SHARP

DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM

Start Guide
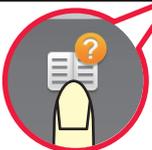
Tap!
You can select and print a manual.

Manual types and how to view the manuals are explained on the page 4.
Additional manuals are available for each application.
Read and understand the manuals, and use the product correctly.

TABLE OF CONTENTS

OPERATION MANUALS AND HOW TO USE THEM

Start Guide
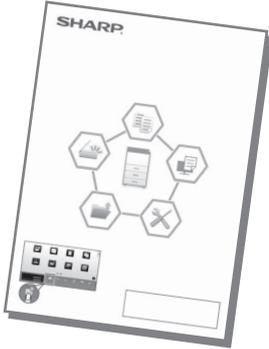
This manual explains basic procedures for using the machine, cautions for safe use of the machine, and information for the administrator. Read this manual before using the machine.
For detailed operating procedures and troubleshooting information, see the manuals in PDF format.

Operation Guide (Displayed on the touch panel)

This guide appears when you tap the ✎ icon on the machine's touch panel. The guide explains the basic procedures for operating the machine. In addition, the manuals below can be printed. To print a manual, see "HOW TO PRINT A MANUAL (page 6)".

Software Setup Guide

This guide explains how to install the software and configure settings to use the machine as a printer or scanner.

Quick Start Guide

This guide is intended to help you get started using the basic and convenient functions of the machine.

Web Page Settings Guide

This guide explains the procedures for configuring machine settings from your computer using the web page settings function embedded in the machine.

✎ Like the "User's Manual", these manuals can be downloaded from our website and viewed on your computer.

User's Manual

Detailed explanations of the functions that can be used on the machine are provided in the "User's Manual".
The User's Manual can be downloaded from the machine.
Download the User's Manual from the Web pages in the machine.
For the downloading procedure, see "DOWNLOADING THE OPERATION GUIDE (page 7)".

For detailed information
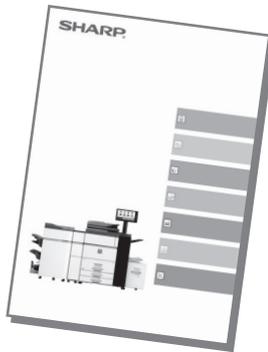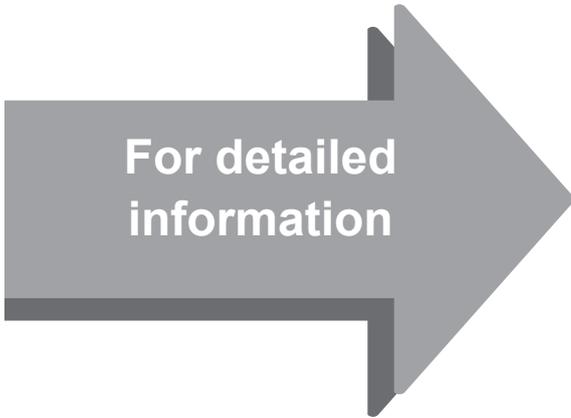
U/I Customize Guide	Print Release Settings Guide	Troubleshooting
This guide explains how to customize the user interface of the touch panel, such as background and icon images.	This guide explains how to use the print release function.	This manual provides answers to frequently asked questions regarding the operation of the machine in each mode.
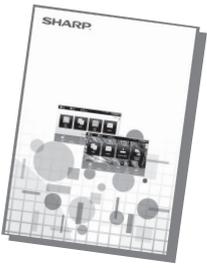
HOW TO PRINT A MANUAL

1

Press the [Home Screen] key.

Home screen appears.

2
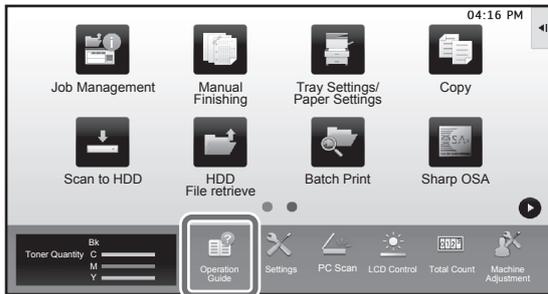
Tap the [Operation Guide] key.

3

Set in a touch panel.

(1) Tap the [Downloading and printing manuals] key.

(2) Tap the [Manuals that can be printed] key.

(3) Tap the manual icon.
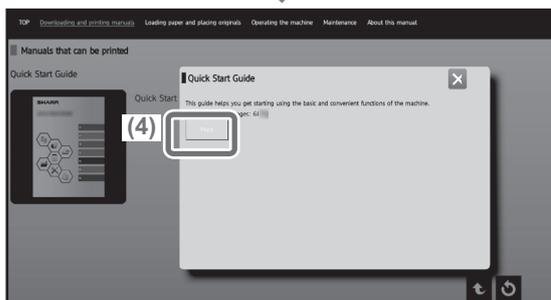
(4) Tap [Print].

The Print Settings screen appears. Select settings and tap the [Start] key to start printing.

ACCESSING THE WEB SERVER IN THE MACHINE

When the machine is connected to a network, the machine's built-in Web server can be accessed from a Web browser on your computer.

OPENING THE WEB PAGES

1

`https://192.168.0.1:4343/`
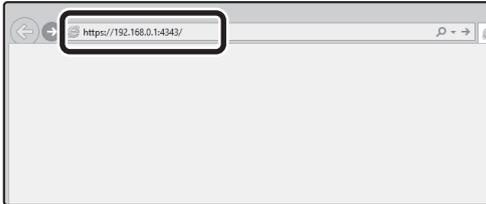
Access the Web server in the machine to open the Web pages.

Start a Web browser on a computer that is connected to the same network as the machine and enter the IP address of the machine.

Recommended Web browsers:
- Internet Explorer: 9 or later (Windows®)
- Firefox (Windows®), Safari (Mac OS®), Chrome (Windows®):

Latest version or immediately previous major release

The Web page will appear.
The machine settings may require that user authentication is performed in order to open the Web page. Please ask the administrator of the machine for the password that is required for user authentication.

Checking the IP address
You can check the IP address on the machine.
Tap the [Settings] key in the home screen, select [Status] → [Network Status].

DOWNLOADING THE OPERATION GUIDE

The Operation Guide, which is a more detailed manual, can be downloaded from the machine's Web pages.

1

(1) Operation Manual Download   Sitemap
American English
User Name: Administrator   Logout

Click [Operation Manual Download] in the menu of the Web page.

2

Select a manual to be downloaded.   (2)
Download Language: English
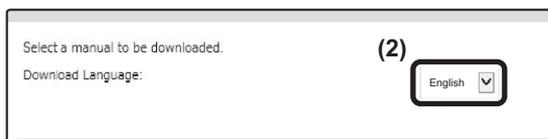
Select the desired language.

3

Settings Guide
Troubleshooting   This manual provides answers to frequently asked questions regard
(3)
Download(O)
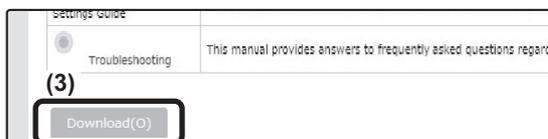
Select the manual you want to download, and click the [Download] button.

CAUTIONS

Each instruction also covers the optional units used with these products.

For a complete electrical disconnection, pull out the main plug. The socket-outlet shall be installed near the equipment and shall be easily accessible.

Notice for users in the USA

BE SURE TO ASK YOUR AUTHORIZED SHARP DEALER ABOUT THE WARRANTY THAT YOUR SELLING DEALER EXTENDS TO YOU. In order to assure you, the end-user, of warranty protection, Sharp extends a limited warranty to each of its authorized dealers and, in turn, requires each of its authorized dealers to extend its own warranty to you on terms that are no less favorable than those given to the dealer by Sharp. You should be aware, however, that Sharp does not itself extend any warranties, either express or implied, directly to you, the end-user, and no one is authorized to make any representations or warranties on behalf of Sharp. Specifically, SHARP DOES NOT EXTEND TO YOU, THE END-USER, ANY EXPRESS WARRANTY OR ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR USE OR FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE HARDWARE, SOFTWARE OR FIRMWARE EMBODIED IN, OR USED IN CONJUNCTION WITH THIS PRODUCT. Sharp is not responsible for any damages or loss, either direct, incidental or consequential, which you, the end-user, may experience as a result of your purchase or use of the hardware, software or firmware embodied in or used in conjunction with this Product.
Your sole remedy, in the event that you encounter any difficulties with this Product, is against the authorized dealer from which you purchased the Product.
MX-7090N/MX-8090N
Digital Full Color Multifunctional System
In the event that this authorized dealer does not honor its warranty commitments, please contact the General Manager, Business Products Group, Sharp Electronics Corporation, 100 Paragon Drive, Montvale, New Jersey 07645-1779, so that Sharp can try to help assure complete satisfaction of all the warranty rights to which you are entitled from the authorized dealer.

Safety precautions

This Digital Equipment is rated Class 1 and complies with 21 CFR 1040.10 and 1040.11 of the CDRH standards. This means that the equipment does not produce hazardous laser radiation. For your safety, observe the precautions below.
• Do not remove the cabinet, operation panel or any other covers.
• The equipment's exterior covers contain several safety interlock switches. Do not bypass any safety interlock by inserting wedges or other items into switch slots.

Laser information

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Wave length	788 nm +12nm / -13nm
Pulse times	**MX-7090N:** Normal paper mode= 3.64 µs ± 0.0137 µs / 7 mm Heavy paper mode 1= 5.96 µs ± 0.0225 µs / 7 mm Heavy paper mode 2= 3.97 µs ± 0.0150 µs / 7 mm **MX-8090N:** Normal paper mode= 3.32 µs ± 0.0125 µs / 7 mm Heavy paper mode 1= 5.96 µs ± 0.0225 µs / 7 mm Heavy paper mode 2= 3.97 µs ± 0.0150 µs / 7 mm
Output power	Max 1.5 mW (LD1+LD2+LD3+LD4)

This Digital Equipment is CLASS 1 LASER PRODUCT (IEC 60825-1 Edition 2-2007).

"BATTERY DISPOSAL"
THIS PRODUCT CONTAINS A LITHIUM PRIMARY MEMORY BACK-UP BATTERY THAT MUST BE DISPOSED OF PROPERLY. PLEASE CONTACT YOUR LOCAL SHARP DEALER OR AUTHORIZED SERVICE REPRESENTATIVE FOR ASSISTANCE IN DISPOSING OF THIS BATTERY.

This product utilizes a CR coin Lithium battery which contains a Perchlorate material. Special handling for this material may apply, California residents,
See www.dtsc.ca.gov/hazardouswaste/perchlorate/
Others, consult local environmental officers.

FOR YOUR RECORDS ...

To protect against loss or theft, record and retain for reference the machine's serial number located at the rear side of the machine.
Model Number _____
Serial Number _____
Date of Purchase _____
Place of Purchase _____
Authorized Sharp Printer _____
Service Department Number _____

Warranty

While every effort has been made to make this document as accurate and helpful as possible, SHARP Corporation makes no warranty of any kind with regard to its content. All information included herein is subject to change without notice. SHARP is not responsible for any loss or damages, direct or indirect, arising from or related to the use of this operation manual.
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EMC (this machine and peripheral devices)

WARNING:
FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Shielded interface cables must be used with this equipment to maintain compliance with EMC regulations.

A Cable of 10 m or less is preferable.

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

Symbols in this manual

To ensure safe use of the machine, this manual uses various safety symbols. The safety symbols are classified as explained below. Be sure you understand the meaning of the symbols when reading the manual.

Meaning of the symbols

⚠ **WARNING**

Indicates a risk of death or serious injury.

⚠ CAUTION! HOT

⚠ PINCH POINT KEEP CLEAR

🚫 PROHIBITED ACTIONS

⚠ **CAUTION**

Indicates a risk of human injury or property damage.

🚫 DO NOT DISASSEMBLE

❗ MANDATORY ACTIONS

Power notes

⚠ **WARNING**

🚫 **Be sure to connect the power cord only to a power outlet that meets the specified voltage and current requirements. Also make certain the outlet is properly grounded. Do not use an extension cord or adapter to connect other devices to the power outlet used by the machine.**
Using an improper power supply may cause fire or electrical shock.
* For the power supply requirements, see the name plate of each machines and devices.

🚫 **Do not damage or modify the power cord.**
Placing heavy objects on the power cord, pulling it, or forcibly bending it will damage the cord, resulting in fire or electrical shock.

🚫 **Do not insert or remove the power plug with wet hands.**
This may cause electrical shock.

⚠ **CAUTION**

🚫 **When removing the power plug from the outlet, do not pull on the cord.**
Pulling on the cord may cause damage such as wire exposure and breakage, and may result in fire or electrical shock.

❗ **If you will not use the machine for a long time, be sure to remove the power plug from the outlet for safety.**

❗ **When moving the machine, switch off the main power and remove the power plug from the outlet before moving.**
The cord may be damaged, will create a risk of fire or electrical shock.

Installation notes

⚠ **CAUTION**

🚫 **Do not install the machine on an unstable or slanted surface. Install the machine on a surface that can withstand the weight of the machine.**
Risk of injury due to the machine falling or toppling.
If peripheral devices are to be installed, do not install on an uneven floor, slanted surface, or otherwise unstable surface. Danger of slippage, falling, and toppling. Install the product on a flat, stable surface that can withstand the weight of the product.

🚫 **Do not install in a location with moisture or dust.**
Risk of fire and electrical shock.
If dust enters the machine, dirty output and machine failure may result.

Locations that are excessively hot, cold, humid, or dry (near heaters, humidifiers, air conditioners, etc.)
The paper will become damp and condensation may form inside the machine, causing misfeeds and dirty output.
If the location has an ultrasonic humidifier, use pure water for humidifiers in the humidifier. If tap water is used, minerals and other impurities will be emitted, causing impurities to collect on the inside of the machine and create dirty output.

When the machine is installed, the adjusters must be lowered to the floor to secure the machine (prevent it from moving).
Rotate the adjusters in the locking direction until they are in firm contact with the floor.
If you find it necessary to reposition the machine due to rearrangement of your office layout or other reason, retract the adjusters from the floor, turn off the power, and then move the machine.
(After moving the machine, lower the adjusters again to secure the machine.)

Locations exposed to direct sunlight
Plastic parts may become deformed and dirty output may result.

Locations with ammonia gas
Installing the machine next to a diazo copy machine may cause dirty output.

Do not install the machine in a location with poor air circulation.
A small amount of ozone is created inside the machine during printing. The amount of ozone created is not sufficient to be harmful; however, an unpleasant odor may be noticed during large copy runs, and thus the machine should be installed in a room with a ventilation fan or windows that provide sufficient air circulation. (The odor may occasionally cause headaches.)
* Install the machine so that people are not directly exposed to exhaust from the machine. If installed near a window, ensure that the machine not be exposed to direct sunlight.

Near a wall
Be sure to allow the required space around the machine for servicing and proper ventilation. (The machine should be no closer than the distances indicated below from walls.)

30 cm

30 cm   Machine   45 cm
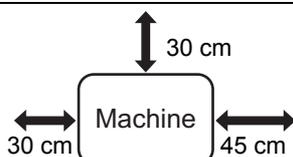
Locations subject to vibration.
Vibration may cause failure.

The machine includes a built-in hard drive. Do not subject the machine to shock or vibration. In particular, never move the machine while the power is on.

• The machine should be installed near an accessible power outlet for easy connection.

• Connect the machine to a power outlet which is not used for other electric appliances. If a lighting fixture is connected to the same outlet, the light may flicker.

About consumables

⚠ CAUTION

Do not throw a toner cartridge into a fire.
Toner may fly and cause burns.

Store a toner cartridge out of the reach of children.

Handling precautions

⚠ WARNING

Do not place a container of water or other liquid, or a metal object that might fall inside, on the machine.
If the liquid spills or the object falls into the machine, fire or electrical shock may result.

Do not remove the machine casing.
High-voltage parts inside the machine may cause electrical shock.

Do not make any modifications to this machine.
Doing so may result in personal injury or damage to the machine.

Do not use a flammable spray to clean the machine.
If gas from the spray comes in contact with hot electrical components or the fusing unit inside the machine, fire or electrical shock may result.

If you notice smoke, a strange odor, or other abnormality, do not use the machine.
If used in this condition, fire or electrical shock may result. Immediately switch off the main power and remove the power plug from the power outlet.
Contact your dealer or nearest SHARP Service Department.

If a thunder storm begins, switch off the main power and remove the power plug from the outlet to prevent electrical shock and fire due to lightning.

If a piece of metal or water enters the machine, switch off the main power and remove the power plug from the power outlet.
Contact your dealer or nearest SHARP Service Department. Using the machine in this condition may result in electrical shock or fire.

⚠ CAUTION

🚫 **Do not look directly at the light source.**
Doing so may damage your eyes.

🚫 **Do not block the ventilation ports on the machine. Do not install the machine in a location that will block the ventilation ports.**
Blocking the ventilation ports will cause heat to build up in the machine, creating a risk of fire.

⚠ **The fusing unit and paper exit area are hot. When removing a misfeed, do not touch the fusing unit and paper exit area. Take care not to burn yourself.**

⚠ **When loading paper, removing a misfeed, performing maintenance, closing the front and side covers, and inserting and removing trays, take care that your fingers are not pinched.**

If voltage fluctuations exceed the allowed range, the device may stop.

ENVIRONMENT

Products that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency.

The products that meet the ENERGY STAR® guidelines carry the ENERGY STAR® logo.
The products without the logo may not meet the ENERGY STAR® guidelines.

SUPPLIES

Standard supplies for this product that can be replaced by the user include paper and toner cartridges.
Be sure to use only SHARP-specified products for the toner cartridges and transparency film.

SHARP
GENUINE SUPPLIES
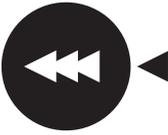
For best copying results, be sure to use only Sharp Genuine Supplies which are designed, engineered, and tested to maximize the life and performance of Sharp products. Look for the Genuine Supplies label on the toner package.

Storage of supplies

Proper storage
1. Store the supplies in a location that is:
   • clean and dry,
   • at a stable temperature,
   • not exposed to direct sunlight.
2. Store paper in the wrapper and lying flat.
3. Paper stored in packages standing up or out of the wrapper may curl or become damp, resulting in paper misfeeds.

Storing toner cartridges
Store a new toner cartridge box horizontally with the top side up. Do not store a toner cartridge standing on end. If stored standing on end, the toner may not distribute well even after shaking the cartridge vigorously, and will remain inside the cartridge without flowing out.
 • Store the toner in a location that is cooler than 104°F (40°C). Storage in a hot location may cause the toner in the cartridge to solidify.
 • Please use SHARP-recommended toner cartridges. If toner cartridges other than SHARP-recommended toner cartridges are used, the machine may not attain full quality and performance and there is a risk of damage to the machine.

Supply of spare parts and consumables
The supply of spare parts for repair of the machine is guaranteed for at least 7 years following the termination of production. Spare parts are those parts of the machine which may break down within the scope of the ordinary use of the product, whereas those parts which normally exceed the life of the product are not to be considered as spare parts. Consumables too, are available for 7 years following the termination of production.

Safety data sheet

The SDS (Safety Data Sheet) can be viewed at the following URL address:
http://www.sharp-world.com/corporate/eco/env-info/sds/us/index.html

FOR THE ADMINISTRATOR

Settings mode password

The administrator password is required to change the machine's settings mode.
Settings mode can be changed from either the operation panel or using a computer web browser. After setting up the machine, refer to [SETTINGS MODE] in the User's Manual to set a new password.

Password for logging in from this machine

The factory default password for the machine is "admin".

Password for logging in from a computer

In the factory default state, the only account that can be used to log in from a web browser is the "Administrator" account. When user authentication is enabled, the "System Administrator" account can be also be used for login. In addition, a fixed user can be specified as a login user. The default password of each account is shown below.
When you log in as an "Administrator" or "System Administrator", you can manage all settings that can be accessed from a web browser.

	Account	Password
User	users	users
Administrator	admin	admin
System Administrator	sysadmin	sysadmin

About password management

It is requested to change the administrator password right after installing the machine. The password should be changed by the administrator and strictly managed. Write down the changed password in the following table and keep it carefully. **Please write "New Password".**

Factory default		New Password
Administrator password	admin	

Please take care not to forget newly set administrator password. If it is forgotten there is no way to confirm it and some settings and functions that require administrator authorization may not be used.

Forwarding all transmitted and received data to the administrator (document administration function)

This function is used to forward all data transmitted and received by the machine to a specified destination (Scan to E-mail address, Scan to FTP destination, or Scan to Network Folder destination).
This function can be used by the administrator of the machine to archive all transmitted and received data.
To configure the document administration settings, click [System Settings] - [Security Settings] and then [Document Administration Function]. (Administrator rights are required.)

The format, exposure, and resolution settings of transmitted and received data remain in effect when the data is forwarded.

Points to notice when connecting to the network

When connecting the machine to the network, do not directly connect to the internet but to the sub network (range divided by the router) in which only the authorized device (such as PC) for the communication with the machine in the protected LAN in some way like firewall is connected. And manage the connected devices in the sub network so that the network condition may always be maintained. Also use the filter setting function to prevent illegal access.

SOFTWARE LICENSE

The Software License will appear when you download the software[1] or install the software from the CD-ROM[2].
By downloading and using the software, you are agreeing to the bound by the terms of the Software License.
*1: If the software is obtained from our website.
*2: If the "Software CD-ROM" is provided with the machine.

Document filing

The machine includes the document filing function, which stores document image data on the machine's hard drive. Stored documents can be called up and printed or transmitted as needed. If a hard drive failure occurs, it will no longer be possible to call up the stored document data. To prevent the loss of important documents in the unlikely event of a hard drive failure, keep the originals of important documents or store the original data elsewhere.
With the exception of instances provided for by law, Sharp Corporation bears no responsibility for any damages or loss due to the loss of stored document data.

- This machine contains the software having modules developed by Independent JPEG Group.
- Copyright© 1995-2007 Adobe Macromedia Software LLC. All rights reserved.
- This product includes the Adobe® PostScript®3™ of Adobe Systems Incorporated.
- This product uses "InstantBoot" provided by IT Access Co., Ltd., Japan.

PART NAMES

(1) **Output tray (center tray)***
(2) **Keyboard**
(3) **Automatic document feeder**
(4) **Status indicator***
(5) **Toner cover (upper front cover)**
(6) **Front cover**
(7) **Operation panel**
(8) **USB connector (A type)**
(9) **Right tray***
(10) **Bypass tray (on the machine)***
(11) **Tray 5 (MX-LC12)***
(12) **Saddle stitch finisher (100-sheet stapling)***
(13) **Tray 1**
(14) **Curl correction unit***

(15) **Tray 3**
(16) **Tray 4**
(17) **Tray 2**
(18) **Cover for waste toner bottle**
(19) **Tray 5 (MX-LCX3 N)***
(20) **Finisher (100-sheet stapling)***
(21) **Trimming module***
(22) **Punch module (MX-PN13B)***
(23) **Folding unit***
(24) **Inserter***
(25) **Bypass tray (on the large capacity trays)***
(26) **Paper pass unit***
(27) **Large capacity trays***

* Peripheral device. For more information, see the User's Manual.

TURNING ON THE POWER

Operate two power switches: the main power switch inside the front cover, located in the left side, and the [Power] button on the operation panel.

Turning on the power

- Turn the main power switch to the " | " position.
- When the main power indicator lights in green, press the [Power] button.

Turning off the power

- Turn off the power by pressing the [Power] button, then turn the main power switch to the "⏻" position.

Restart the machine

- Turn off the power by pressing the [Power] button and then press it again to turn on the power.

[Power] button

Main power indicator
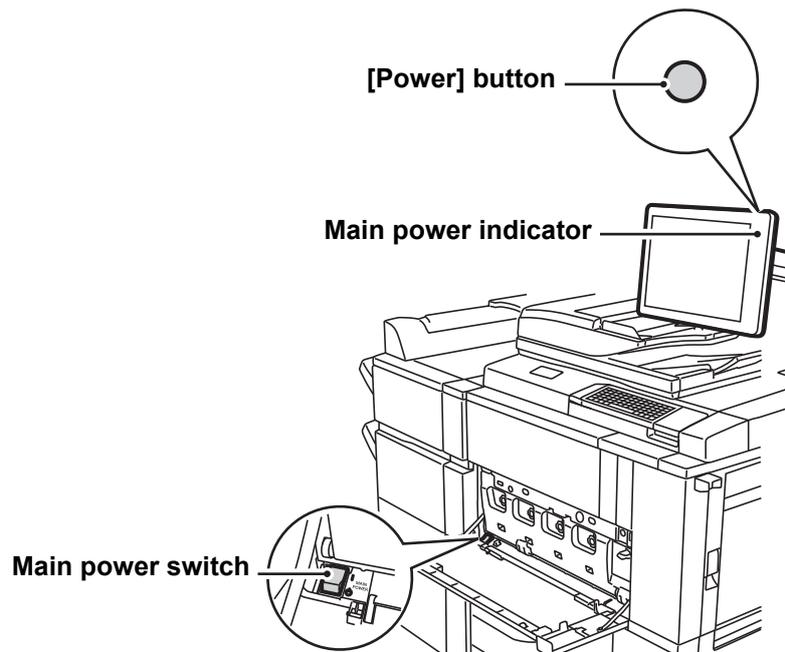
Main power switch

- When turning off the main power switch, press the [Power] button on the operation panel and then turn the main power switch to the " ⏻ " position.
  In a sudden case of main power outage, turn the power for the machine back on and then turn it off in the correct order. If the machine is left for a long time with the main power having been turned off prior to the [Power] button being turned off, abnormal noises, degraded image quality or other problems may result.
- Turn off both the [Power] button and the main power switch and unplug the power cord if you suspect a machine failure, if there is a bad thunderstorm nearby, or when you are moving the machine.

In order for some settings to take effect, the machine must be restarted. In some states of the machine, restarting with the [Power] button may not make the settings take effect. In this case, turn off the main power switch and then turn it on again.

SPECIFICATIONS

Basic Specifications / Copier Specifications

Name	MX-7090N/MX-8090N
Type	Console
Color	Full color
Copier system	Laser electrostatic copier
Resolution	Read (B/W): 600 x 600 dpi, 600 x 400 dpi Read (color): 600 x 600 dpi Write: 1200 x 1200 dpi (B/W only), 600 x 600 dpi, equivalent to 9600 dpi × 600 dpi
Gradation	Scan: equivalent to 256 levels Print: equivalent to 256 levels
Original paper sizes	Max. 11" x 17" (A3) for sheets and bound documents

Copy sizes	13" x 19" to 5-1/2" x 8-1/2"R (A3 wide to A5R),
	Transparency film, Heavy paper, Tab paper, Glossy paper, Custom
	Tray 1: 8-1/2" x 11", A4
	Tray 2: 8-1/2" x 11", A4
	Tray 3: 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4 x 10-1/2"R, A3 wide, A3, B4, A4 wide, A4, A4R, B5, B5R
	Tray 4: 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4 x 10-1/2"R, 5-1/2" x 8-1/2"R, A3 wide, A3, B4, A4 wide, A4, A4R, B5, B5R, A5R, Custom (5.875" to 18" x 4" to 12" (148 to 457 mm x 100 to 305 mm))
	Bypass*: 13" x 19", 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4 x 10-1/2"R, 5-1/2" x 8-1/2"R, A3 wide, A3, B4, A4 wide, A4, A4R, B5, B5R, A5R, SRA3, SRA4, Monarch, COM-9, COM-10, DL, C4, C5, C6, Custom (5.5" to 19.2" x 3.625" to 13" (140 to 488 mm x 90 to 330 mm))
	Lost margin
	  Leading edge: 11/64" ± 3/64" (4 mm ± 1 mm)
	  Trailing edge: 3/32" to 13/64" (2 mm to 5 mm)
	  Leading edge / Trailing edge: total 21/64" (8 mm) or less
	  Left edge / Right edge: total 11/64" ± 3/32" (4 mm ± 2 mm)
	Maximum print area: 12-9/16" x 50-7/8" (319 mm x 1292 mm)

Paper type	Tray 1/2: Plain
	Tray 3: Plain, Heavy paper (26 lbs. bond to 80 lbs. Cover (106 g/m² to 220 g/m²))
	Tray 4: Plain, Heavy paper (26 lbs. bond to 80 lbs. Cover (106 g/m² to 220 g/m²)), Transparency film, Label, Tab paper, Emboss
	Bypass*: Plain, Heavy paper (26 lbs. bond to 110 lbs. Cover (106 g/m² to 300 g/m²)), Transparency film, Label, Tab paper, Emboss, Thin paper, Envelope, Glossy paper
	Paper weight:
	  Tray 1/2: 16 lbs. bond to 28 lbs. bond (60 g/m² to 105 g/m²)
	  Tray 3/4: 16 lbs. bond to 80 lbs. Cover (60 g/m² to 220 g/m²)
	  Bypass*: 13 lbs. bond to 110 lbs. Cover (55 g/m² to 300 g/m²)
	• Some usage conditions or paper types may prevent correct printing.

Warm-up time	90 seconds • This may vary depending on the ambient conditions.

First-copy time

	MX-7090N		MX-8090N	
	B/W	Color	B/W	Color
Document cover	4.0 seconds	5.6 seconds	3.7 seconds	5.1 seconds
DSPF	6.5 seconds	9.2 seconds	6.3 seconds	8.8 seconds

This may vary depending on the state of the machine.
* Portrait feeding of 8-1/2" x 11" (A4) sheets.

Continuous copying speeds* (when shifter is not in operation)

(Unit: copies/min.)	MX-7090N (Color/B/W)	MX-8090N (Color/B/W)
8-1/2" x 11", A4, B5	70/70	80/80
SRA4	68/68	75/75
A4W	55/55	60/60
8-1/2" x 11"R, 7-1/4 x 10-1/2"R, 5-1/2 x 8-1/2"R, A4R, B5R, A5R	46/46	50/50
8-1/2" x 14", 8-1/2" x 13", 8-1/2" x 13-2/5", 8-1/2" x 13-1/2", B4	40/40	44/44
11" x 17", A3	36/36	38/38
12" x 18", A3 wide, SRA3	34/34	36/36
13" x 19"	37/37	41/41

* Continuous speed for same original source. Output may be temporarily interrupted to stabilize image quality.

Copy ratios	Same size: 1: 1 ± 0.5 %
	Enlarge (Inch size): 121 %, 129 %, 200 %, 400 %
	  (AB size: 115 %, 122 %, 141 %, 200 %, 400 %)
	Reduce (Inch size): 25 %, 50 %, 64 %, 77 %
	  (AB size: 25 %, 50 %, 70 %, 81 %, 86 %)
	Zoom range: 25 to 400 % in 1 % increments, total 376 increments. Can calculate zoom rate when mm is specified. (25 - 200 % using automatic document feeder)

Paper feed / capacity	1200 plus 800 plus 500 plus 500 (= 3000) sheets in 4 trays plus 100-sheet multi-bypass tray • Using 20 lbs. bond (80 g/m²) weight paper
Max. paper feed / max. capacity	13500 sheets in 4 trays (1200 + 800 + 500 x 2) plus large capacity trays (5000) plus large capacity trays (5000) plus 500-sheet multi-bypass tray • Using 20 lbs. bond (80 g/m²) weight paper
Continuous copy	Max. 9999 copies
Memory	Standard: 6 GB HDD: 1 TB 1 GB = One billion bytes when referring to hard drive capacity. Actual format capacity is less.
Ambient environment	Operating environment 50 °F to 95 °F (10 °C to 35 °C) (20 % to 85 % RH) 590 - 1,013 hPa Standard environment 69.8 °F to 77 °F (21 °C to 25 °C) (50 ± 10 % RH)
Required power supply	AC 208-240V/12A, 60Hz Power consumption MX-7090N/MX-8090N: Max. 2.88 kW (including options such as the desk)
Dimensions	38-43/64" (W) x 30-1/4" (D) x 60-1/4" (H) (982 mm (W) x 768 mm (D) x 1530 mm (H)) (When the operation panel and keyboard are set to the default position)
Weight	Approx. 493.4 lbs. (224 kg)
Overall dimensions	49-21/32" (W) x 30-1/4" (D) (1261 mm (W) x 768 mm (D)) (With multi-bypass tray extended, and the operation panel and keyboard are set to the default position)

* The bypass specifications are for the bypass tray on the machine. The specifications for the bypass tray for large capacity trays are indicated in a separate table that follows.

Automatic Document Feeder

Document feeder types	Duplex Single Pass Feeder (DSPF)
Original paper sizes	11" x 17" to 5-1/2" x 8-1/2" (A3 to A5)

Original paper types	Paper weight
	  Thin paper 9 lbs bond to 13 lbs bond (35 g/m² to 49 g/m²)
	  Plain paper 13 lbs bond to 34 lbs bond (50 g/m² to 128 g/m²)
	Two-sided
	  13 lbs index to 34 lbs bond (50 g/m² to 128 g/m²)

Paper storage capacity	150 sheets (20 lbs. bond (80 g/m²)) (or maximum stack height of 50/64" (19.5 mm))

Scan speed	Copy mode	B/W:	80 one-sided sheets/minute (600 x 400 dpi)
		Color:	53 one-sided sheets/minute (600 x 600 dpi)
		• When scanning one-sided, 8-1/2" x 11" (A4) vertical documents	
	Scan mode (300 dpi)	B/W:	100 sheets/minute (one-sided), 200 pages/minute (two-sided),
		Color:	100 sheets/minute (one-sided), 200 pages/minute (two-sided),
		• When in standard mode using Sharp standard paper (8-1/2" x 11" (A4) size with 6% coverage) and the auto color detector is turned off. The speed varies depending on the data volume of the original.	

Multi Bypass Tray

Name	Multi Bypass Tray (MX-MF11) (For large capacity trays)
Paper sizes	13" x 19" to 5-1/2" x 8-1/2"R (A3 wide to A5R) ,SRA3, SRA4
Useable paper	13 lbs bond to 80 lbs cover (55 to 220 g/m^2)
Paper capacity	500 sheets (20 lbs (80 g/m^2)) (or maximum stack height of 2-11/64" (55 mm))
Required power supply	Supplied from large capacity trays
Dimensions	When paper tray is closed 27-3/4" (W) x 21-57/64" (D) x 8" (H) (705 mm (W) x 556 mm (D) x 203 mm (H)) When paper tray is pulled out 34-9/16" (W) x 21-57/64" (D) x 8" (H) (878 mm (W) x 556 mm (D) x 203 mm (H))
Weight	Approx. 39.7 lbs (18 kg)

Large Capacity Tray

Name	Large Capacity Tray (MX-LC12)	Large Capacity Tray (MX-LCX3 N)
Paper sizes	8-1/2" x 11", A4, B5	13" x 19" to 8-1/2" x 11"R (A3 wide to B5)
Useable paper	16 lbs bond to 80 lbs cover (60 to 220 g/m^2)	16 lbs bond to 80 lbs cover (60 to 220 g/m^2)
Paper capacity	3500 sheets (20 lbs (80 g/m^2))	3000 sheets (20 lbs (80 g/m^2))
Required power supply	Supplied from the machine	Supplied from the machine
Dimensions	14-13/16" (W) x 22-43/64" (D) x 20-5/8" (H) (376 mm (W) x 576 mm (D) x 524 mm (H))	26-3/8" (W) x 22-7/16" (D) x 20-43/64" (H) (670 mm (W) x 570 mm (D) x 525 mm (H))
Weight	Approx. 63 lbs (28.5 kg)	Approx. 110 lbs (50 kg)

Large Capacity Trays

Name	Large Capacity Trays (MX-LC13 N)
Paper sizes	13" x 19" to 8-1/2" x 11" (A3 wide to B5R) ,SRA3, SRA4
Useable paper	13 lbs bond to 110 lbs cover (55 to 300 g/m^2)
Paper capacity	5000 sheets (2500 x 2 20 lbs (80 g/m^2))
Required power supply	AC 120V/15A ,60Hz
Dimensions	35-1/4" (W) x 30-1/32" (D) x 38-13/16" (H) (895 mm (W) x 763 mm (D) x 986 mm (H))
Weight	Approx. 288 lbs (131 kg)

Finisher (100-sheet stapling) / Saddle Stitch Finisher (100-sheet stapling)

Name	Finisher (MX-FN21) Saddle Stitch Finisher (MX-FN22)	
Paper sizes	Depends on feeder specifications	
Useable paper	Paper weight 13 lbs. to 110 lbs. Cover (55 g/m^2 to 300 g/m^2)	
No. of trays	MX-FN21: 3 (Upper tray / Middle tray / Lower tray) MX-FN22: 4 (Upper tray / Middle tray / Lower tray) + Saddle stitch tray	
Tray capacity (20 lbs. bond (80g/m^2))*	Upper tray Non-stapled	13" x 19", 12" x 18", 9" x 12", 11" x 17", 8-1/2" x 14", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R (SRA3, SRA4, A3 wide, A4 wide, A3, B4, A4R, B5R): 750 sheets 8-1/2" x 11", 5-1/2" x 8-1/2"R (A4, B5, A5R): 1500 sheets
	Staple function	11" x 17", 8-1/2" x 14", 8-1/2" x 11"R (A3, B4, A4R): 50 units or 750 sheets 8-1/2" x 11" (A4, B5): 100 units or 1500 sheets
	Middle tray Non-stapled	13" x 19", 12" x 18", 9" x 12", 11" x 17", 8-1/2" x 14", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R (SRA3, SRA4, A3 wide, A4 wide, A3, B4, A4R, B5R): 125 sheets 8-1/2" x 11", 5-1/2" x 8-1/2"R (A4, B5, A5R): 250 sheets (Offset output is not available)
	Lower tray Non-stapled	13" x 19", 12" x 18", 9" x 12", 11" x 17", 8-1/2" x 14",8-1/2" x 11"R, 7-1/4" x 10-1/2"R (SRA3, SRA4, A3 wide, A4 wide, A3, B4, A4R, B5R,): 750 sheets 8-1/2" x 11", 5-1/2" x 8-1/2"R (A4, B5, A5R): 1500 sheets 8-1/2" x 11" (A4, B5): 2450 sheets (Offset output is not available)
	Staple function	11" x 17", 8-1/2" x 14", 8-1/2" x 11"R (B4, A3, A4R): 50 units or 750 sheets 8-1/2" x 11" (A4, B5): 100 units or 1500 sheets
	Saddle stitch tray (MX-FN22) Non-stapled	16 lbs bond to 28 lbs bond (60 to 105 g/m^2): 5 sheets
	Staple function	16 lbs bond to 21 lbs bond (60 to 81.4 g/m^2): 5 units (16 to 20 sheets), 10 units (11 to 15 sheets), 15 units (6 to 10 sheets), 25 units (1 to 5 sheets) 21 lbs bond over to 28 lbs bond (81.4 g/m^2 over to 105 g/m^2): 15 units (6 to 10 sheets), 25 units (1 to 5 sheets)
	Staple function in cover mode	16 lbs bond to 21 lbs bond (60 to 81.4 g/m^2): 5 units (16 to 20 sheets), 10 units (1 to 15 sheets) 21 lbs bond over to 28 lbs bond (81.4 g/m^2 over to 105 g/m^2): 10 units (1 to 10 sheets)
	• Offset output is not available for 13" x 19", 12" x 18" / 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R (A3 wide, B5R, A5R).	
Max. no. of stapled sheets (20 lbs. bond (80g/m^2))	Max. no. of 100 sheets (8-1/2" x 11" (A4, B5)) Max. no. of 50 sheets (11" x 17", 8-1/2" x 14", 8-1/2" x 11"R (A3, B4, A4R))	
Staple position	Front: 1 position (slant), Back: 1 position (slant), Center: 2 positions	
Saddle Stitch (MX-FN22)	Staple method (for saddle stitch) Centered fold with stapling in 2 center places	
	Saddle stitch fold position Centered fold	
	Saddle usable sizes 13" x 19", 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11"R (SRA3, A3 wide, A3, B4, A4R)	
	Saddle usable paper weight 16 lbs bond (60 g/m^2) to 110 lbs cover (300 g/m^2) Paper weighting 28 lbs bond (106 g/m^2) to 110 lbs cover (300 g/m^2) is only able to be used in cover mode and for single sheet fold.	
	Max. no. of saddle-stitched sheets Max. no. of 20 sheets (20 lbs (80 g/m^2)): 19 sheets (20 lbs bond (80 g/m^2)) + 1 sheet (110 lbs cover (300 g/m^2))	

Required power supply	AC 120V/12A ,60Hz
Weight	MX-FN21: Approx. 134.5 lbs (61 kg) MX-FN22: Approx. 238.1 lbs (108 kg)

Dimensions	MX-FN21:
	  When output paper tray is stored
	    25-3/4" (W) x 30-1/8" (D) x 40-15/16" (H)
	    (654 mm (W) x 765 mm (D) x 1040 mm (H))
	  When output paper tray is extended
	    30-51/64" (W) x 30-1/8" (D) x 40-15/16" (H)
	    (782 mm (W) x 765 mm (D) x 1040 mm (H))
	MX-FN22:
	  When output paper tray is stored
	    30-13/64" (W) x 30-1/8" (D) x 40-15/16" (H)
	    (767 mm (W) x 765 mm (D) x 1040 mm (H))
	  When output paper tray is extended
	    35-9/32" (W) x 30-1/8" (D) x 40-15/16" (H)
	    (896 mm (W) x 765 mm (D) x 1040 mm (H))

* Output capacity may vary depending on environmental conditions at the installation location, the type of paper used, and the storage condition of the paper.

Punch Module (100-sheet stapling)

Name	Punch module (MX-PN13B)
Paper size for punch module	11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R (A3, A4, A4R)
Holes	2 holes / 3 holes (Auto select)
Required power supply	Supplied from finisher/saddle stitch finisher
Dimensions	3-3/4" (W) x 28-9/64" (D) x 9-7/16" (H) (95 mm (W) x 715 mm (D) x 392 mm (H))
Weight	Approx. 8.6 lbs (3.7 kg)

Paper Pass Unit

Name	Paper Pass Unit (MX-RB12 N)	Paper Pass Unit (MX-RB14)
Dimensions	21-5/8" (W) x 20-9/16" (D) x 5-61/64" (H) (549 mm (W) x 522 mm (D) x 151 mm (H))	18" (W) x 29-59/64" (D) x 41-27/64" (H) (457 mm (W) x 760 mm (D) x 1052 mm (H))
Weight	Approx. 13.5 lbs (6.1 kg)	Approx. 60.7 lbs (27.5 kg)

Relay Unit

Name	Relay Unit (MX-RB13)
Dimensions	8-7/16" (W) x 29-59/64" (D) x 38-13/16" (H) (214 mm (W) x 760 mm (D) x 986 mm (H))
Weight	Approx. 40 lbs (14.5 kg)

Curl Correction Unit

Name	Curl Correction Unit (MX-RB15)
Paper sizes	Depends on feeder specifications
Useable paper	Depends on feeder specifications
Required power supply	Supplied from the machine
Dimensions	8-7/16" (W) x 29-59/64" (D) x 38-13/16" (H) (214 mm (W) x 760 mm (D) x 986 mm (H))
Weight	Approx. 40.6 lbs (18.4 kg)

Trimming Module

Name	Trimming module (MX-TM10)
Useable size for trimming module	13" x 19", 12" x 18" (A3 wide), 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11"R, SRA3, A3, B4, A4R
Max. no. of sheets to be trimmed	1 to 20 sheets (16 lbs bond to 21 lbs bond (60 g/m^2 to 81.4 g/m^2)) 1 to 10 sheets (21 lbs bond over to 28 lbs bond (81.4 g/m^2 over to 105 g/m^2)) 1 to 3 sheets (28 lbs bond over to 80 lbs cover (105 g/m^2 over to 220 g/m^2)) When plain paper trimmed. Including one front cover of 110 lbs cover (300 g/m^2) or less.

Required power supply	Supplied from saddle stitch finisher
Dimensions	9-7/8" (W) x 24-15/32" (D) x 15-7/8" (H) (251 mm (W) x 625 mm (D) x 403 mm (H))
Weight	Approx. 70.6 lbs (32 kg)

Folding Unit

Name	Folding unit (MX-FD10)
Folding types	Z-Fold, C-Fold, Accordion Fold, Double Fold, Half Fold.
Useable size for folding unit	Z-Fold: 11" x 17", 8-1/2" x 14", 8-1/2" x 11"R, A3, B4, A4R C-Fold, Accordion Fold, Double Fold, Half Fold: 8-1/2" x 11"R, A4R
Useable paper	13 lbs bond to 28 lbs bond (55 g/m^2 to 105 g/m^2)
Tray capacity (20 lbs (80 g/m^2)) *	C-Fold/Accordion Fold/Double Fold 2-23/64" (60 mm) (Equivalent to 40 sheets. (Equivalent to 25 sheets for Double Fold)) Copies made in Z-Fold or Half Fold are output to the tray of the finisher (100-sheet stapling) or saddle stitch finisher (100-sheet stapling).
Required power supply	Supplied from finisher/saddle stitch finisher
Dimensions	13-15/32" (W) x 30-5/16" (D) x 41-11/32" (H) (336 mm (W) x 770 mm (D) x 1050 mm (H))
Weight	Approx. 145.5 lbs (66 kg)

Inserter

Name	Inserter (MX-CF11)
Useable size for inserter	13" x 19", 12" x 18", 9" x 12", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4 x 10-1/2"R, 5-1/2" x 8-1/2"R, A3 wide, A4 wide, A3, B4, A4, A4R, B5, B5R, A5R, SRA3, SRA4
Useable paper	16 lbs bond to 80 lbs cover (60 g/m^2 to 220 g/m^2)
No. of trays	2
Tray capacity (20 lbs (80 g/m^2))	Upper tray: 200 sheets Lower tray: 200 sheets
Required power supply	Supplied from the machine
Dimensions	21-1/4" (W) x 29-7/8" (D) x 50-1/4" (H) (540 mm (W) x 760 mm (D) x 1276 mm (H))
Weight	Approx. 99.2 lbs (45 kg)

Network Printer Specifications

Type	Built-in type
Continuous print speed	Same as continuous copy speed
Resolution	Data processing: 600 x 600 dpi, 1200 x 1200 dpi Print: 600 x 600 dpi, 1200 x 1200 dpi, equivalent to 9600 dpi × 600 dpi
Page description language	PCL6 emulation, Adobe® PostScript®3™
Compatible protocols	TCP/IP (LPD, Port9100, IPP, SMB, FTP, WSD, POP3<E-mail print>, HTTP)
Compatible OS	Windows Server 2008, Windows 7, Windows 8.1, Windows Server 2012, Windows 10, Windows Server 2016 Mac OS X (10.6, 10.7, 10.8, 10.9, 10.10, 10.11, 10.12)
Internal fonts	80 fonts for PCL, 139 fonts for Adobe® PostScript®3™
Memory	Machine system memory and hard disk
Interface	10BASE-T/100BASE-TX/1000BASE-T

Network Scanner Specifications

Type	Color scanner
Scan resolution (main x vertical)	100 x 100 dpi, 150 x 150 dpi, 200 x 200 dpi, 300 x 300 dpi, 400 x 400 dpi, 600 x 600 dpi (push scan) 50 to 9600 dpi *1 (pull scan)
Scan speed (8-1/2" x 11" (A4))	Refer to "Scan speed " in "Automatic Document Feeder".
Interface	10BASE-T/100BASE-TX/1000BASE-T, USB 2.0 (when an external memory device is used)

Compatible protocols	TCP/IP
Compatible OS *2	Pull scan (TWAIN) Windows Server 2008, Windows 7, Windows 8.1, Windows Server 2012, Windows 10, Windows Server 2016
Output format	(B/W) TIFF, PDF, PDF/A, encrypted PDF, XPS*3 , Searchable PDF, Office file (pptx, xlsx, docx), TXT (UTF-8), RTF Compression method: decompression, G3 (MH), G4 (MMR) (Gray scale/color) TIFF, JPEG, PDF, PDF/A, encrypted PDF, high compression PDF, XPS*3 , Searchable PDF, Office file (pptx, xlsx, docx), TXT (UTF-8), RTF Compression method: JPEG (high, mid, and low compression)
Driver	TWAIN compliant

*1: You must decrease the scan size when increasing the resolution.
*2: There are cases when a connection cannot be established. Please contact your local dealer for more information.
*3: XPS stands for XML Paper Specification.

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- For information on your operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in a Windows environment are primarily for Windows 8.1®. The screens may vary depending on the version of the operating system or the software application.
- The explanations of screens and procedures in a Mac OS environment are based on Mac OS X v10.10 in the case of Mac OS X. The screens may vary depending on the version of the operating system or the software application.
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Illustrations and the operation panel and touch panel shown in this manual

The peripheral devices are generally optional, however, some models include certain peripheral devices as standard equipment.
The explanations in this manual assume that a multi bypass tray, large capacity tray, saddle stitch finisher, punch module, and curl correction unit are installed on the MX-8090N.
For some functions and procedures, the explanations assume that devices other than the above are installed.

The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

SHARP

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