5. After printing, fold and staple the pages.

Printing on both sides of the paper (Manual)

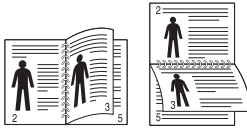
You can print on both sides of a paper (duplex). Before printing, decide how you want your document oriented. You can use this feature with Letter, Legal, A4, US Folio or Oficio sized paper (See "Print media specifications" on page 142).

 We recommend not to print on both sides of special media such as labels, envelopes or thick paper. It may cause a paper jam or damage the machine.

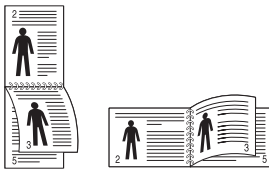
1. To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
2. Click the **Advance** tab.

- From the **Double-Sided Printing (Manual)** section, select the binding option you want.

- **None**
- **Long Edge:** This option is the conventional layout used in bookbinding.



- **Short Edge:** This option is the conventional layout used in calendars.



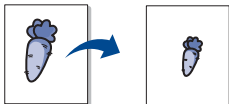
- Click the **Paper** tab, select the **Size, Source** and **Type**.
- Click **OK** or **Print** until you exit the **Print** window.



If your machine does not have a duplex unit, you should complete the printing job manually. The machine prints every other page of the document first. After that, a message appears on your computer. Follow the on-screen instructions to complete the printing job.

Change percentage of your document

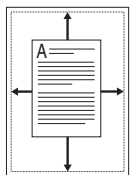
You can change the size of a document to appear larger or smaller on the printed page by typing in a percentage you want.



- To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
- Click the **Paper** tab.
- Enter the scaling rate in the **Percentage** input box.
You can also click the up/down arrows to select the scaling rate.
- Select the **Size, Source** and **Type** in **Paper Options**.
- Click **OK** or **Print** until you exit the **Print** window.

Fitting your document to a selected paper size

This feature allows you to scale your print job to any selected paper size regardless of the document size. This can be useful when you want to check fine details on a small document.



- To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
- Click the **Paper** tab.

- Select the paper size you want from the **Fit to page**.
- Select the **Size, Source** and **Type** in **Paper Options**.
- Click **OK** or **Print** until you exit the **Print** window.

Using watermarks

The watermark option allows you to print text over an existing document. For example, you use it when you want to have large gray letters reading "DRAFT" or "CONFIDENTIAL" printed diagonally across the first page or all pages of a document.



There are several predefined watermarks that come with the machine. They can be modified, or you can add new ones to the list.

Using an existing watermark

- To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
- Click the **Advanced** tab, and select the desired watermark from the **Watermark** drop-down list. You will see the selected watermark in the preview image.
- Click **OK** or **Print** until you exit the print window.

Creating a watermark

- To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
- From the **Advanced** tab, select **Edit** from the **Watermark** drop-down list. The **Edit Watermarks** window appears.
- Enter a text message in the **Watermark Message** box. You can enter up to 256 characters. The message displays in the preview window.
When the **First Page Only** box is checked, the watermark prints on the first page only.
- Select watermark options.
You can select the font name, style, size and shade from the **Font Attributes** section as well as set the angle of the watermark from the **Message Angle** section.
- Click **Add** to add a new watermark to the **Current Watermarks** list.
- When you have finished, click **OK** or **Print** until you exit the **Print** window.

To stop printing the watermark, select **None** from the **Watermark** drop-down list.

Editing a watermark

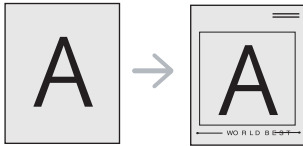
- To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
- Click the **Advanced** tab, select **Edit** from the **Watermark** drop-down list. The **Edit Watermarks** window appears.
- Select the watermark you want to edit from the **Current Watermarks** list and change the watermark message and options.
- Click **Update** to save the changes.
- Click **OK** or **Print** until you exit the **Print** window.

Deleting a watermark

1. To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
2. Click the **Advanced** tab, select **Edit** from the **Watermark** drop-down list. The **Edit Watermarks** window appears.
3. Select the watermark you want to delete from the **Current Watermarks** list and click **Delete**.
4. Click **OK** or **Print** until you exit the **Print** window.

Using overlay


An overlay is content you store on your hard disk drive that can be superimposed over any document you print. An overlay is often used to take the place of letterhead paper. Rather than using preprinted letterhead, you can create an overlay containing exactly the same information that is currently on your letterhead. To print a letter with your company's letterhead, you do not need to load preprinted letterhead paper in the machine, instead you can just print the letterhead overlay on your document.



Creating a new page overlay

To use a page overlay, you must create a new page overlay file containing your content.

1. Create or open a document containing the content you want to use in a new page overlay. Position the items exactly where you want them to appear when they are added to the original.
2. To save the document as an overlay, access **Printing Preferences** (See "Opening printing preferences" on page 72).
3. Click the **Advanced** tab, and select **Edit** from the **Text** drop-down list. The **Edit Overlay** window appears.
4. In the **Edit Overlay** window, click **Create**.
5. In the **Save As** window, type a name of up to eight characters in the **File name** box. Select the destination path, if necessary (The default is C:\Formover).
6. Click **Save**. The name appears on the **Overlay List**.
7. Click **OK** or **Print** until you exit the **Print** window.
8. The file is not printed. Instead, it is stored on your computer hard disk drive.

 The overlay document size must match same as the document you print. Do not create an overlay with a watermark.

Using a page overlay

After an overlay has been created, it is ready to be printed with your document. To print an overlay with a document, do the following.

1. Create or open the document you want to print.
2. To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
3. Click the **Advanced** tab.
4. Select the desired overlay from the **Text** drop-down list.

5. If the overlay file you want does not appear in the **Text** drop-down list, select **Edit** from the list and click **Load**. Select the overlay file you want to use.

If you have stored the overlay file you want to use in an external source, you can also load the file when you access the **Open** window.


After you select the file, click **Open**. The file appears in the **Overlay List** box and is available for printing. Select the overlay from the **Overlay List** box.

6. If necessary, check **Confirm Page Overlay When Printing** box. If this box is checked, a message window appears each time you submit a document for printing, asking you to confirm you wish to print an overlay over your document.

If this box is not checked and an overlay has been selected, the overlay automatically prints with your document.

7. Click **OK** or **Print** until you exit the **Print** window.

The selected overlay prints over your document.

 The resolution of the overlay document must match the resolution of the original print job.


Deleting an overlay

You can delete page overlays that you no longer use.


1. In the **Printing Preferences** window, click the **Advanced** tab.
2. Select **Edit** in the **Overlay** drop-down list.
3. Select the overlay you want to delete from the **Overlay List** box.
4. Click **Delete**.
5. When the confirmation message window appears, click **Yes**.
6. Click **OK** or **Print** until you exit the **Print** window.

Advanced Options

Use the following Graphics options to adjust the print quality for your specific printing needs.

 If the option is grayed out or not shown, that option is not applicable with the printer language you are using.

1. To change the print settings from your software application, access **Printing Preferences** (See "Opening printing preferences" on page 72).
2. Click the **Graphics** tab.

-  The options you can select may vary depending on your machine.
 - Refer to the help for each option's information provided from the **Printing Preferences**.
 - **Font/Text:** Select **Darken Text** to print text darker than on a normal document. Use **All Text Black** to prints solid black, regardless of the color it appears on the screen.
 - **Graphic Controller:** **Fine Edge** allows you to emphasize edges of texts and fine lines for improving readability. **Grayscale Enhancement** allows users to preserve the details of nature photos, and improve contrast and readability among gray-scaled colors when printing color documents in grayscale.
 - **Toner Save:** Adjusting this option extends the life of your toner cartridges and reduces your cost per page without a significant reduction in print quality.
 - You can move the slider from **No Saving** to **Maximum Saving** to reduce toner consumption.
3. Click **OK** or **Print** until you exit the **Print** window.