

DIGITAL FULL COLOUR MULTIFUNCTIONAL SYSTEM

# Safety Guide

Before installing this product, be sure to read the "CAUTIONS" and "INSTALLATION REQUIREMENTS" sections.

**CAUTIONS****INSTALLATION REQUIREMENTS****SUPPLIES****SPECIFICATIONS****INFORMATION ON DISPOSAL****TO THE ADMINISTRATOR OF THE MACHINE**

Keep this manual close at hand for reference whenever needed.

**Please see opposite side to access to "Software Setup Guide" and "Sharpdesk Installation Guide".**

**These manuals are combined for environmental protection.**

**Caution!**

For complete electrical disconnection, pull out the main plug.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

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

Required in IEC-950 (EN 60 950) - Europe

- The equipment should be installed near an accessible socket outlet for easy disconnection.

Required in Appendix ZB of BS 7002 (En 60 950) — United Kingdom

**MAINS PLUG WIRING INSTRUCTIONS**

The mains lead of this equipment is already fitted with a mains plug which is either a non-rewireable (moulded) or a rewireable type. Should the fuse need to be replaced, a BSI or ASTA approved fuse to BS1362 marked  or  and of the same rating as the one removed from the plug must be used.

Always refit the fuse cover after replacing the fuse on the moulded plug. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied either cut-off the moulded plug (if this type is fitted) or remove by undoing the screws if a rewireable plug is fitted and fit an appropriate type observing the wiring code below.

**DANGER:** The fuse should be removed from the cut-off plug and the plug destroyed immediately and disposed of in a safe manner. Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

**GREEN-AND-YELLOW:** Earth

**BLUE:** Neutral

**BROWN:** Live

As the colours of the wires in this mains lead may not correspond with coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured **GREEN-AND-YELLOW** must be connected to the terminal in the plug which is marked with the letter **E**, or by the safety earth symbol  , or coloured green or green-and-yellow.

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured black.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured red.

If you have any doubt, consult a qualified electrician.

**WARNING: THIS APPARATUS MUST BE EARTHEDE.**

**EMC (this machine and peripheral devices)****Warning:**

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

This machine contains the software having modules developed by Independent JPEG Group.

This product includes Adobe® Flash® technology of Adobe Systems Incorporated.

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## For the users of the fax function

### **FAX interface cable and Line cable:**

These special accessories must be used with the device.

The Declaration of Conformity can be viewed at the following URL address.

<http://www.sharp.de/doc/MX-FXX2.pdf>

## Contents

|  |          |  |           |
|--|----------|--|-----------|
| <b>CAUTIONS</b> .....  | <b>3</b> | Finisher specifications .....  | 13        |
| Laser information .....  | 5        | Punch module specifications (for finisher) .....   | 14        |
| <b>INSTALLATION REQUIREMENTS</b> .....                           | <b>6</b> | Printer specifications .....   | 14        |
| <b>SUPPLIES</b> .....  | <b>7</b> | Network scanner / Internet Fax specifications .....  | 15        |
| Storage of supplies. ....  | 7        | Pull scan function (TWAIN) specifications .....  | 15        |
| Supply of spare parts and consumables .....                      | 7        | Facsimile specifications .....   | 16        |
| <b>SPECIFICATIONS</b> .....                                      | <b>8</b> | <b>INFORMATION ON DISPOSAL</b> .....   | <b>17</b> |
| Machine specifications / copier specifications .....             | 8        | A. Information on Disposal for Users (private households) .....  | 17        |
| Continuous copying speeds .....                                  | 10       | B. Information on Disposal for Business Users .....  | 17        |
| Ambient environment .....  | 10       | <b>TO THE ADMINISTRATOR OF THE MACHINE</b> .....   | <b>20</b> |
| Acoustic noise emission (measurement according to ISO7779) ..... | 11       | Factory default passwords .....  | 20        |
| Automatic document feeder specifications .....                   | 11       | Forwarding all transmitted and received data to the administrator (document administration function) ..... | 20        |
| Exit tray unit (right tray) specifications .....                 | 11       | For the users of the fax function .....  | 20        |
| Stand/1x500 sheet paper drawer specifications .....              | 12       | Trademark acknowledgments .....  | 21        |
| Stand/2x500 sheet paper drawer specifications .....              | 12       |  |           |

### Note:

- Considerable care has been taken in preparing this manual. If you have any comments or concerns about the manual, please contact your dealer or nearest authorised service representative.
- This product has undergone strict quality control and inspection procedures. In the unlikely event that a defect or other problem is discovered, please contact your dealer or nearest authorised service representative.
- Aside from instances provided for by law, SHARP is not responsible for failures occurring during the use of the product or its options, or failures due to incorrect operation of the product and its options, or other failures, or for any damage that occurs due to use of the product.
- This manual contains references to the fax function. However, please note that the fax function is not available in some countries and regions.



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

### Warranty

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# CAUTIONS

## 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.

 **WARNING** Indicates a risk of death or serious injury.

 **CAUTION** Indicates a risk of human injury or property damage.

## Meaning of the symbols

 The  symbol indicates the need for caution. The specific matter that requires caution is indicated inside the symbol (the symbol at left indicates "caution: high temperature").

 The  symbol indicates an action that is prohibited. The specific action that is prohibited is indicated inside or beside the symbol (the symbol at left indicates "disassembly is prohibited").

 The  symbol indicates an action that is mandatory.

## ! 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 in the lower left corner of the left side of the machine.



**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 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 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.



**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 authorised service representative.



**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 authorised service representative. Using the machine in this condition may result in electrical shock or fire.



**Do not insert or remove the power plug with wet hands.**

This may cause electrical shock.



**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.



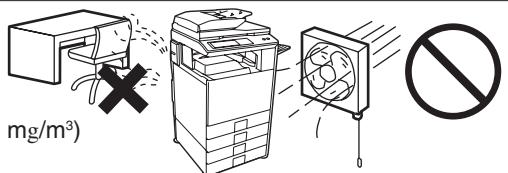
# ! CAUTION

**Do not install the machine in a location with poor ventilation. Install so that exhaust from the machine does not directly contact people.**

A small amount of ozone is produced within the printer during operation. The emission level is insufficient to cause any health hazard.

The present recommended long term exposure limit for ozone is 0.1 ppm (0.2 mg/m<sup>3</sup>) calculated as an 8 hr. time-weighted average concentration.

However, since the small amount that is emitted may have an objectionable odor, it is advisable to place the copier in a ventilated area.



**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. (Weight when various peripheral devices are installed: approx. 130 kg (287 lbs.))



**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.



**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.



**Do not throw toner, a toner container (toner cartridge), or a waste toner box into a fire.**

Toner may fly and cause burns.



**Do not install in a location with moisture or dust.**

Risk of fire and electrical shock.



**Store toner, toner containers (toner cartridges), and waste toner boxes out of the reach of children.**



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.

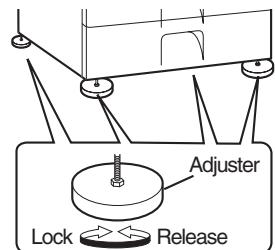
With the exception of instances provided for by law, Sharp Corporation bears no responsibility for any damages or loss due to the loss of stored document data.

**When the machine is installed, the adjusters (4) must be lowered to the floor to secure the machine (prevent it from moving).**

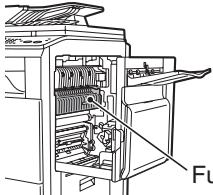
Rotate the adjusters in the locking direction until they are in firm contact with the floor.

**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.**

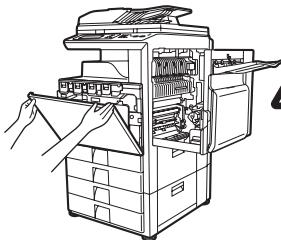
(After moving the machine, lower the adjusters again to secure the machine.)



**The fusing unit is hot. When removing a misfeed, do not touch the fusing unit. 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 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, creating a risk of fire or electrical shock.



## Laser information

|   |                                |
|---|--------------------------------|
| Wave length                               | 790 nm $\pm$ 10 nm             |
| Pulse times<br>(North America and Europe) | 4.6 $\mu$ s $\pm$ 4.6 ns /7 mm |
| Output power                              | Max 0.6 mW (LD1+LD2)           |

**Caution**

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

This Digital Equipment is CLASS 1 LASER PRODUCT (IEC 60825-1 Edition 1.2-2001)

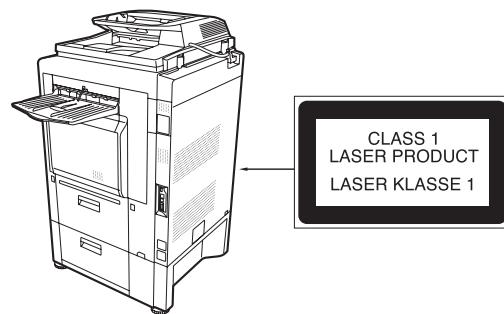
For Europe:

CLASS 1 LASER PRODUCT

LASER KLASSE 1

LUOKAN 1 LASERLAITE

KLASS 1 LASERAPPARAT



# INSTALLATION REQUIREMENTS

The performance of the machine is affected by the ambient conditions of the installation location. Do not install in the following locations:

## CAUTION:

### 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 is not exposed to direct sunlight.

### Locations that are excessively hot, cold, humid, or dry (near heaters, humidifiers, air conditioners, etc.)



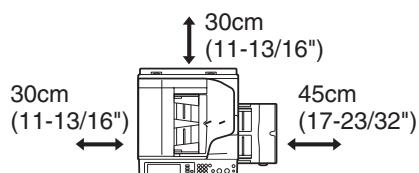
The paper will become damp and condensation may form inside the machine, causing misfeeds and dirty output.

 Ambient environment (page 10)

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.

### 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. The indicated distances are for the case when a saddle finisher and large capacity paper tray are not installed.)



**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.**

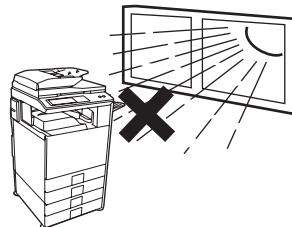
- The machine should be installed near an accessible power outlet for easy connection.
- Connect the machine to a power outlet which is not used for other electric appliances. If a lighting fixture is connected to the same outlet, the light may flicker.

### Dusty locations



If dust enters the machine, dirty output and machine failure may result.

### Locations exposed to direct sunlight



Plastic parts may become deformed and dirty output may result.

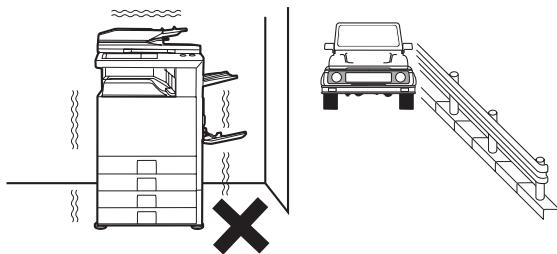
### Locations with ammonia gas



Installing the machine next to a diazo copy machine may cause dirty output.

### Locations subject to vibration.

Vibration may cause failure.

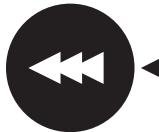


# SUPPLIES

Standard supplies for this product that can be replaced by the user include paper, toner cartridges, and staple cartridges for the finisher.

Be sure to use only SHARP-specified products for the toner cartridges, finisher staple cartridge, and transparency film.

**SHARP**



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.

GENUINE SUPPLIES

## 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. Do not store it 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.

### Staple cartridge

The finisher requires the following staple cartridge:

MX-SCX1

Approx. 5000 per cartridge x 3 cartridges

## 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.

# SPECIFICATIONS

## Machine specifications / copier specifications

|                                  |   |  |
|----------------------------------|---|--|
| <b>Name</b>                      | Digital Full Colour Multifunctional System MX-2301N   |  |
| <b>Type</b>                      | Desktop   |  |
| <b>Photoconductive type</b>      | OPC drum  |  |
| <b>Printing method</b>           | Electrophotographic system (laser)  |  |
| <b>Developer system</b>          | Dry-type two-component magnetic brush development   |  |
| <b>Fusing system</b>             | Heat rollers  |  |
| <b>Scanning resolution</b>       | Document glass  | Black and white scanning: 600 x 300 dpi (factory default values),<br>600 x 400 dpi, 600 x 600 dpi<br>Colour scanning: 600 x 600 dpi (factory default values) |
|                                  | Reversing single pass feeder (automatic document feeder)  | Black and white scanning: 600 x 400 dpi (factory default values), 600 x 600 dpi<br>Colour scanning: 600 x 600 dpi (factory default values)                   |
| <b>Printing resolution</b>       | 600 x 600 dpi   |  |
| <b>Scanning gradation</b>        | 256 levels  |  |
| <b>Printing gradation</b>        | Equivalent to 256 levels  |  |
| <b>Original sizes / types</b>    | Max. A3 (11" x 17") / sheets, bound documents   |  |
| <b>Copy sizes</b>                | Maximum: A3W (12" x 18") Minimum: A5R (5-1/4" x 5-3/4")   |  |
| <b>Print margins</b>             | Leading edge / trailing edge: total 8 mm (21/64") or less,<br>near edge / far edge: total 4 mm ±2 mm (11/64" ±3/32") or less  |  |
| <b>Warm-up time</b>              | 60 seconds or less (This may vary depending on the ambient conditions.)   |  |
| <b>First-copy time*</b>          | Colour copy time: 8.9 seconds or less<br>Black and white copy time: 6.0 seconds or less<br>(Portrait feeding of A4 (8-1/2" x 11") sheets. This may vary depending on the state of machine.)   |  |
| <b>Copy ratios</b>               | Variable: 25% to 400% in increments of 1%, total 376 increments (25% to 200% when the automatic document feeder is used)<br>Fixed presets: 25%, 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200% and 400% for AB sizes;<br>25%, 50%, 64%, 77%, 100%, 121%, 129%, 200% and 400% for inch sizes.<br>Two reduction ratios and two enlargement ratios can be stored.  |  |
| <b>Continuous copy</b>           | 999 copies  |  |
| <b>Automatic document feeder</b> | See "Automatic document feeder specifications".   |  |
| <b>Tray 1 / Tray 2</b>           | Paper sizes: A3, B4, A4, A4R, B5, B5R, A5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2",<br>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,<br>5-1/2" x 8-1/2"R, 8K, 16K, 16KR<br>Paper weight: Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to<br>209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index))<br>Paper capacity: Plain paper (80 g/m <sup>2</sup> (21 lbs.)) 500 sheets, heavy paper 200 sheets<br>Paper types: SHARP-recommended plain paper, recycled paper, coloured paper, and heavy paper |  |

\* First copy out time is measured with original on the document glass in full ready condition with fuser at operating temperature and mirror motor at operating speed in each of black and white mode and colour mode, actual time may vary based on environment conditions.

## Machine specifications / copier specifications (Continued)

|                                  |   |
|----------------------------------|---|
| <b>Bypass tray</b>               | Paper sizes: A3W, A3, B4, A4, A4R, B5, B5R, A5R, envelopes, 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, 8K, 16K, 16KR (Includes automatic paper size detection function. Entry of paper sizes up to 297 mm x 432 mm (11-5/8" x 17") is possible.)   |
|                                  | Paper weights:<br>Thin paper (55 g/m <sup>2</sup> to 59 g/m <sup>2</sup> (15 lbs. to 16 lbs.)), plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 256 g/m <sup>2</sup> (28 lbs. bond to 140 lbs. index)), envelopes (75 g/m <sup>2</sup> to 90 g/m <sup>2</sup> (20 lbs. to 24 lbs.))  |
|                                  | Paper capacity: Standard paper 100 sheets   |
|                                  | Paper types:<br>SHARP-recommended plain paper, recycled paper, coloured paper, heavy paper, thin paper, transparency film, envelopes (Monarch, Com-10, DL, C5)  |
| <b>Duplex module</b>             | Paper sizes: A3, B4, A4, A4R, B5, B5R, A5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR<br>Paper weight: Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index))<br>Paper types: SHARP-recommended plain paper, recycled paper, coloured paper, and heavy paper |
| <b>Output tray (Center tray)</b> | Output method: Face-down output (A3W and 12" x 18" paper can be output to right tray, or finisher)<br>Output capacity: 500 sheets (using SHARP-recommended A4 or 8-1/2" x 11" paper)<br>(The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper.)<br>Tray full sensor: Yes   |
| <b>Interface port</b>            | LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T<br>USB connectivity: Type A connector supports USB 2.0*<br>Compatibility requirements of USB memory<br>Memory capacity: Max. 32 GB<br>Disk Format: FAT32 only<br>Type B connector supports USB 2.0 (Hi speed)  |
| <b>Required power supply</b>     | Local voltage $\pm 10\%$ (For the power supply requirements, see the name plate in the lower corner of the left side of the machine.)   |
| <b>Power consumption</b>         | 220-240V: 1.84 kW / 100-127V: 1.44 kW   |
| <b>Dimensions</b>                | 620 mm (W) x 670 mm (D) x 950 mm (H) (24-13/32" (W) x 26-3/8" (D) x 37-25/64" (H))  |
| <b>Weight</b>                    | Approx. 116 kg (255.8 lbs.)   |
| <b>Overall dimensions</b>        | 970 mm (W) x 670 mm (D) (38-3/16" (W) x 26-3/8" (D)) (when bypass tray is extended)   |

\* Type A connectors are located on the front of the machine and on the right side of the machine at the back (total of two connectors); however, the connectors cannot be used simultaneously. Only one of the connectors can be used. If you need to change the connector that is used, contact your service technician.

To receive power supplied from a type A connector, the total current consumption of the connected device should not exceed 500 mA.

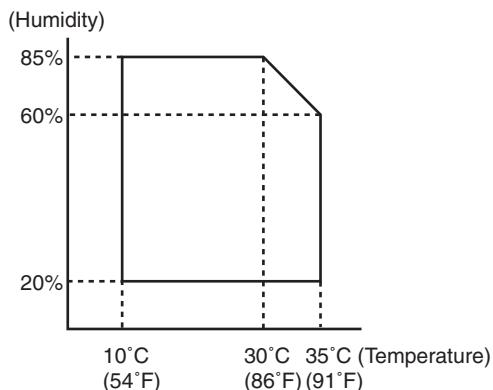
## SPECIFICATIONS

### Continuous copying speeds\*

| Model  | MX-2301N                  |                         |
|--|---------------------------|-------------------------|
| Copy ratio   | 100% / Reduced / Enlarged |                         |
| Copy mode  | Colour copying            | Black and white copying |
| A3, 11" x 17", 8K  | 12 copies/min.            | 12 copies/min.          |
| B4, 8-1/2" x 14",<br>8-1/2" x 13"  | 14 copies/min.            | 14 copies/min.          |
| A4, B5, 8-1/2" x 11", 16K  | 23 copies/min.            | 23 copies/min.          |
| A4R, B5R, A5R,<br>8-1/2" x 11"R,<br>7-1/4" x 10-1/2"R,<br>5-1/2" x 8-1/2"R, 16KR | 16 copies/min.            | 16 copies/min.          |

\* Copy speed during output of the second copy and following copies when performing continuous one-sided copying of the same page (excluding offset output) using plain one-sided paper from a tray other than the bypass tray.

### Ambient environment



## Acoustic noise emission (measurement according to ISO7779)

|   |                            |   |
|---|----------------------------|---|
| Sound power level L <sub>WA</sub>                         |                            |   |
| <b>Printing mode (continuous printing)</b>                |                            | 6.5 B   |
| <b>Standby mode</b>                                       |                            | 5.7 B   |
| Sound pressure level L <sub>PA</sub> (actual measurement) |                            |   |
| <b>Printing mode</b>                                      | <b>Bystander positions</b> | Colour: 50 dB (A)<br>Black and white: 50 dB (A) |
|   | <b>Operator positions</b>  | Colour: 50 dB (A)<br>Black and white: 50 dB (A) |
| <b>Standby mode</b>                                       | <b>Bystander positions</b> | 24 dB (A)                                       |
|   | <b>Operator positions</b>  | 22 dB (A)                                       |

## Automatic document feeder specifications

|                        |  |
|------------------------|--|
| <b>Original sizes</b>  | A3 to A5, 11" x 17" to 5-1/2" x 8-1/2", long paper<br>(max. width 297 mm (11-5/8") x max. length 1000 mm* (39-23/64"), scanning in mono 2 mode of one side only is possible in fax and image scan modes)   |
| <b>Original weight</b> | One-sided 35 g/m <sup>2</sup> to 128 g/m <sup>2</sup> (9 lbs. to 32 lbs.) (Original weights from 35 g/m <sup>2</sup> (9 lbs.) to 49 g/m <sup>2</sup> (13 lbs.) require the use of slow scan mode.)<br>Two-sided 50 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (13 lbs. to 28 lbs.) |
| <b>Capacity</b>        | 100 sheets (80 g/m <sup>2</sup> (21 lbs.)) Maximum stack height of 13 mm (33/64")  |

\* Scanning in mono 2 mode of one side only is possible in fax and scan send modes. However, when the resolution is 600 x 600 dpi in Internet fax mode, the maximum length is 800 mm (31-31/64"). When the resolution is 400 x 400 dpi or 600 x 600 dpi in scan mode, a long original cannot be scanned.

## Exit tray unit (right tray) specifications

|                         |   |
|-------------------------|---|
| <b>Model</b>            | MX-TRX1   |
| <b>Output method</b>    | Face-down output  |
| <b>Output capacity*</b> | 100 sheets (using SHARP-recommended A4 or 8-1/2" x 11" paper)   |
| <b>Dimensions</b>       | When tray is folded up:<br>289 mm (W) x 405 mm (D) x 52 mm (H) (11-3/8" (W) x 15-61/64" (D) x 2-3/64" (H))<br>When tray is extended:<br>419 mm (W) x 405 mm (D) x 52 mm (H) (16-1/2" (W) x 15-61/64" (D) x 2-3/64" (H)) |
| <b>Weight</b>           | Approx. 0.93 kg (2 lbs.)  |

\* The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper. Envelopes, tab paper, and glossy paper cannot be output.

## SPECIFICATIONS

### Stand/1x500 sheet paper drawer specifications

|                                       |   |
|---------------------------------------|---|
| <b>Model</b>                          | MX-DEX6   |
| <b>Paper sizes</b>                    | A3, B4, A4, A4R, B5, B5R, 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, 8K, 16K, 16KR  |
| <b>Paper weight</b>                   | Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index))   |
| <b>Paper capacity</b>                 | 500 sheets (80 g/m <sup>2</sup> (21 lbs.)) x 1 tray   |
| <b>Paper types</b>                    | SHARP-recommended plain paper, recycled paper, and coloured paper   |
| <b>Automatic paper size detection</b> | When "Auto-AB" detection is selected:<br>A3, B4, A4, A4R, B5, B5R, 216 mm x 330 mm (8-1/2" x 13")<br>When "Auto-Inch" detection is selected:<br>11" x 17", 8-1/2" x 14", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R |
| <b>Power supply</b>                   | Supplied from the machine   |
| <b>Dimensions</b>                     | 720 mm (W) x 670 mm (D) x 303 mm (H) (28-11/32" (W) x 26-3/8" (D) x 11-15/16" (H))<br>(including adjuster)  |
| <b>Weight</b>                         | Approx. 20 kg (44.1 lbs.)   |

### Stand/2x500 sheet paper drawer specifications

|                                       |   |
|---------------------------------------|---|
| <b>Model</b>                          | MX-DEX7   |
| <b>Paper sizes</b>                    | A3, B4, A4, A4R, B5, B5R, 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, 8K, 16K, 16KR  |
| <b>Paper weight</b>                   | Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index))   |
| <b>Paper capacity</b>                 | 500 sheets (80 g/m <sup>2</sup> (21 lbs.)) x 2 tray   |
| <b>Paper types</b>                    | SHARP-recommended plain paper, recycled paper, and coloured paper   |
| <b>Automatic paper size detection</b> | When "Auto-AB" detection is selected:<br>A3, B4, A4, A4R, B5, B5R, 216 mm x 330 mm (8-1/2" x 13")<br>When "Auto-Inch" detection is selected:<br>11" x 17", 8-1/2" x 14", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R |
| <b>Power supply</b>                   | Supplied from the machine   |
| <b>Dimensions</b>                     | 720 mm (W) x 670 mm (D) x 303 mm (H) (28-11/32" (W) x 26-3/8" (D) x 11-15/16" (H))<br>(including adjuster)  |
| <b>Weight</b>                         | Approx. 23.5 kg (51.9 lbs.)   |

## Finisher specifications

|  |  |  |
|--|--|--|
| <b>Model</b>                                       | MX-FNX9  |  |
| <b>Paper sizes</b>                                 | A3W, A3, B4, A4, A4R, B5, B5R, A5R, envelopes, 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, 8K, 16K, 16KR   |  |
| <b>Paper weight</b>                                | Thin paper (55 g/m <sup>2</sup> to 59 g/m <sup>2</sup> (15 lbs. to 16 lbs.)) plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)) heavy paper (106 g/m <sup>2</sup> to 256 g/m <sup>2</sup> (28 lbs. bond to 140 lbs. index)), envelopes (75 g/m <sup>2</sup> to 90 g/m <sup>2</sup> (20 lbs. to 24 lbs.)) |  |
| <b>Modes</b>                                       | Non-staple, staple   |  |
| <b>Allowed paper sizes for offset</b>              | A3, B4, A4, A4R, B5, 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, 8K, 16K   |  |
| <b>Offset distance</b>                             | 30 mm (1-3/16")  |  |
| <b>Tray capacity*1</b>                             | Non-stapling*2:<br>500 sheets*3 (A4, A4R, B5, B5R, A5R,<br>8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R,<br>5-1/2" x 8-1/2"R, 16K, 16KR)<br>250 sheets*4 (A3W, A3, B4, 12" x 18", 11" x 17",<br>8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5",<br>8-1/2" x 13", 8K)   | Stapling*5:<br>30 sets or 500 sheets*3 (A4, A4R, B5,<br>8-1/2" x 11", 8-1/2" x 11"R, 16K, 16KR)<br>30 sets or 250 sheets*4 (A3, B4, 11" x 17",<br>8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5",<br>8-1/2" x 13", 8K) |
| <b>Power supply</b>                                | Supplied from the machine  |  |
| <b>Dimensions</b>                                  | 440 mm (W) x 595 mm (D) x 205 mm (H) (17-21/64" (W) x 23-27/64" (D) x 8-5/64" (H))<br>(When tray is folded up)   |  |
| <b>Weight</b>                                      | Approx. 13 kg (28.7 lbs.)  |  |
| <b>Overall dimensions when attached to machine</b> | 1060 mm (W) x 670 mm (D) (41-23/32" (W) x 26-3/8" (D)) (When tray is extended)   |  |
| Stapler section                                    |  |  |
| <b>Allowed paper sizes for stapling</b>            | A3, B4, A4, A4R, B5, 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, 8K, 16K, 16KR<br>(Three stapling positions: one staple at bottom left corner, one staple at top left corner, and two staples.)  |  |
| <b>Maximum number of sheets for stapling*5</b>     | 50 sheets (A4, A4R, B5, 8-1/2" x 11", 8-1/2" x 11"R, 16K, 16KR)<br>30 sheets (A3, B4, 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", 8K)<br>(30 sheets when the sheets are the same width but different lengths.)  |  |

\*1 The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper.

\*2 Up to 10 envelopes can be output.

\*3 The height of the sheets must not exceed 71 mm (2-51/64").

\*4 The height of the sheets must not exceed 35.5 mm (1-13/32").

\*5 The maximum number of sheets for stapling assumes a paper weight of 90 g/m<sup>2</sup> (24 lbs.) and includes two cover sheets of 106 g/m<sup>2</sup> to 256 g/m<sup>2</sup> (28 lbs. bond to 140 lbs. index).

### Note:

Special media such as transparency film and label sheets cannot be stapled or punched.

## SPECIFICATIONS

### Punch module specifications (for finisher)

| Model                                   | MX-PNX1A  | MX-PNX1B   | MX-PNX1C | MX-PNX1D   |
|---|---|--|----------|--|
| <b>Hole punching</b>                    | 2 holes   | 2 holes or 3 holes   | 4 holes  | 4 holes, broad width   |
| <b>Allowed paper sizes for punching</b> | A3, B4, A4, A4R, B5, B5R, 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 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2", 8K, 16K, 16KR | 2 holes:<br>8-1/2" x 14",<br>8-1/2" x 13-1/2",<br>8-1/2" x 13-2/5",<br>8-1/2" x 13",<br>8-1/2" x 11"R,<br>7-1/4" x 10-1/2"<br>3 holes:<br>11" x 17", 8-1/2" x 11",<br>A3, A4 | A3, A4   | A3, B4, A4, A4R, B5, B5R, 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" |
| <b>Punchable paper weights</b>          | 55 g/m <sup>2</sup> to 128 g/m <sup>2</sup> (16 lbs. to 32 lbs.)  |  |          |  |
| <b>Power supply</b>                     | Supplied from finisher  |  |          |  |
| <b>Dimensions</b>                       | 105 mm (W) x 518 mm (D) x 170 mm (H) (4-9/64" (W) x 20-25/64" (D) x 6-45/64" (H))   |  |          |  |
| <b>Weight</b>                           | Approx. 3.5 kg (7.7 lbs.)   |  |          |  |

### Printer specifications

|  |   |  |
|--|---|--|
| <b>Type</b>                                  | Built-in  |  |
| <b>Continuous printing speed</b>             | Same as continuous copying speed (When printing same document continuously on A4 (8-1/2" x 11") plain paper in non-offset mode, excluding processing time.) |  |
| <b>Printing resolution</b>                   | 600 x 600 dpi   |  |
| <b>Printer driver type</b>                   | PCL6, PostScript 3 compatible*1   |  |
| <b>Supported protocols</b>                   | TCP/IP, IPX/SPX, NetBEUI, EtherTalk*1   |  |
| <b>Supported client PC operating systems</b> | See "VERIFYING SYSTEM REQUIREMENTS" in the Safety Guide / Software Setup Guide.   |  |
| <b>Fonts</b>                                 | PCL6  | 80 European fonts, 28 barcode fonts*2, 1 bitmap font |
|  | PostScript 3 compatible*1   | 136 European fonts                                   |
| <b>Interface port</b>                        | LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T<br>USB connectivity: Supports USB 2.0 (Hi speed)*3   |  |
| <b>Memory</b>                                | Standard system memory: 512 MB  |  |
| <b>Print area</b>                            | Entire page excluding margin of 4.2 mm (11/64") at each edge. The actual print area may vary depending on the printer driver and the software application.  |  |

\*1 When the PS3 expansion kit is installed and the machine is used as a PostScript printer.

\*2 Barcode font kit is required.

\*3 Supported operating systems are Windows 2000 / XP / Vista.

## Network scanner / Internet Fax\*1 specifications

|                           |   |  |
|---------------------------|---|--|
| Type                      | Built-in  |  |
| Scanning resolution (dpi) | 100 x 100, 200 x 200, 300 x 300, 400 x 400, 600 x 600<br>Internet Fax: 200 x 100, 200 x 200, 200 x 400, 400 x 400, 600 x 600 (200 x 100, 200 x 200 when file type is TIFF-S) Halftone can be selected for resolutions other than 200 x 100 dpi. |  |
| Scanning speed            | Colour (A4 / 8-1/2" x 11") One-sided: 50 pages/min. (200 x 200 dpi),<br>Two-sided: 16 pages/min. (200 x 200 dpi)<br>Black and white (A4 / 8-1/2" x 11") One-sided: 50 pages/min. (200 x 200 dpi),<br>Two-sided: 16 pages/min. (200 x 200 dpi)   |  |
| Interface port            | LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T  |  |
| Supported protocols       | TCP/IP (IPv4)   |  |
| File formats              | Colour<br>(including greyscale)   | File types: TIFF, JPEG, PDF, Encrypted PDF, XPS<br>Compression ratio: High / Medium / Low      |
|                           | Black and white   | File types: TIFF, PDF, Encrypted PDF, XPS<br>Compression modes: None / Medium (G3) / High (G4) |
|                           | Internet Fax<br>(black and white only)  | File types: TIFF-FX (TIFF-F, TIFF-S)<br>Compression modes: Medium (G3) / High (G4)             |
| Remarks                   | Number of one-touch keys for<br>storing destinations*2  | Maximum number of keys: 999  |
|                           | Number of destinations that can be<br>stored in a group (1 key)*2   | Maximum number of destinations in one group (1 key): 500                                       |
|                           | Scan destinations   | Scan to E-mail / Scan to FTP / Scan to Desktop / Scan to<br>Network Folder                     |

\*1 Internet fax expansion kit is required.

\*2 Total number of all destinations (Scan to E-mail, Scan to FTP, Scan to Desktop, Scan to Network folder, Internet Fax, Fax, and Group)

## Pull scan function (TWAIN) specifications

|  |   |
|--|---|
| Supported protocol                       | TCP/IP (IPv4)   |
| Supported client PC<br>operating systems | Windows 2000 / XP / Server 2003 / Vista / Server 2008   |
| Colour modes                             | Full Colour, Greyscale, Mono Diffusion, Mono 2 gradation  |
| Resolution settings                      | 75 dpi, 100 dpi, 150 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi<br>(The resolution can be specified by entering a numerical value from 50 to 9600 dpi. However, when a high resolution is specified, it is necessary to reduce the scanning area.) |
| Scanning area                            | Maximum: A3 (11" x 17")   |

## Facsimile specifications

|   |  |  |
|---|--|--|
| <b>Model</b>  | MX-FXX2  |  |
| <b>Applicable telephone line</b>                      | Public switched telephone network, PBX   |  |
| <b>Scanning resolution (supports ITU-T standards)</b> | 8 x 3.85 lines/mm (Standard), 8 x 7.7 lines/mm (Fine, Fine-Halftone), 8 x 15.4 lines/mm (Super Fine, Super Fine - Halftone), 16 x 15.4 lines/mm (Ultra Fine, Ultra Fine - Halftone)  |  |
| <b>Transmission speed</b>                             | 33.6 kbps down to 2.4 kbps Automatic fallback  |  |
| <b>Compression method</b>                             | MH / MR / MMR / JBIG   |  |
| <b>Transmission modes</b>                             | Super G3, G3 (the machine can only send faxes to and receive faxes from machines that support G3 or Super G3)  |  |
| <b>Input document size</b>                            | AB sizes: A3, B4, A4, A4R, B5, B5R, A5, 216 mm x 340 mm, 216 mm x 343 mm<br>Inch sizes: 11" x 17", 8-1/2" x 14", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2"<br>Long originals (max. width 297 mm (11-45/64") x max. length 1000 mm (39-23/64") can be transmitted using the automatic document feeder. Scanning one side is possible.) |  |
| <b>Paper sizes</b>                                    | A3, B4, A4, A4R, B5, B5R, A5R (11" x 17", 8-1/2" x 14", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2"R)   |  |
| <b>Transmission time *1</b>                           | Approx. 2 seconds (Super G3 mode/33.6 kbps, JBIG)<br>Approx. 6 seconds (G3 ECM mode/14.4 kbps)   |  |
| <b>Power supply</b>                                   | Supplied from the machine  |  |
| <b>Dimensions</b>                                     | 192 mm (W) x 52 mm (D) x 215 mm (H) (7-9/16" (W) x 2-3/64" (D) x 8-15/32" (H))   |  |
| <b>Weight</b>   | Approx. 1.0 kg (2.2 lbs.)  |  |
| <b>Remarks</b>  | Extension telephone connection   | Possible (1 telephone)   |
|   | Number of one-touch keys for storing destinations*2  | Maximum number of keys: 999  |
|   | Number of destinations that can be stored in a group (1 key)*2   | Maximum number of destinations in one group (1 key): 500                                       |
|   | Timer transmission   | Yes  |
|   | Program function   | Yes (48 programs)  |
|   | F-code transmission  | Supported (SUB/SEP (sub-address) and SID/PWD (passcode) signals can be transmitted / received) |
|   | Image memory   | 8 MB standard  |

\*1 Transmission speed is for an A4 or 8-1/2" x 11" document with approximately 700 characters at standard resolution (8 x 3.85 lines/mm) sent in high speed mode (33.6 kbps (JBIG) or 14.4 kbps). This is only the time required to transmit the image information; the time required to send protocol signals is not included. Actual transmission times will vary depending on the contents of the document, the receiving machine type, and telephone line conditions.

\*2 Total number of all destinations (Scan to E-mail, Scan to FTP, Scan to Desktop, Scan to Network folder, Internet Fax, Fax and Group)

# INFORMATION ON DISPOSAL

## A. Information on Disposal for Users (private households)

### 1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

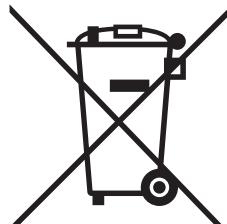
Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge\*. In some countries\* your local retailer may also take back your old product free of charge if you purchase a similar new one.

\*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

### 2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of [www.swico.ch](http://www.swico.ch) or [www.sens.ch](http://www.sens.ch).

## B. Information on Disposal for Business Users.

### 1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

### 2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.



Administrator

Name:

Contact at:

Information that the administrator of the machine requires is printed on the back of this page.

(Separate this page from the manual and keep it in a safe place. In addition, fill in the name of the administrator and the administrator's contact information in the left hand margin.)

# TO THE ADMINISTRATOR OF THE MACHINE

(Separate this page from the manual and keep it in a safe place.)

## Factory default passwords

When accessing the system settings, the administrator password is required to log in with administrator rights. The system settings can be configured in the Web pages as well as on the operation panel. To access the system settings using the Web pages, a password is also required.

### Factory default administrator password

#### Factory default setting: admin

Store a new administrator password as soon as the machine is installed.

Once the administrator password has been changed, the new password is required to restore the factory default password. Take care to remember the new password.

#### Factory default passwords (Web pages)

There are two factory default accounts: "Administrator" and "User". A person who logs in as an "Administrator" can configure all settings in the Web pages. In addition, an administrator can restrict access to other settings by enabling "User" accounts.

The factory default passwords are shown below.

|               | Factory default account | Factory default password |
|---------------|-------------------------|--------------------------|
| User          | users                   | users                    |
| Administrator | admin                   | admin                    |

## 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, Scan to Network Folder destination, or Scan to Desktop 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 [Application Settings] and then [Document Administration Function] in the Web page menu. (Administrator rights are required.)

#### Note:

- The format, exposure, and resolution settings of transmitted and received data remain in effect when the data is forwarded.
- When forwarding is enabled for data sent in fax mode,
  - The [Direct TX] key does not appear in the touch panel.
  - Quick online transmission and dialling using the speaker cannot be used.

## For the users of the fax function

### Important safety instructions

- 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 AC power outlet shall be installed near the equipment and shall be easily accessible.
- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use a telephone to report a gas leak in the vicinity of the leak.
- Do not install or use the machine near water, or when you are wet. Take care not to spill any liquids on the machine.

## Trademark acknowledgments

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**SHARP ELECTRONICS (Europe) GmbH**  
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**1** **Quit any software applications and/or resident programs that are running on your computer.**

SHARP TWAIN AR/DM cannot be used in Windows Vista.

**2** **Insert the "Disc 1" CD-ROM into your CD-ROM drive.**

• If the Sharpdesk installation window appears, click "Cancel" to exit the setup procedure.

**3** **Click the "start" button and then click "My Computer" ( ).**

• In Windows 98/Me/2000, double click "My Computer".

**4** **Click the CD-ROM icon ( ) and select "Open" from the "File" menu.**

**5** **Double-click the "Twain" folder, and then double-click the "Setup" ( ).**

**6** **Follow the instructions on the screen.**

To remove the software, follow the steps below.

**1** **Click "Control Panel" in the "start" menu.**

- In Windows 98/Me/2000, click "Start", "Settings", and then "Control Panel".

**2** **Click "Uninstall a program".**

- In Windows 98/Me/2000, double click "Add or Remove Programs".
- In Windows XP, double click "Add or Remove Programs".

**3** **Select the application that you wish to delete ("Sharpdesk" or "SHARP TWAIN AR/DM") from the list and uninstall the application.**

When the "Customer Information" window appears, enter the serial number that appears on the cover of the this manual, and click the "Next" button.

Follow the instructions on the screen.

- If you select "Typical" in the Setup Type selection screen, Network Scanner Tool will also be installed. If you only wish to install Network Scanner Tool, select "Custom" in the Setup Type selection screen and then check only Network Scanner Tool.
- Sharpdesk Imaging is installed together with Sharpdesk. If Imaging for Windows was previously installed, Sharpdesk Imaging will overwrite Imaging for Windows.
- If Estman Software's "Imaging for Windows Professional Edition" has already been installed on your computer, Sharpdesk Imaging will not be installed.
- "Imaging for Windows Professional Edition" and Sharpdesk Imaging use common registry entries, and installing "Imaging for Windows Professional Edition" after Sharpdesk Imaging has been installed may result in abnormal operation. In this case, uninstall Sharpdesk and Sharpdesk Imaging, and then install "Imaging for Windows Professional Edition". After that, reinstall Sharpdesk.
- When Network Scanner Tool setup is finished, the "Search Setup Wizard" appears. Follow the on-screen instructions to create an index database. For detailed information, see the Sharpdesk Installation Guide and Sharpdesk User's Guide.
- Sharpdesk Imaging is a version of Estman Software's Imaging for Windows Professional Edition that has been customized by the Sharp Corporation.

**1** **Quit any software applications and/or resident programs that are running on your computer.**

**2** **Insert the "Disc 1" CD-ROM into your CD-ROM drive.**

**3** **Click the "Start" button ( ) and then click "Computer".**

**4** **Double click the CD-ROM icon ( ).**

**5** **Follow the instructions on the screen.**

- In Windows Vista, if a message screen appears asking you for confirmation, click "Allow".
- The Sharpdesk installer starts.
- In Windows 98/Me/2000, double click "My Computer".
- In Windows XP, click the "start" button and then click "My Computer".
- If the screen does not appear, proceed to step 3.
- The Sharpdesk installation screen appears. Proceed to step 5.

**6** **SHARP TWAIN AR/DM is located in the Twain folder.**

**7** **Install Sharpdesk and Network Scanner Tool.**

**8** **SHARP TWAIN AR/DM is located in the root folder of the CD-ROM, and the ReadMe file for the same CD-ROM. The ReadMe file for Sharpdesk is located in the root folder of the CD-ROM, and the ReadMe files on the same contents of the information screens that appear during installation can also be found in the ReadMe files on the same CD-ROM. The ReadMe file (Readme.txt) in the root folder of the "Disc 2" CD-ROM.**

**9** **If you intend to install SHARP TWAIN AR/DM, install Network Scanner Tool first. SHARP TWAIN AR/DM cannot be installed alone.**

**10** **If you intend to install SHARP TWAIN AR/DM, see the installation procedure for Internet Explorer in the Readme file (Readme.txt) in the root folder of the "Disc 2" CD-ROM.**

**11** **If Internet Explorer 6.0 or later is not installed on your computer, see the installation procedure for Internet Explorer in Network Scanner Tool.**

**12** **SHARP TWAIN AR/DM will be also be installed, alternatively you can also select "Custom", "Install only Network Scanner Tool", "Network Scanner Tool must be installed".**

**13** **If you perform a standard installation of Sharpdesk (select "Typical" in the Setup Type selection screen), Network Scanner Tool will be also be installed, alternatively you can also select "Custom", "Install only Network Scanner Tool", "Network Scanner Tool must be installed".**

**14** **If you are going to send an original scanned with the Digital Laser Copier/Printer to a computer (Scan to Desktop), "Network Scanner Tool" should verify that network preparation has been carried out correctly.**

**15** **If you are going to use Network Scanner Tool, be sure to carefully read the instructions regarding the programs. In particular, if you are going to use Network Scanner Tool, be sure to carefully read the instructions before installing the programs. Be sure to read the user's guides before installing the programs. Be sure to read the user's guides giving detailed instructions for installing and setting up the programs. Be sure to read the user's guides and on the information screen during installation.**

**16** **Note the following when installing the software program from the CD-ROM:**

- Be sure to check the system requirements for installation of each of the software programs in the user's guides and on the information screen during installation.
- Be sure to follow the following the software program from the CD-ROM:

## Installing the Software Program

## User's Guides for Software Programs

The Manual folder in the CD-ROM contains user's guides (in PDF format) for each of the software programs. In addition to explaining how to use the programs, the user's guides also give detailed instructions for installing and setting up the programs. Be sure to read the user's guides before installing the programs.

- Sharpdesk Installation Guide
- Sharpdesk User's Guide
- Network Scanner Tool User's Guide
- Sharp TWAIN AR/DM User's Guide

Sharpdesk CD-ROM (for Windows)

# Sharpdesk CD-ROM (for Windows)

The CD-ROM contains the following software programs:

- **SHARP 1WAIN AHD/DM (1wan driver)**
  - \* Sharpdesk can only be installed on the number of computers indicated in "Sharpdesk Serial Numbers" on the cover of this manual. If you need to install Sharpdesk on additional computers, please purchase the optional license kit.
  - (if the version of the software on the CD-ROM in the license kit is different from the version of the software on the CD-ROM that accompanies the machine, it is recommended that you use the newest version of the software.)

## Software Programs

ROM that accompanies the machine, it is recommended that you use the newest version of the software.)

(if the version of the software on the CD-ROM in the license kit is different from the version the software on the CD-)

this manual. If you need to install Sharpdesk on additional computers, please purchase the optional license kit.

\* Sharpdesk can only be installed on the number of computers indicated in "Sharpdesk Serial Numbers" on the cover of

• SHARP TWAIN AH/DIM (Windows driver)

## Sharpdesk (Desktop Document Management Software)

www.english-test.net

http://www.adobe.com/

Neither program is installed on your computer, the programs can be downloaded from the following URL:

the manuals in PDF format. Adobe® Reader™ or Acrobat® Reader of Adobe Systems Incorporated is required. If

For detailed information on each of the software programs, please refer to the user's guides on the CD-ROM. To view

Software Foundations

Software Packages

ROM that accompanies the machine, it is recommended that you use the newest version of the software.)

(if the version of the software on the CD-ROM in the license kit is different from the version of the software on the CD-  
D-

this manual. If you need to install Sharpdesk on additional computers, please purchase the optional license kit.

Sharpdesk can only be installed on the number of computers indicated in "Serial Numbers" on the cover or

• SHARP 1WAIN AH/DIM (warm driver)

|  |    |
|--|----|
| Sharpdesk CD-ROM (for Windows) .....                           | 44 |
| Software Programs .....  | 44 |
| Sharpdesk (Desktop Document Management Software) .....         | 44 |
| Network Scanner Tool .....                                     | 44 |
| SHARP TWAIN AR/DM .....  | 44 |
| Users' Guides for Software Programs .....                      | 45 |
| Installing the Software Program .....                          | 46 |
| Installing Sharpdesk and Network Scanner Tool .....            | 46 |
| Installing SHARP TWAIN AR/DM .....                             | 46 |
| Uninstalling the Software Program .....                        | 48 |
| Uninstalling the software program from the Control Panel ..... | 48 |

## Table of Contents

- The explanations in this manual assume that the person who will install the product and the users of the product have a working knowledge of Microsoft Windows.
- For detailed information on the software in the CD-ROM, please view the user's guide (PDF format) that is included on the CD-ROM.
- For information on the operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in this manual are for Windows Vista. The screens may vary depending on your Windows version and settings.

## Warranty

While every effort has been made to make this operation manual 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 the use of this operation manual.

# Sharpdesk Installation Guide

# MOVING THE SOFTWARE

## Windows

To remove the printer driver or software installed using the installer, follow the steps below.

### 1 Click the [start] button and then click [Control Panel].

[Control Panel].

### 1 Delete the printer that uses the machine's PPD file from the printer list.

To show the printer list, see step 1 and 12 of "MAC OS X" (page 32).

In Windows 2000, click the [Start] button, point to [Settings], and click [Control Panel].

### 2 Delete the PPD file.

The PPD file has been copied to the following folder on the startup disk.

• In Windows XP/Server 2003, click [Add or Remove Programs].

### 3 Select the program or driver that you wish to delete.

• In Windows 2000, double-click [Add/Remove Programs].

### 4 Restart your computer.

For more information, see the manual for the operating system or Help.

## Mac OS 9.0 - 9.2.2

Delete the [MX-PBX1.pkg] file from this folder.

After deleting the icon of the printer that uses the machine's PPD file from the desktop, follow the steps below.

### 1 Insert the "Software CD-ROM" into your CD-ROM drive.

Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

### 2 Double-click the [CD-ROM] icon (CD).

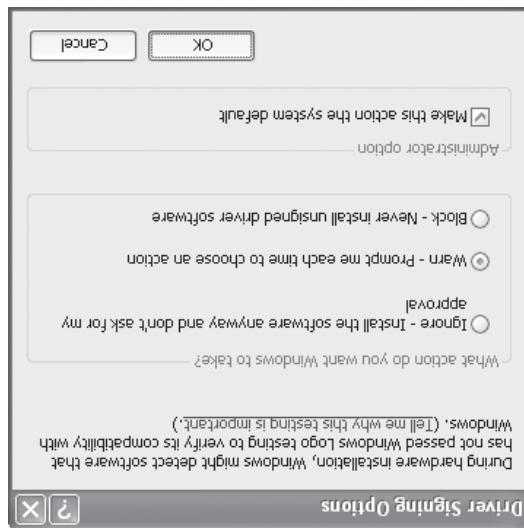
the desktop and double-click the [MacOS] folder.

### 3 Double-click the [Installer] icon (CD).

click the [Remove] button.

### 4 Select [Remove] in the install menu and

Select [Warn] and install the printer driver again.  
If [Block] is selected, the printer driver cannot be installed.



4 Check the settings in "What action do you want Windows to take?" ("File signature verification" in Windows 2000).

1 Click the [start] button and then click [Control Panel].  
If the printer driver cannot be installed on Windows 2000/XP/Server 2003, follow the steps below to check your computer settings.

2 Click [Performance and Maintenance] and then [System].

In Windows 2000, double-click the [System] icon.

3 Click the [Hardware] tab and then the [Driver Signing] button.

4 Click the [Hardware] tab and then the [Driver Signing] button.

In Windows 2000, click the [Start] button, point to [Settings], and click [Control Panel].

5 Click the [start] button and then click [Control Panel].

If the printer driver cannot be installed on Windows 2000/XP/Server 2003, follow the steps below to check your computer settings.

► The printer driver cannot be installed (Windows 2000/XP/Server 2003)

If the machine was connected to your computer with a USB cable before installing the printer driver was installed from the installer, check if information on the unsuccessful installation remains in "Device Manager". (For information on "Device Manager", see Help in Windows.)

If the model name of the machine appears in "Other devices" in "Device Manager", delete it, restart your computer, and install the printer driver again.

The printer is not installed correctly by plug and play (USB connection in Windows).

Did you connect the machine to your computer before installing the printer driver? If the machine was connected to your computer with a USB cable before the printer driver was installed from the installer, check if information on the unsuccessful installation remains in "Device Manager". (For information on "Device Manager", see Help in Windows.)

Did you connect the machine to your computer before installing the printer driver? If the machine was connected to your computer with a USB cable before the printer driver was installed from the installer, check if information on the unsuccessful installation remains in "Device Manager". (For information on "Device Manager", see Help in Windows.)

| Problem   | Solution   |
|---|--|
| The machine is not detected (when connected to a network).            | <p>Is the machine power on?</p> <p>If the machine is powered off, it will not be detected. Switch on the main power switch and the [POWER] key ( ⓘ) in that order. (In Windows, search again after powering on the machine).</p>   |
| The machine is not connected (when connected to a network).           | <p>Is the machine power on?</p> <p>If the machine is powered off, it will not be detected. Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well.</p> <p> CONNECTING TO A NETWORK (page 7)</p>  |
| The plug and play screen does not appear (USB connection in Windows). | <p>Is the machine power on?</p> <p>When a USB cable is connected, make sure the power switch on the main power switch and the [POWER] key of the machine is "ON" and then connect a USB cable to the machine. When the machine is "ON" and then connect a USB cable to the machine. Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well.</p> <p>Check the connections at the hub as well.</p> <p>Can your computer use a USB connection?</p> <p>Check your computer whether or not a USB interface can be used on the Device Manager in your computer. (For information on "Device Manager", see Help in Windows.)</p> <p>If USB can be used, your controller chipset type and root hub will appear in "Universal Serial Bus controllers" in "Device Manager". (The items that appear will vary depending on your computer.)</p> |
| Can your computer use a USB connection?                               | <p>Is the machine power on?</p> <p>When a USB cable is connected, make sure the power switch on the main power switch and the [POWER] key of the machine is "ON" and then connect a USB cable to the machine. Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well.</p> <p>Check the connections at the hub as well.</p> <p>Check your computer whether or not a USB interface can be used on the Device Manager in your computer. (For information on "Device Manager", see Help in Windows.)</p> <p>If USB can be used, your controller chipset type and root hub will appear in "Universal Serial Bus controllers" in "Device Manager". (The items that appear will vary depending on your computer.)</p>  |
| The screen does not appear (USB connection in Windows).               | <p>Is the machine power on?</p> <p>When a USB cable is connected, make sure the power switch on the main power switch and the [POWER] key of the machine is "ON" and then connect a USB cable to the machine. Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well.</p> <p>Check the connections at the hub as well.</p> <p>Can your computer use a USB connection?</p> <p>Check your computer whether or not a USB interface can be used on the Device Manager in your computer. (For information on "Device Manager", see Help in Windows.)</p> <p>If USB can be used, your controller chipset type and root hub will appear in "Universal Serial Bus controllers" in "Device Manager". (The items that appear will vary depending on your computer.)</p>   |

| Problem  | Point to check   | Solution  |
|--|--|---|
| The software cannot be installed.                                | Is there sufficient free space on your hard drive?       | Delete any unnecessary files and applications to increase free space on your hard drive.  |
| The machine is not connected to a network.                       | Are you using an operating system that is not supported? | Make sure that the software can run on your operating system.<br>For detailed information on installation requirements for each software program in Windows, click the [Display Readme] button in the installer.  |
| The machine is not connected to the same network as the machine. | Is the IP address of the machine configured?             | If the IP address of the machine is not configured, the machine will not be detected. Make sure that the IP address is configured correctly in "Network Settings" in the machine's system settings (Administrator) > "Network Settings".  |
|  |  | Macintosh:<br>If multiple AppleTalk zones exist, select the zone to enter the machine's name (host name) or IP address sub-networks, click the [Specify Condition] button and be detected. If the two are connected to different sub-networks, click the [Search for the machine] button to search for the machine. |

- The software cannot be installed..... 39
- The machine is not detected (when connected to a network)..... 39
- The plug and play screen does not appear (USB connection in Windows)..... 40
- The printer driver is not installed correctly by plug and play (USB connection in Windows)..... 41
- The printer driver cannot be installed (Windows 2000/XP/Server 2003)..... 41

This section provides solutions to possible installation problems. See the following table of contents to locate the appropriate page for your question or problem.

## WHEN INSTALLATION WAS NOT SUCCESSFUL

### 4 TROUBLESHOOTING

(1) Select the options that are installed on the machine.

(2) Select [Options 2] from the menu to change the screen and continue selecting the options that have been installed on the machine.

(3) Click the [OK] button.

You can check the options that are installed on the machine by printing out the "All Custom Settings List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) The "All Custom Settings List" can be printed from [List Print (User)] in the system settings.

14 Click the [OK] button in the window of step 12 to close the window.

15 Click the close box (□) to close the "Chooser".

This completes the configuration of the printer driver.

The screen fonts for Mac OS 9.0 - 9.2.2 are contained in the [Font] folder of the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. Copy the fonts that you wish to install to the [System Folder] of the startup disk.

If you experience problems that may be due to the installed screen fonts, immediately delete the installed fonts from the system.

To automatically configure the settings based on the installed machine options that are detected, click the [Auto Setup] button.



12 Click the [Configure] button.

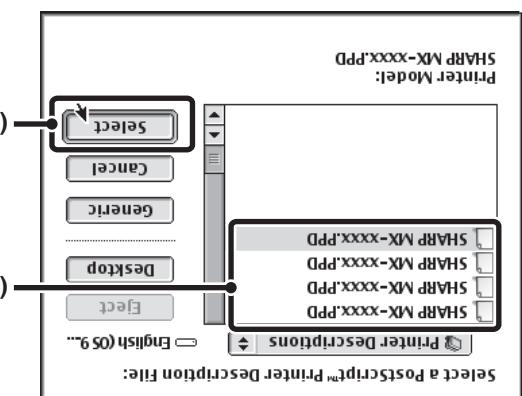
11 Make sure that the machine is selected and then click the [Setup] button.

- If the above dialog box does not appear and you return to the "Chooser" dialog box, follow these steps to select the PPD file manually.
- The PPD file is installed in the [Printer Descriptions] folder in the [Extensions] folder.
- Make sure that the machine is selected in the "Select a PostScript Printer" list, and then click the [Setup] button followed by the [Select PPD] button.
- Select the PPD file for your model and click the [Open] button.
- Click the [OK] button.
- The PPD file is installed in the [Printer Descriptions]



1) Click the PPD file for your model.

(2) Click the [Select] button.



10 Select the PPD file.

This completes the installation of the software. Next, configure the printer driver settings.

After the installation, a message prompting you to restart your computer will appear. Click the [Ok] button and restart your computer.

Installation of the PPD file begins.

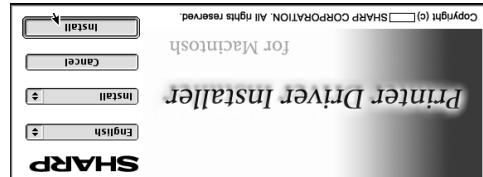
button.

Appears and click the [Continue] button.

7 Read the message in the window that

and then click the [Yes] button.  
the contents of the license agreement  
appear. Make sure that you understand  
and click the [Yes] button.

6 The License Agreement window will



5 Click the [Install] button.

4 Double-click the [Installer] icon (i).

3 Double-click the [MacOS] folder.  
Before installing the software, be sure to read "ReadMe First". "ReadMe First" is in the [English] folder in the [ReadMe] folder.

2 Double-click the [CD-ROM] icon (i) on  
the desktop.

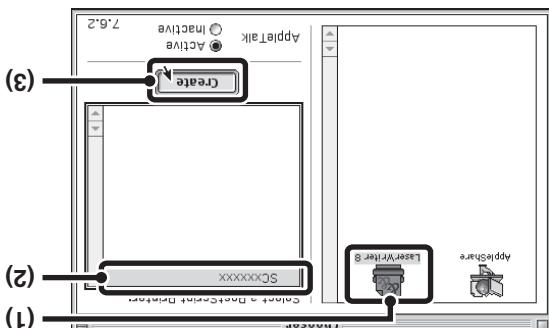
1 Insert the "Software CD-ROM" that shows "Disc 2" on the  
front of the CD-ROM.

If you are using Mac OS 9.0 to 9.2.2, make sure that "LaserWriter 8" has been installed and that the "LaserWriter 8" checkbox is selected  in "Extensions Manager" in "Control Panels". If not, install it from the system CD-ROM supplied with your Macintosh computer.

- (1) Click the [LaserWriter 8] icon.
- (2) Click the machine's model name.
- (3) Click the [Create] button.

The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)

If multiple AppleTalk zones are displayed, select the zone that includes the printer.



9 Create a printer.

8 Select [Chooser] from your computer's CD-ROM drive.

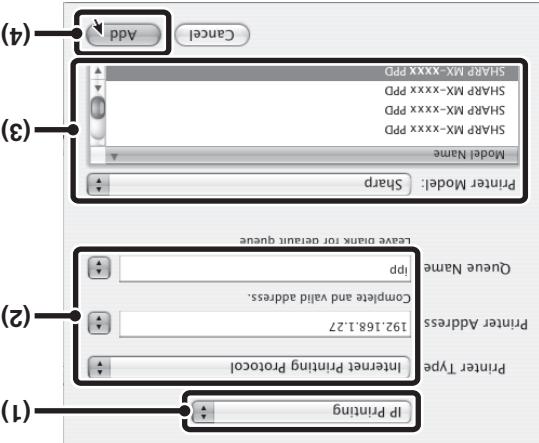
(1) Select [IP Printing].

(2) Select [Internet Printing Protocol] in "Printer Type". Enter the address "192.168.1.27".

(3) Select [Sharp] in "Printer Model" and click the PPD file of your model.

(4) Click the [Add] button.

Checking the IP address of the machine (page 7)



V10.2.8, V10.3.9

The machine can print using the IPF function. When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. If you wish to use the IPF function, follow these steps to select the PPD file when configuring the printer driver (step 14 on page 34).

Checking the IP address of the machine (page 7)

If you are using Mac OS X 10.5 to 10.6, the "Installable Options" screen will appear. Make sure that the settings are correct and click the [Continue] button.

(4) Click the [Add] button.

If you are using Mac OS X 10.5 to 10.6, select [Select a driver to use] from "Print Using", and click the PPD file for your model.

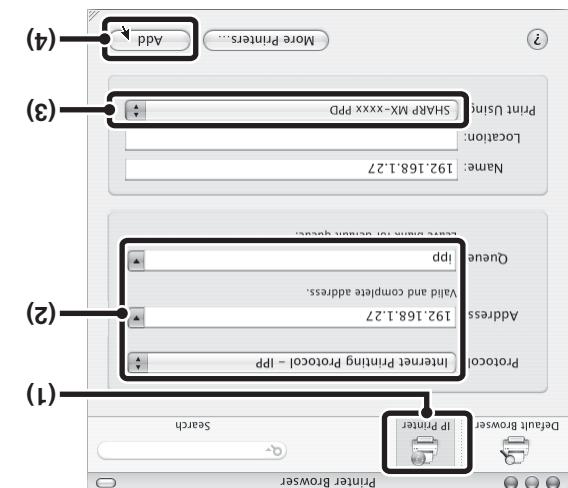
(3) Select [Sharp] in "Print Using" and click the PPD file of your model.

If you are using Mac OS X 10.5 to 10.6, enter the "Protocol". Enter the address of the machine (IP address or domain name) and the queue name.

(2) Select [Internet Printing Protocol] in "Printer Type". Enter the address "192.168.1.27".

If you are using Mac OS X 10.5 to 10.6, click the [IP] icon.

(1) Click the [IP Printer] icon.



V10.4.11, V10.5 - 10.5.6

## ◀ Printing using the IPP function

This completes the configuration of the printer driver.

You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine, The "All Custom Settings List" can be printed from [List Print (User)] in the system settings.



**(4) Click to close the window.**

[OK] button.

If you are using Mac OS X v10.5 to 10.5.6, click the

**(3) Click the [Apply Changes] button.**

the machine.

**(2) Select the options that are installed on**

not appear.

If you are using Mac OS X v10.5 to 10.5.6, it does

**(1) Select [Installable Options].**

they are correct.

machine configuration is detected and automatically

configured. Check the configured settings to make sure

if you selected [Auto Select] in (3) of step 14, the

machine configuration is detected and automatically

configured. Check the configured settings to make sure

**16 Select the machine configuration.**

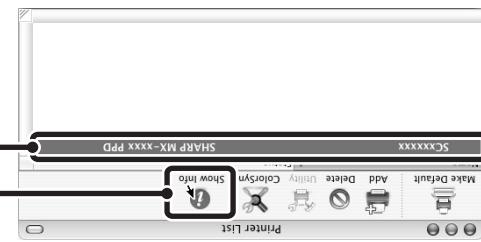
If you are using Mac OS X v10.2.8, select [Show Info] from the [Printers] menu.

**(2) Click [Show Info].**

and go to step 16.

If you are using Mac OS X v10.5 to 10.5.6, click the [Options & Supplies] button, click the [Driver] tab

**(1) Click the machine's name.**



**15 Display printer information.**

A small icon of a pencil inside a circle, indicating a text input field.

The PDF file is installed in the following folders on the startup disk.  
[library] - [Primitives] - [PPDs] - [Contents] - [Resources] - [en.lproj]

The PDF file of the machine is automatically selected and the machine is automatically detected and the peripheral devices installed on the machine are detected and automatically configured.

(4) Click the [Add] button.

(3) Make sure that the PPD file of your

selected.

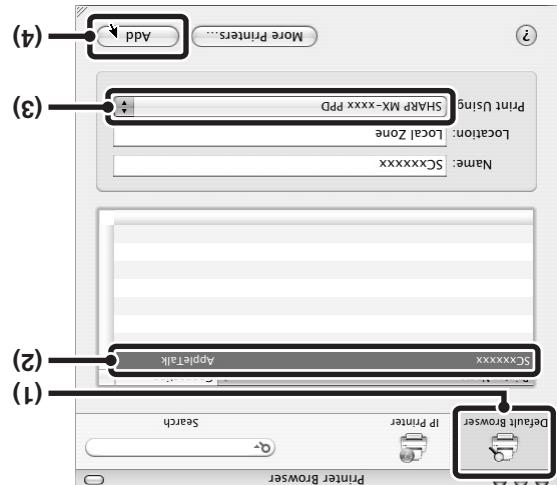
- The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)
- The PPD file of the machine is automatically

(2) Click the machine's model name.

the [Default] icon.

- If multiple Appletalk zones are displayed, select the zone that includes the printer from the menu.
- If you are using Mac OS X v10.5 to 10.6, click

(1) Click the [Default Browser] icon.



v10.2.8, v10.3.9

v10.4.11, v10.5 - 10.5.6

(page 36) to configure the printer driver settings.

- The machine can print using the IPF function. If you wish to use the IPF function, see "Printing using the IPF function".

### Configure the printer driver.

7 The License Agreement window will appear. Make sure that you understand the contents of the license agreement and then click the [Continue] button. A message will appear asking you if you agree to the terms of the license. Click the [Agree] button.

8 Select the hard drive where the PPD file will be installed and click the [Continue] button. Be sure to select the hard drive on which your operating system is installed.

9 Click the [Install] button. Installation begins.



10 When the message "The software was successfully installed" appears in the installation window, click the [Close] button.

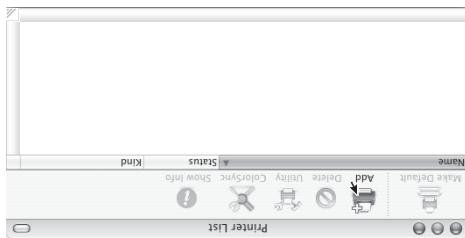


11 Select [Utilities] from the [Go] menu. [Applications] from the [Go] menu.



12 Double-click the [Printer Setup Utility] icon. If the license appears in the different language, change the language in the language menu.

13 Click [Add]. If you are using Mac OS X 10.2.8, double-click the [Print Center] icon.



14 If you are using Mac OS X 10.5 to 10.5.6, click [System Preferences] in the Apple menu and select [Print & Fax] ( ). When the screen for adding a printer appears, click the + button and go to step 14.

15 If you are using Mac OS X 10.5 to 10.5.6, click [System Preferences] in the Apple menu and select [Print & Fax] ( ). When the screen for adding a printer appears, click the + button and go to step 14.

16 If the "Authenticate" window appears, enter the password and click the [OK] button.



## 6 Click the [Continue] button.

- If the "Authenticate" window appears in Mac OS X V10.2.8, enter the password and click the [OK] button.

## 5 Double-click the [MX-PBX1] icon ().

- The explanations of screens and procedures are primarily for Mac OS X V10.4. The screens may vary in other versions of the operating system.

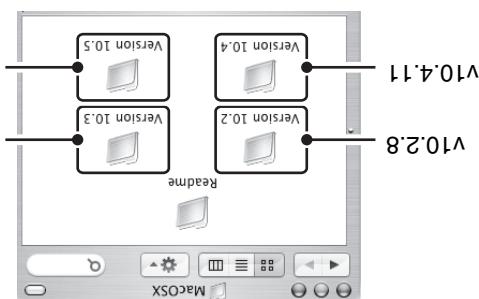
# MAC OS X

- The PS3 expansion kit is required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network. A USB connection cannot be used.
- The scanner and PC-Fax driver cannot be used in a Macintosh environment.

This chapter explains how to install the PPD file to enable printing from a Macintosh and how to configure the printer driver settings.

MAC OS X: this page  
(V10.2.8, V10.3.9, V10.4.11, V10.5 - 10.5.6)  
MAC OS 9.0 - 9.2.2: page 37

# 3 SETUP IN A MACINTOSH ENVIRONMENT



to the versions of the operating system.

## 4 Double-click the folder corresponding

Before installing the software, be sure to read "ReadMe First". "ReadMe First" is in the [English] folder in the [ReadMe] folder.

## 3 Double-click the [MacOSX] folder.

Double-click the [CD-ROM] icon () on the desktop.

Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

Computer's CD-ROM drive.

## 1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.



When using a port created with "Standard TCP/IP Port", in the screen that appears after you click the [Configure Port] button in the screen of step 3, make sure the [SNMP Status Enabled] checkbox is not selected (□). If the [SNMP Status Enabled] checkbox is selected (■), it may not be possible to print correctly.

**7** Click the [Next] button in the screen of step 5.

**8** Click the [Finish] button.

1 Follow steps 1 to 3 of "CHANGING THE PORT" (page 28).

2 Select [Standard TCP/IP Port] and then click the [New Port] button.

3 Click the [Next] button.

4 Enter the machine's IPv6 address in [Printer Name or IP Address] and click the [Next] button.

5 Select [Custom] and click the [Settings] button.

6 Configure the port settings.

If the machine is being used on an IPv6 network, change the port to a port created using the operating system's "Standard TCP/IP Port".

◀ Changing to a Standard TCP/IP Port



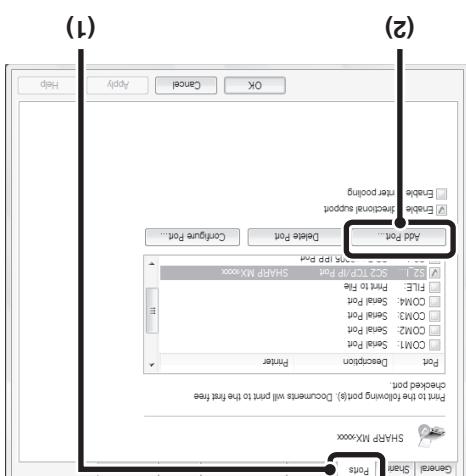
# CHANGING THE PORT

To change to a previously created port such as USB port, select the desired port (USB001, etc.) from the list and click the [Apply] button. This changes the port.



(2) Click the [Add Port] button.

(1) Click the [Ports] tab.



3 Adding or changing a port.

When using the machine in a Windows environment, follow the steps below to change the port when you have changed the IP address of the machine or have installed the PC-Fax driver when the machine is connected with a USB cable. If the machine is being used on an IPv6 network, follow the steps 1 to 3 below and see "Changing to a Standard TCP/IP Port" (page 30) for the remaining steps of the procedure to change the port.

2 Open the printer properties window.

(1) Right-click the printer driver icon of the machine.

(2) Select [Properties].

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

If [Printers and Faxes] does not appear in the [start] menu in Windows 2000, click the [start] button, select [Printers and Faxes].

3 Click the [Start] button ( ), click [Control Panel], and then click [Printers].

• In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].

• In Windows 2000, click the [start] button, select [Printers and Faxes].

• In Windows 2000, click the [start] button, select [Printers and Faxes].

• In Windows 2000, click the [start] button, select [Printers and Faxes].

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• In Windows 2000, click the [start] button, select [Printers and Faxes].

• In Windows 2000, click the [start] button, select [Printers and Faxes].

# INSTALLING THE PS DISPLAY FONTS

## 8 Click the [Close] button in the screen of step 6.



## 6 Click the [PS Display Font] button.

Fonts that can be used by the PS printer driver are contained on the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. Install these fonts as needed for the PS printer driver.

## 2 Click the [Start] button ( ), click [Computer], and then double-click the [CD-ROM] icon ( ).

In Windows XP/Server 2003, click the [start] button, click [My Computer], and then double-click the [CD-ROM] icon.

In Windows 2000, double-click [My Computer], and then double-click the [CD-ROM] icon.

## 3 Double-click the [Setup] icon ( ).

In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

## 4 The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

5 Read the message in the "Welcome" window and then click the [Next] button.

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

This completes the configuration of the scanner driver.



8 Click the [OK] button.



- Be sure to ask your system administrator (network administrator) for the IP address of the machine.
- The name (host name) or IP address of the machine can be directly entered in "Address".
- If the port number used by the scanner function of the machine has been changed, enter a colon ":" following the IP address and then enter the port number. Normally the port number does not need to be entered.)

7 Select the "Address" menu and click the [OK] button.

## INSTALLING THE SCANNER DRIVER

The scanner driver (TWAIN driver) can only be used when the machine is connected to a network. When the scanner

**Supported operating systems:** Windows 2000\* /XP\* /Server 2003\* /Vista\* /Server 2008\*

“SOFTWARE” (page 8), continue the steps below.

Administrators are required to install the software.

This completes the installation. Next, configure the IP address of the machine in the scanner driver. When the scanner driver is installed, the "Select Device" utility is also installed. The IP address of the machine is configured in the "Select Device" utility. Finally, the scanner driver is installed, the "Select Device" utility is also installed. The IP address of the machine is configured in the "Select Device" utility. Finally, the scanner driver is installed, the "Select Device" utility is also installed.

Click the [start] button, select [All Programs] ([Programs] in Windows 2000), select [SHARP MFP TWAIN K], and then select [Select Device].

If you know the IP address, you can click the [input] key and enter the IP address without searching.

|   |  |
|---|--|
| Select a software to be installed.  |  |
| <input type="checkbox"/> Software Selection   |   |
| <input type="checkbox"/> PC-Fax Driver  |  |
|  | The PC-Fax driver lets you easily send faxes from your computer through the machine to another fax machine.  |
| <input type="checkbox"/> TWAIN Scanner Driver (TWAIN)                                 |  |
|  | TWAIN is an interface standard for scanners and other image input devices. By installing the TWAIN driver, you can scan using your application that supports the TWAIN standard. |
| <input type="checkbox"/> Readme [Display]   |  |
| <input type="checkbox"/> Software   |  |

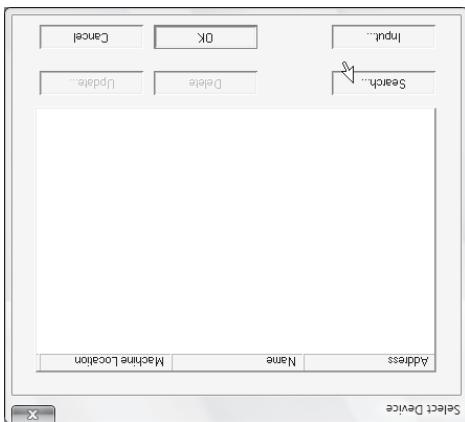
1 Click the [Scanner Driver (TWAIN)]

2 Follow the on-screen instructions.

3 When the finish setup window appears, click the [OK] button.

4 Click the [Close] button in the window of step 1.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.



This completes the installation. For the procedures for using the Printer Status Monitor, see the Help file. Follow these steps to view the Help file: Click the Windows [start] button, select [All Programs] ([Programs] in Windows 2000), select [SHARP Printer Status Monitor] and then select [Help].

2 Follow the on-screen instructions.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

4 Click the [Close] button in the window of step 1.

To have the Primer Status Monitor start automatically when your computer is started, select the [Add this program to your Startup folder] checkbox  and click the [Finish] button.

3 When the installation completed screen appears click the [Finish] button

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

\* Administrator's rights are required to install the software.

- When the machine is connected by a USB cable.
- When printing to the machine using the IPF function.

Printer Status Monitor is a utility that allows general users to check the current status of the machine on their computer screen, such as whether or not the machine is ready to print. The Printer Status Monitor shows error information such as paper misfeeds, printer configuration information (whether or not a finisher is installed, etc.) as an image, the paper sizes that can be used, and the amount of paper remaining.

# MONITOR INSTALLING THE PRINTER STATUS



- You can check the options that are installed and the tray settings by printing out the "All Custom Setting List" in the system settings of the machine. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) The "All Custom Setting List" can be printed from [List Print (User)] in the system settings of the machine.
- Click the [Set Tray Status] button, the [Paper Type Name] button, and the [Set Tandem Print] button to check the settings of each.
- Set Tray Status: The "Tray Settings" in "Paper Tray Settings" in system settings of the machine are reflected in the settings shown here. Specify the size and type of paper loaded in each tray.
- Set Tandem Print\*: Enter the setting (the IP address of the slave machine) in "Tandem Connection Setting" in the system settings (administrator) of the machine.
- "Set Tandem Print" can only be configured when the printer driver is installed using a "Standard Installation" or a "Custom Installation" with "LPR Direct Print (Specify Address/Auto Search)" selected.

#### If automatic configuration fails

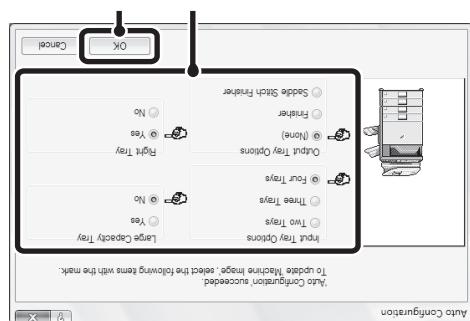


## 6 Click the [OK] button in the printer properties window.

To cancel the image settings, click the [Cancel] button.



- 1) Select the options that are installed on the machine.
- 2) Click the [OK] button.



An image of the machine is formed in the printer driver configuration window based on the options that are installed.

## 5 Configure the image of the machine.



# CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

After installing the printer driver, you must configure the printer driver settings appropriately for the options that have been installed and the size and type of paper loaded in the machine. Follow the steps below to configure the printer driver.

► When the PCL printer driver or PS printer driver is installed

4 Click the [Auto Configuration] button. The settings are automatically configured based on the detected machine status.

**1** Click the [Start] button ( ), click [Control Panel], and then click [Printers].

if [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], [Control Panel], click [Printers and Other Hardware], click [Printers and Faxes] [start] button, click [Printers and Other Hardware], click [Printers and Faxes]

2 Open the printer properties window.  
(1) Right-click the printer driver icon of the

If the machine is being used on an IPv6 network, you must configure the options manually as explained in "IPv6 Configuration" (page 22). If the machine is being used on an IPv4 network, you must configure the options manually as explained in "IPv4 Configuration" (page 22).

## (2) Select [Properties].

machine.

2 Open the printer properties window.

"INSTALLING THE PS DISPLAY FONTS" (page 27).  
 CD-ROM that accompanies the PS3 expansion kit. See  
 display fonts can be installed from the "PRINTER UTILITIES"  
 If you installed the PS printer driver or the PPD driver, the PS  
 This completes the installation.

on the print server.  
 same type of printer driver as the printer driver installed  
 In the printer driver selection screen, be sure to select the  
 This completes the installation.

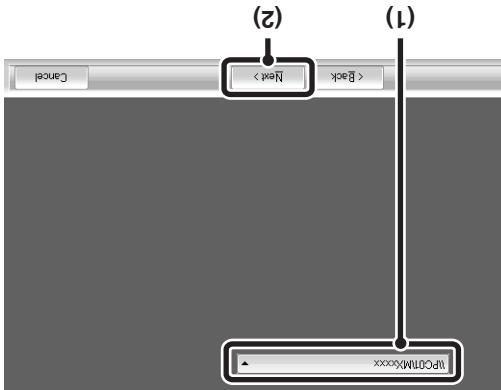
## 5 Perform steps 5 through 12 on page 13 to continue the installation.

the settings on the print server.  
 If the shared printer does not appear in the list, check

(2) Click the [Next] button.

shared by browsing the network in the window that  
 displayed below the list and select the printer to be  
 you can also click the [Add Network Port] button  
 If you are using Windows 2000/XP/Server 2003,  
 the list.

(1) Select the printer name (configured as  
 a shared printer on a print server) from  
 the list.

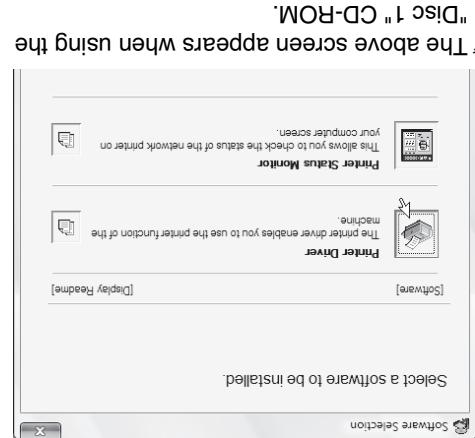


## 4 Select the printer name (configured as a shared printer).



## 3 Select [Shared Printer] and click the [Next] button.

## 2 Click the [Custom Installation] button.



## 1 Click the [Printer Driver] button.

To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

\* The above screen appears when using the "Disc 1" CD-ROM.

## 4 Select the printer name (configured as a shared printer).

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN FOR ALL SOFTWARE" (page 8), perform the steps below.

- Ask your network administrator for the server name and printer name of the machine on the network.
- For the procedure for configuring settings on the print server, see the operation manual or the Help file of the operating system. The "print server" explained here is a computer that is connected directly to the machine, and "clients" are other computers connected to the same network as the print server.
- Install the same printer driver on client computers as the printer driver that is installed on the print server.

If you are going to use the machine as a shared printer on a Windows network with the PC-Fax driver or the PC-Fax driver installed on a print server, follow the steps below to install the printer driver or the PC-Fax driver on the client computers.

# USING THE MACHINE AS A SHARED PRINTER

Click the [Close] button in the window of step 1.

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

Select whether or not you wish the printer to be your default printer and click the [Next] button.

After the installation, a message prompting you to restart your computer may appear. If this message disappears, click the [Yes] button to restart your computer.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 21) to configure the printer driver settings.
- Make sure that the port of the installed driver is the same as the port used by the PC16 printer driver.
- The port used by the printer driver of the machine is indicated by a checkmark on the [Ports] tab of the printer driver properties window.
- If you installed the PS printer driver or the PFD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS3 EXPANSION KIT" (page 27).
- This completes the installation.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 21) to configure the printer driver settings.
- Make sure that the port of the installed driver is the same as the port used by the PC16 printer driver.
- The port used by the printer driver of the machine is indicated by a checkmark on the [Ports] tab of the printer driver properties window.
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS3 EXPANSION KIT" (page 27).
- This completes the installation.

Follow the on-screen instructions.

When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.

click the [Next] button.

When you are asked "Do you wish to install the display fonts, select [No] and

When you are asked if you wish to

If you wish to change the printer name, enter the desired name and click the [Next] button.

When the printer name window appears, click the [Next] button.

When the installation completed screen appears, click the [OK] button.

- If you are using Windows Vista/Server 2008 If a security warning window appears, be sure to click [Install this driver software anyway].
- If you are using Windows 2000/XP/Server 2003 If a warning message regarding the Windows logo test or digital signature appbeers, be sure to click the [Continue Anyway] or [Yes] button.

Follow the on-screen instructions.

When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.

click the [Next] button.

When you are asked "Do you wish to install the display fonts, select [No] and

When you are asked if you wish to

If you wish to change the printer name, enter the desired name and click the [Next] button.

When the printer name window appears, click the [Next] button.

Select whether or not you wish the printer to be your default printer and click the [Next] button.

- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The PS3 expansion kit is required to use the PS printer driver or the PPD driver.



5 When the printer driver selection window appears, remove the [PCL6] checkbox and select the printer driver to be installed, and then click the [Next] button.

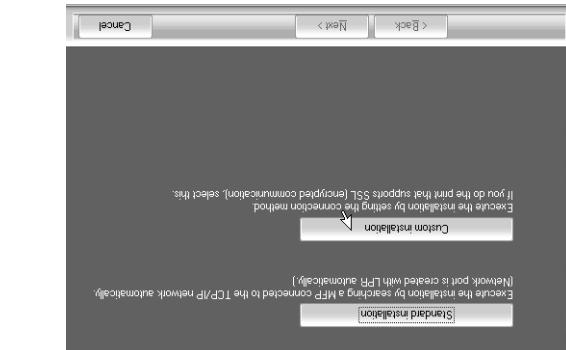
4 When the port selection window appears, select the port that the PCL6 driver is using (USB001, etc.) and click the [Next] button.



3 When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.

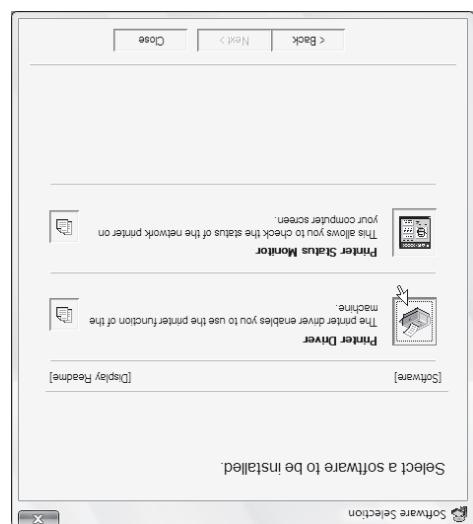
When installing the PS printer driver, PPD driver, or PC-Fax driver step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

Installation is possible even after the USB cable has been connected. When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.



2 Click the [Custom installation] button.

\* The above screen appears when using the "Disc 1" CD-ROM.



To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

1 Click the [Printer Driver] button.

This completes the installation.

- After installing the printer driver, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 21) to configure the printer driver settings.
- If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 20) to install the printer driver on each of the client computers.

[Continue Anyway] or [Yes] button.

If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Install this driver software anyway].

[Install this driver software anyway].

If a security warning window appears, be sure to click [I'm sure] or [Close].

• If you are using Windows Vista/Server 2008

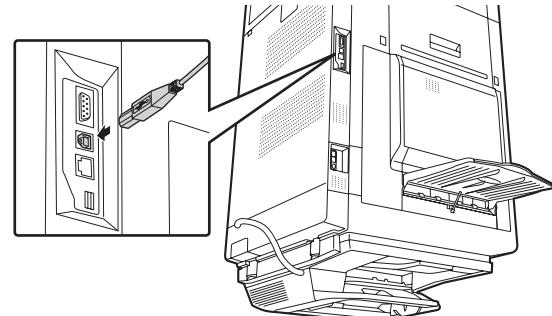
When the "Found New Hardware Wizard" appears, select [Install the software automatically] (Recommended), click the [Next] button, and follow the on-screen instructions.

begins.

## 8 Installation of the PCL6 printer driver

The machine is found and a Plug and Play window appears. The machine is connected to your computer.

(3) Connect the other end of the cable to the USB connector (A type) on your computer.



The USB interface on the machine complies with the USB 2.0 (Hi-Speed) standard. Please purchase a shielded USB cable.

(2) Connect the cable to the USB connector (B type) on the machine.

on.

(1) Make sure that the machine is powered with a USB cable.

## 7 Connect the machine to your computer

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

When a message appears prompting you to connect the machine to your computer, click the [OK] button.

6 Click the [Close] button in the window of step 1.

When a message appears prompting you to connect the machine to your computer, click the [OK] button.

## WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE

• Make sure that a USB cable is not connected to your computer and the machine.

If a cable is connected, a Plug and Play window will appear. If this happens, click the [Cancel] button to close the window and disconnect the cable.

• The PS3 expansion kit is required to use the PS printer driver or the PPD driver.

To use the port created when the printer driver is installed for fax data transfer, install the printer driver first and then install the PC-Fax driver.

• If a supported operating system: Windows 2000\* /XP\* /Server 2003\* /Vista\* /Server 2008\*

\* Administrators' rights are required to install the software.

Supported operating systems: Windows 2000\* /XP\* /Server 2003\* /Vista\* /Server 2008\*

## WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

3 When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.



When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN FOR ALL SOFTWARE" (page 8), perform the steps below.

• Make sure that a USB cable is not connected to your computer and the machine.

If a cable is connected, a Plug and Play window will appear. If this happens, click the [Cancel] button to close the window and disconnect the cable.

• The PS3 expansion kit is required to use the PS printer driver or the PPD driver.

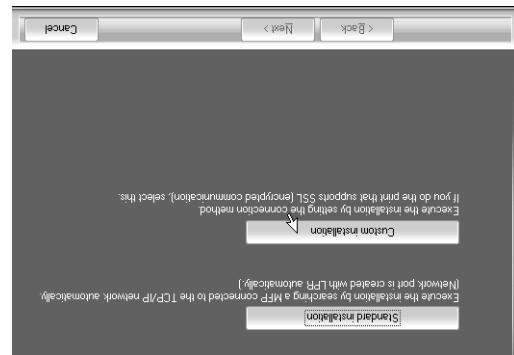
To use the port created when the printer driver is installed for fax data transfer, install the printer driver first and then install the PC-Fax driver.

• If a supported operating system: Windows 2000\* /XP\* /Server 2003\* /Vista\* /Server 2008\*

1 Click the [Printer Driver] button.



2 Click the [Custom Installation] button.



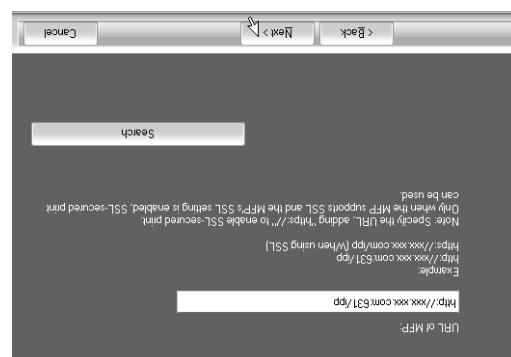
• After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 21) to configure the printer driver settings.

• If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accommodates "DISPLAY FONTS" (page 27).

**This completes the installation.**

## 6 Perform steps 5 through 12 on page 13 to continue the installation.

If your computer and the machine are connected to the same local network, you can click the [Search] button to search for the machine. The machine's URL will appear. Select the URL and click [OK] button. You will return to the above screen and the machine's URL will be automatically entered.



Normal format:  
http://<the machine's domain name or IP address>:<port number>/ipp  
\*2 Normally the port number and the colon ":" are omitted. If the IPP port number for SSL has been immediately preceding the port number can be changed on the machine, enter the new port number.

When SSL is used:  
https://<the machine's domain name or IP address>:<port number>/ipp  
\*1 Normally "631" should be entered for the port number. If the IPP port number has been changed on the machine, enter the new port number.

Normal format:  
Enter the URL in the following format:  
[Next] button.

## 5 Enter the machine's URL and click the

To specify a proxy server, select [Print via the proxy server] and then enter the [Address] and [Port number]. To specify a proxy server and then enter the [Address] and [Port number].

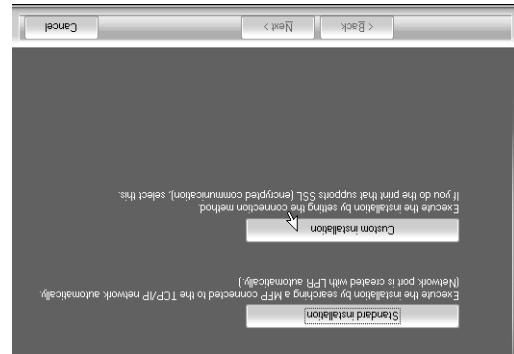
Page 1 of 1

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

To use the SSL function, configure the "SSL Settings" in the system settings (administrator) of the machine. To configure the settings, see "7. SYSTEM SETTINGS" in the Operation Guide.

The IPP function can be used to print to the machine over a network using HTTP protocol. When the machine is in a remote location, this function can be used in place of the fax function to print a high quality image than a fax. The IPP function can also be used in combination with the SSL (encrypted communication) function to print the fax function to the machine in a secure printing with no concern that the data will be leaked to others.

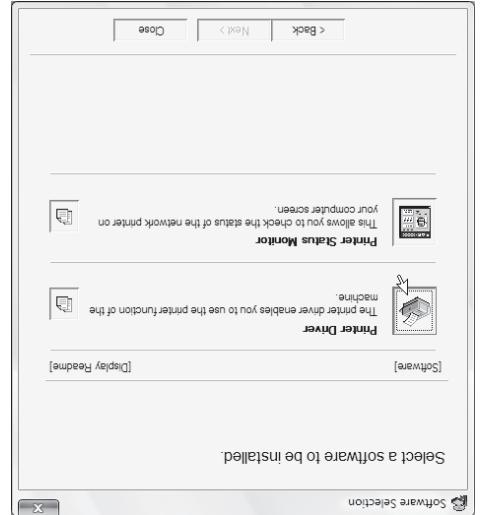
◀ Printing using the IPP function and the SSL function



2 Click the [Custom installation] button.

\* The above screen appears when using the "Disc 1" CD-ROM.

## ANSWER



button on the "Disc 2" CD-ROM.

To install the PC-Fax driver, click the [PC-Fax Driver] button.

www.english-test.net

1

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 21) to configure the printer driver settings.
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS expansion kit. See "INSTALLING THE PS DISPLAY FONTS" (page 27).
- If the machine is being used on an IPv6 network, enter any numbers or characters.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

of step 1.

- If you are using Windows Vista/Server 2008
  - If a security warning window appears, be sure to click [Install this driver software anyway].
- If you are using Windows 2000/XP/Server 2003
  - If a warning message regarding the Windows logo test or digital signature apppears, be sure to click the [Continue Anyway] or [Yes] button.

Read the message in the window that appears and click the [Next] button. Installation begins.

- When the PC-Fax driver is being installed, this screen appears. Go to the next step.
- If you are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.
- If you are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.

If you wish to change the prime name, enter the desired name and click the **[Next]** button.

When the printer name window appears, click the [Next] button.

Select whether or not you wish the printer to be your default printer and click the [Next] button.

- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- The [PPD] checkbox only appears if you are using Windows 2000/XP/Server 2003/Vista/Server 2008.



Click the checkbox of the printer driver to be installed so that a checkmark () appears.

When the printer driver selection window appears, select the printer driver to be installed and click the [Next] button.

When the model selection window appears, select the model name of your machine and click the [Next] button.

4 Enter any numbers or characters.  
If the machine is being used on an IPv6 network,



(page 7)

5 Checking the IP address of the machine  
[Next] button.  
address of the machine and click the  
[host name] or IP

4



button.

3 When you are asked how the printer is  
connected, select [LPR Direct Print]  
(Specify Address) and click the [Next]  
button.

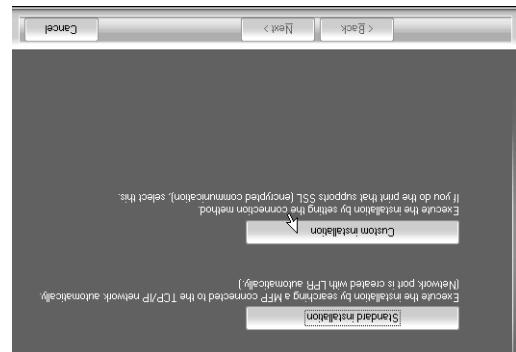
When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN FOR ALL SOFTWARE" (page 8), perform the steps below.

If the machine is being used on an IPv6 network, after you have installed the software as explained below, change the port as explained in "Changing to a Standard TCP/IP Port" (page 30).

If the machine is being used on an IPv6 network, after you have installed the software as explained below, change the name (host name) or IP address of the machine.

When the machine cannot be found because it is not powered on or otherwise, installation is possible by entering the

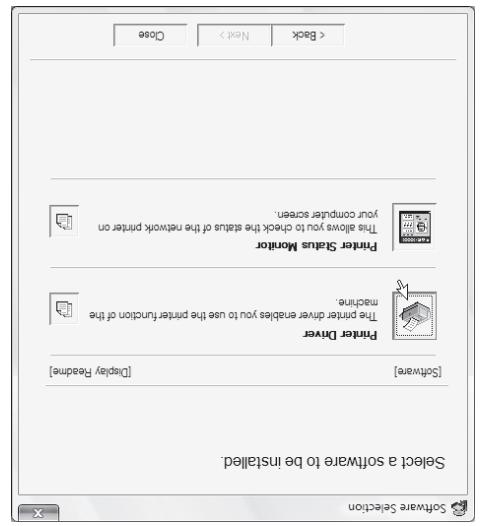
◀ Installation by specifying the machine's address



2 Click the [Custom Installation] button.

\* The above screen appears when using the "Disc 1" CD-ROM.

\* The above screen appears when using the "Disc 2" CD-ROM.



To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

To install the PC-Fax driver, click the [PC-Fax Driver]

## 6 When you are asked whether or not you want the printer to be your default printer, make a selection and click the [Next] button.

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.



## 7 Follow the on-screen instructions.

This completes the installation.

- After the installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 21) to configure the printer driver.
- If you installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS expansion kit. See "INSTALLING THE PS DISPLAY FONTS" (page 27).
- If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 20) to install the printer driver on each of the client computers.

- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- If you are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.
- If you click the [Custom Installation] button in step 2, the following windows will appear.
  - To install the display fonts for the PCL printer driver, select [Yes] and click the [Next] button.
  - To install the printer name window, if you wish to change the printer name, enter the desired name and click the [Next] button.
  - Window confirming installation of the display fonts
    - If you clicked the [Custom Installation] button in step 2, select [Yes] and click the [Next] button.
    - If you do not wish to set one of the printer drivers as the default printer, select [No].

## 8 When the installation completed screen appears, click the [Ok] button.

- If you are using Windows Vista/Server 2008
  - If a security warning window appears, be sure to click the [Install this driver software anyway] button.
  - If a security warning window appears, be sure to click [Continue Anyway] or [Yes] button.
- If you are using Windows 2000/XP/Server 2003
  - If a warning message regarding the Windows logo [Install this driver software anyway].
  - If a security warning window appears, be sure to click [Continue Anyway] or [Yes] button.

## 9 Click the [Close] button in the window of step 1.

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

5 When the printer driver selection window appears, select the printer driver to be installed and click the [Next] button.

4 A confirmation window appears. Check the contents and then click the [Next] button.

- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The PS3 expansion kit is required to use the PS printer driver or the PPD driver.

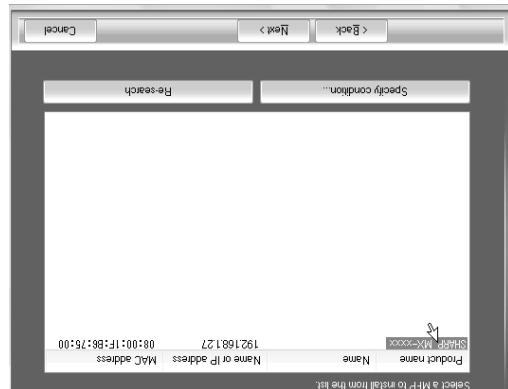
Click the checkbox or the printer driver to be installed so that a checkmark (  ) appears.

driver to be installed and click the [Next] button.

button.

- You can also click the [Specify condition] button and search for the machine by entering the machine's name (host name) or IP address.
- Clicking the IP address of the machine (page 7)

- If the machine is not found, make sure that the machine is powered on and that the machine is connected to the network, and then click the [Find] button.



Printers connected to the network are detected. Select the machine and click the [Next] button.

- When [Custom Installation] is selected, you can change any of the items below. When [Standard Installation] is selected, the installation will take place as indicated below.
- Machine connection method: LPR Direct Print (Auto Search), the installation will take place as indicated below.
- Set as default printer: Yes (excluding the PC-Fax driver)
- Printer driver name: Cannot be changed
- PCL printer display fonts: Installed
- If you selected [Custom Installation], select [LPR Direct Print (Auto Search)] and click the [Next] button.
- If you selected other than [LPR Direct Print (Auto Search)], see the following pages:
- LPR Direct Print (Specify Address): page 12
- IPP: page 14 • Shared printer: page 20
- Connected to this computer: page 16

2 Click the [Standard installation] button.

# INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

**WHEN THE MACHINE IS CONNECTED TO A NETWORK**

To install the printer driver or the PC-Fax driver, follow the appropriate procedure in this section depending on whether the machine is connected to a network or connected by USB cable.

WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 16)

This section explains how to install the printer driver and the PC-Fax driver when the machine is connected to a Windows network (TCP/IP network).

**Supported operating systems: Windows 2000\* /XP\* /Server 2003\* /Vista\* /Server 2008\***

\* Administrators' rights are required to install the software.

- The PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- To print to the machine over the Internet using the IPP function, see "Printing using the IPP function and the SSL function" (page 14) and install the printer driver or the PC-Fax driver.
- The software cannot be installed by specifying the machine's address" (page 12), change the port as explained in "Changing to a standard TCP/IP Port" (page 30).
- The software cannot be installed by detecting the machine's address from the installer. After installing the software as explained in "Installation by specifying the machine's address" (page 12), change the port as explained in "Changing to a standard TCP/IP Port" (page 30).
- If the machine is connected to an IPv6-only network

The software cannot be installed by specifying the machine's address from the installer. After installing the software as explained in "Installation by specifying the machine's address" (page 12), change the port as explained in "Changing to a standard TCP/IP Port" (page 30).

The machine is for both the printer driver and the PC-Fax driver, although the explanations are centred on the printer driver.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

**Standard installation**

To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

**1 Click the [Printer Driver] button.**



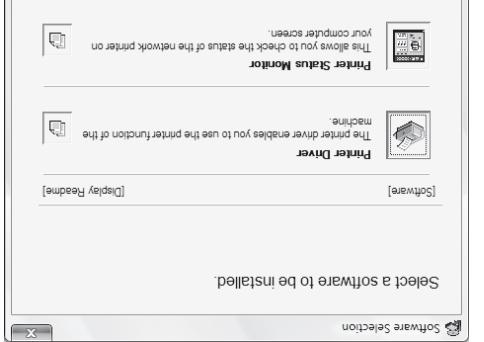
\* The above screen appears when using the "Disc 1" CD-ROM.

## OPENING THE SOFTWARE SELECTION

### 6 The software selection screen appears.

- Before installing the software, be sure to click the [Display Readme] button and view the detailed information on the software.

- The above screen appears when using the "Disk 1" CD-ROM.



## SCREEN (FOR ALL SOFTWARE)

### 2 SETUP IN A WINDOWS ENVIRONMENT

This section explains how to install the software and configure settings so that the printer and scanner function of the machine can be used with a Windows computer.

### 1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.

- If you are installing the printer driver or printer status monitor, insert the "Software CD-ROM" that shows "Disk 1" on the front of the CD-ROM.
- If you are installing the PC-Fax driver or scanner driver, insert the "Software CD-ROM" that shows "Disk 2" on the front of the CD-ROM.

### 2 Click the [Start] button ( ), click [CD-ROM] icon, and then double-click the [Computer] icon, and double-click the [CD-ROM] icon ( ).

- In Windows XP/Server 2003, click the [start] button, click [My Computer], and then double-click the [CD-ROM] icon.
- In Windows 2000, double-click [My Computer] and [CD-ROM] icon.
- In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

### 4 The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

- Read the message in the "Welcome" window and then click the [Next] button.

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

USB cable, see "WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE" (page 16).  
 The machine and computer should be connected while the printer driver is being installed. If a USB cable is connected before the printer driver is installed, the printer driver will not be installed correctly. For the procedure for connecting a USB cable, see "WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE" (page 16).  
 The machine cannot be used in a Macintosh environment. (The USB interface on the machine can be connected to a computer using a USB cable if the computer is a Windows computer.)

## CONNECTING THE MACHINE WITH A USB CABLE

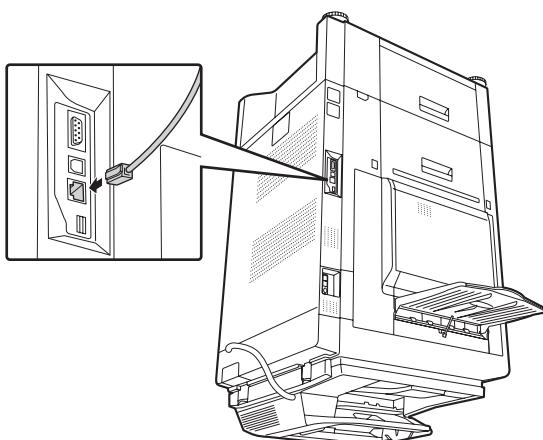
You can check the IP address by pressing the [SYSTEM SETTINGS] key on the machine and printing out the "All Custom Setting List" from [List Print (User)].

### ◀ Checking the IP address of the machine

- If the machine is used in a DHCP environment, the IP address of the machine may change. If this happens, printing will not be possible. This problem can be avoided by using a WINS server or by assigning a permanent IP address to the machine.
- This manual explains how to set up the software in a Windows network environment a permanent IP address to the machine.
- To use the machine on an IPv6 network, the IPv6 setting must be enabled in "Network Settings" in the system settings environment.
- To use the machine (administrator).



Network settings can be configured using "Network Settings" in the system settings (administrator) on the machine. After connecting the machine to a network, be sure to configure the IP address and other network settings before installing the software. (The factory default setting for the IP address is to receive the IP address automatically when the machine is used in a DHCP environment.)



To connect the machine to a network, connect the LAN cable to the machine's network connector. Use a shielded LAN cable.

## CONNECTING TO A NETWORK

## CONNECTING THE MACHINE

- \*3 The scanner driver, Printer Status Monitor, and Printer Administration Utility cannot be used on an IPv6-only network.
- \*2 When the Internet fax expansion kit is installed, the PC-Fax driver can be updated using the "PRINTER UTILITIES" CD-ROM to enable the driver to be used as a PC-Fax driver. In this case, the driver can be used without the facsimile expansion kit.
- \*1 For the types of computers and operating systems that can run the software, see "SYSTEM REQUIREMENTS" (page 5).

| Operating system | Type of connection*1                                  | Software                         | Required expansion kits                    | Windows |
|------------------|---|----------------------------------|--|---------|
|                  | Network/ USB  | PC-L6 printer driver             | Can be used in the standard configuration. |         |
|                  |   | PS printer driver,<br>PPD driver | PS3 expansion kit                          |         |
|                  |   | PC-Fax driver                    | Facsimile expansion kit*2                  |         |
|                  |   | Scanner driver                   | Can be used in the standard configuration. |         |
| Macintosh        | Network only*3 (cannot be used with a USB connection) | Printer Status Monitor           | Printer Administration Utility             |         |
|                  |   | Macintosh PPD file               | PS3 expansion kit                          |         |

The following requirements must be met to use the software described in this manual.

## SOFTWARE REQUIREMENTS

# VERIFYING SYSTEM REQUIREMENTS

Before installing the software described in this manual, make sure that your computer satisfies the following requirements.

| Operating system  | Windows | Macintosh*3 |
|---|---------|-------------|
| Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows 2000 Server, Mac OS X 10.2.8, Mac OS X 10.3.9, Mac OS X 10.4.11, Mac OS X 10.5.6 |         |             |
| Windows Server 2003, Windows Vista, Windows Server 2008   |         |             |
| IBM PC/AT compatible computer   |         |             |
| An environment in which any of the operating systems listed above can fully operate board or equipped standard with a USB 2.0/1.1 <sup>2</sup> port.                  |         |             |
| 1024 x 768 dots resolution and 16-bit colour or higher is recommended.  |         |             |
| Display   |         |             |
| Other hardware  |         |             |
| An environment that allows any of the above operating systems to fully operate.   |         |             |
| systems to fully operate.   |         |             |

- \*1 The machine's USB 2.0 port will transfer data at the speed specified by the USB 2.0 (Hi-Speed) standard only if the Microsoft USB 2.0 driver is preinstalled in the computer, or if the USB 2.0 driver for Windows 2000 Professional that Microsoft provides through "Windows Update" is installed.
- \*2 Compatible with models preinstalled with Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows Server 2003, Windows Vista, or Windows Server 2008, and which are equipped standard with a USB interface.
- \*3 Cannot be used when the machine is connected with a USB cable. The PC-Fax driver and scanner driver cannot be used.

To perform the procedures described in this manual such as installing the software and configuring settings after installation, administrator authority is required.

For users of Windows 2000/XP/Server 2003/Vista/Server 2008



## OTHER CD-ROMS

- ◀ **“PRINTER UTILITIES” CD-ROM that accompanies the PS3 expansion kit (for Windows/Macintosh)**
  - ☞ INSTALLING THE PS DISPLAY FONTS (page 27)
    - This contains the display fonts that are used with the PS printer driver.
    - (Install the PS printer driver and Macintosh PPD file from the “Software CD-ROM”.)

- ◀ **“PRINTER UTILITIES” CD-ROM that accompanies the Internet fax**
  - ☞ INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 9)
    - If you wish to use the PC-Fax function, first install the PC-Fax driver from the “Software CD-ROM” so that it can be used to send Internet faxes (PC-Fax function).
    - If you wish to use the PC-Fax function, first install the PC-Fax driver from the “Software CD-ROM”. (There is no need to reinstall the PC-Fax driver.)

- ◀ **“Sharpdesk Network Utilities” CD-ROM (for Windows)**
  - This contains software that helps you get the most out of the images that you scan on the machine. The software includes “Sharpdesk”, a desktop document management application that enables integrated management of scanned images and files created using a variety of applications. To use the “Scan to Desktop” scanner function, the “Network Scanner Tool” must be installed from the CD-ROM.
  - For the system requirements of the software, see the manual (PDF format) in the “Manual” folder or the Readme file on the CD-ROM. For the procedures for installing the software, see the “Sharpdesk Installation Guide”.

## Software for Windows

- **PC-Fax driver**

This enables you to send a file from your computer as a fax using the same procedure as when printing the file. (When the fax option is installed.)

Even if the fax function is not installed, the PC-Fax driver can be updated using the CD-ROM in the Internet fax expansion kit to enable you to send a file from your computer as an Internet fax in the same way as you print a file.

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 9)
- **Scanner driver (TWAIN driver)**

This allows you to use the scanner function of the machine from a TWAIN-compliant software application.

INSTALLING THE SCANNER DRIVER (page 25)
- **Printer Administration Utility**

This allows the administrator to monitor the machine and configure machine settings from a computer. To install and use the Printer Administration Utility, see the Readme file and the manual in PDF format on the "Software CD-ROM" (Disc 2). The Readme file and manual are in the following folder on the CD-ROM. (Substitute the letter of your CD-ROM drive for "R" in the following path.)

R:\Software\Documentation\English

## Software for Macintosh

- **PPD file**

This is the printer description file which enables the machine to be used as a PostScript 3 compatible printer. The PS3 expansion kit is required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network. A USB connection cannot be used.

MAC OS 9.0 - 9.2.2 (page 37)
- **MAC OS X (page 32)**

The PS3 expansion kit is required to use the machine in a Macintosh environment.
- **MAC OS 9.0 - 9.2.2 (page 37)**

The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.

- **Printer Status Monitor (can only be used when the machine is connected to a network)**
  - ☞ **PRINTING THE PRINTER STATUS MONITOR (page 24)**  
This allows you to monitor the status of the machine on your computer screen.
- **PPD driver**
  - ☞ **WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 16)**  
The PPD driver enables the machine to use the standard Windows PS printer driver.
  - ☞ **WHEN THE MACHINE IS CONNECTED TO A NETWORK (page 9)**  
The PPD driver incorporates the PostScript 3 page description language developed by Adobe Systems
- **PS printer driver**
  - ☞ **WHEN THE MACHINE SUPPORTS THE HEWLETT-PACKARD PCL6 PRINTER CONTROL LANGUAGES.**  
The machine supports the Hewlett-Packard PCL6 printer control languages.
- **PCL6 printer driver**
  - ☞ **THESE ALLOW THE MACHINE TO BE USED AS A PRINTER.**  
These allow the machine to be used as a printer.
- **Printer driver**
  - ☞ **SOFTWARE FOR WINDOWS**  
DISC 1

The "Software CD-ROM" that accompanies the machine contains the printer driver and other software. The "Software CD-ROM" consists of 2 discs.

## SOFTWARE CD-ROM

The software that can be used with the machine is on the CD-ROMs that accompany the machine and the expansion kits. Before installing the software, make sure that your computer and the machine meet the system requirements described in "VERIFYING SYSTEM REQUIREMENTS" (page 5).

## CD-ROMS AND SOFTWARE

This chapter describes the software programs that allow you to use the printer and scanner functions of the machine, the CD-ROMs that contain the software, and the pages where the installation procedures can be found.

**1** BEFORE INSTALLING THE SOFTWARE

# TABLE OF CONTENTS

|  |                                  |
|--|----------------------------------|
| <b>1</b>   | BEFORE INSTALLING THE SOFTWARE   |
| <b>2</b>   | SETUP IN A WINDOWS ENVIRONMENT   |
| <b>3</b>   | SETUP IN A MACINTOSH ENVIRONMENT |
| <b>4</b>   | ROUBLESHOOTING                   |
| CD-ROMS AND SOFTWARE                                     | 2                                |
| • SOFTWARE CD-ROM  | 2                                |
| • OTHER CD-ROMS  | 4                                |
| VERIFYING SYSTEM REQUIREMENTS                            | 5                                |
| • SYSTEM REQUIREMENTS                                    | 5                                |
| • SOFTWARE REQUIREMENTS                                  | 6                                |
| CONNECTING THE MACHINE                                   | 7                                |
| • CONNECTING TO A NETWORK                                | 7                                |
| • CONNECTING THE MACHINE WITH A USB CABLE (Windows)      | 7                                |
| OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE) | 8                                |
| INSTALLING THE PRINTER / PC-FAX DRIVER                   | 9                                |
| • WHEN THE MACHINE IS CONNECTED TO A NETWORK             | 9                                |
| • WHEN THE MACHINE IS CONNECTED TO A DRIVE               | 16                               |
| • CONNECTED WITH A USB CABLE                             | 16                               |
| • USING THE MACHINE AS A SHARED PRINTER                  | 20                               |
| THE OPTIONS INSTALLED ON THE MACHINE                     | 21                               |
| INSTALLING THE PRINTER STATUS MONITOR                    | 24                               |
| • INSTALLING THE SCANNER DRIVER                          | 25                               |
| • CHANGING THE PS DISPLAY FONTS                          | 27                               |
| CHANGING THE PORT  | 28                               |
|  |                                  |

The SOFTWARE LICENSE will appear when you install the software from the CD-ROM. By using all or any portion of the software on the CD-ROM or in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENSE.

## SOFTWARE LICENSE

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.

For some functions and procedures, the explanations assume that devices other than the above are installed.

The explanations in this manual assume that a right tray and stand/2 x 500 sheet paper drawer are installed on the machine.

The peripheral devices are generally optional, however, some models include certain peripheral devices as standard equipment.

### Illustrations and the operation panel and touch panel shown in this manual

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### Warning

to use of the product.

options, or failures due to incorrect operation of the product and its options, or other failures, or for any damage that occurs due to use of the product.

• Aside from instances provided for by law, SHARP is not responsible for failures occurring during the use of the product or its discoveries, please contact your dealer or nearest authorised service representative.

• This product has undergone strict quality control and inspection procedures. In the unlikely event that a defect or other problem is discovered, please contact your dealer or nearest authorised service representative.

• Considerable care has been taken in preparing this manual. If you have any comments or concerns about the manual, please contact your dealer or nearest authorised service representative.

• This manual contains references to the fax function. However, please note that the fax function is not available in some countries and regions.

• Wherever "MX-xxxx" appears in this manual, please substitute your model name for "xxxx".

• Mac OS X V10.4 in Macintosh environments. The screens may vary depending on the version of the operating system.

• The explanations of screens and procedures in this manual are primarily for Windows Vista® in Windows® environments, and

• For information on your operating system, please refer to your operating system manual or the online Help function.

• The explanations in this manual assume that you have a working knowledge of your Macintosh computer.

### Please note

If the software is not installed correctly or you need to remove the software, see "4. TROUBLESHOOTING" (page 39).

installed, and how to install the scanner driver.

This manual also explains how to install the printer drivers and software that are used when the expansion kits are

machines to be used as a printer or scanner for a computer.

Thank you for purchasing this product. This manual explains how to install and configure the software that allows the

These manuals are combined for environmental protection.

Please see opposite side to access to "Safety Guide".



PRINTED IN FRANCE  
TINSE4600GHZZ

Keep this manual close at hand for reference whenever needed.

This product can only be installed on a number of additional computers equal to the number of licenses. Any computers equal to the number of licenses. Any

# Installation Guide

## Sharpdesk

TRROUBLESHOOTING

SETUP IN A MACINTOSH  
ENVIRONMENT

SETUP IN A WINDOWS  
ENVIRONMENT

BEFORE INSTALLING  
THE SOFTWARE

Sharpdesk Serial Numbers

Please keep this manual as the information mentioned below is very important.



# Software Setup Guide

DIGITAL FULL COLOUR MULTIFUNCTIONAL SYSTEM

MODEL: MX-2301N

**SHARP**®