

# SHARP

## MX-M450/M350-U/N

U model: Digital Laser Copier/Printer

N model: Digital Multifunctional System



### Optimise Workflow with a Secure, Flexible Solution



..... **be sharp**



# Opting for the Best

Nowadays, even the choice of office equipment can make a competitive difference. When it comes to document management systems, you need a powerfully effective centralised solution with a host of productivity-boosting options and system configurations to flexibly meet and grow with your office needs. You need the MX-M450/M350 series (MX-M450U/N, MX-M350U/N) designed to optimise and accelerate document workflow. Enhanced scanner functions conveniently set the stage for digitalised, paperless workflow. And exceptional networking capability and industry-leading security solutions deliver office communications efficiently and safely, all in a user-friendly package. So make a choice: opt for the best, then be the best.

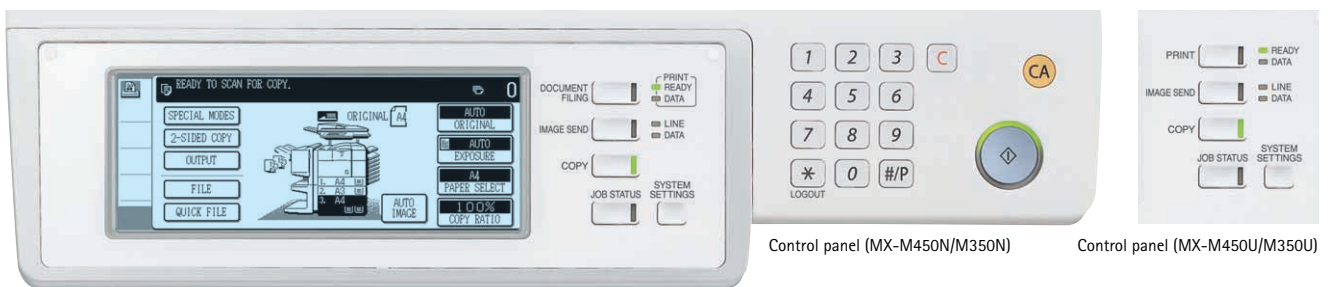


## MX-M450/M350-U/N

U model: Digital Laser Copier/Printer  
N model: Digital Multifunctional System

### Easy to Use, Easy on the Earth

Everyone in your office, regardless of experience or ability, can effortlessly navigate their way through the MX-M450/M350 series' advanced functions thanks to the user-friendly control panel featuring a large, 8.9-inch touch-screen LCD and concave-shaped keys for greater fingertip control.



The MX-M450/M350 series complies with the RoHS Directive restricting the use of hazardous substances, and has been recognised by the Energy Star programme\*, an international system for identifying energy-efficient products.



\* The MX-M450U/N fully qualifies for the Energy Star programme when used with either the duplex module or duplex module with bypass tray.

| COPYING AND PRINTING | NETWORK SCANNING | DOCUMENT FILING | FAXING | SECURITY | ENVIRONMENT & USER-FRIENDLY | OPTIONS | SPECIFICATIONS |
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## Key Features

### Productive Copying and Printing

- Speedy output of max. 45/35 ppm and quick first copy time
- 50-sheet Duplex Single Pass Feeder and duplex module\*1
- Professional job finishing options include booklet making and hole-punching
- Productivity-enhancing options include mail bin stacker and large-capacity tray
- Network tandem function\*2 doubles output speed by linking two machines
- Job Build for large-volume documents
- Powerful network printing\*2
- PCL5e/PCL6 and optional PS3 emulation

### Powerful Network Scanning (option)

- Speedy scanning of two-sided documents using the DSPF
- Multiple scan destinations: scan to e-mail/FTP server/HDD/desktop/network folder (SMB)
- LDAP support for easy browsing of e-mail addresses and fax numbers

### Multi-Layered Security

- Secure network interface card restricts unauthorised access\*2
- Optional Data Security Kit\*5 encrypts and erases confidential data
- SSL (secure sockets layer) and IPsec\*5 for secure network communications\*2
- Confidential Print secures printing with PIN code authentication
- User authentication for network scanning



### Versatile Faxing (option)

- Super G3 faxing and JBIG compression
- Inbound routing lets you check incoming faxes via e-mail
- Internet faxing for lower communication charges
- PC-Fax/PC-Internet Fax transmission
- Duplex fax transmission and reception

### All-Around Usability

- 8.9-inch touch-screen LCD control panel
- Supports the latest operating systems and network protocols\*2, including IPv6
- Sharp OSA (Open Systems Architecture)\*4 allows integration with software programmes and makes them accessible from the LCD control panel
- Advanced device management with Sharp network utilities\*2

### Document Management

- Document filing improves workflow efficiency by enabling reuse of processed job data on the hard disk\*3
- Sharpdesk provides easy, integrated document management on a PC

\*1: Duplex module is optional for MX-M350U/N

\*2: U models require optional MX-NBX2 or MX-NBX3

\*3: U models require optional MX-NBX3

\*4: Requires optional MX-AMX2 and/or MX-AMX3; U models also require MX-NBX3

\*5: Available at a later date

# COPYING AND PRINTING

## Quick First Copy Time

The MX-M450/M350 series has a quick first copy time of **4.4/4.9 seconds** to save valuable time when performing multiple short-run jobs.



## Fast Output Speed

With a continuous output of **45/35 cpm/ppm\***, the MX-M450/M350 series allows you to produce large-volume documents that include memory-intensive graphics in less time.

\* A4 (8 1/2" x 11") size, portrait



## Duplex Single Pass Feeder (DSPF)

The MX-M450/M350 series can be equipped with an optional 50-sheet **DSPF** (duplex single pass feeder), which **scans both pages** of two-sided documents **up to A3** (11" x 17") in size in one pass. Doing away with the reversing circuit minimises paper misfeeds and vastly improves reliability. With a scanning speed of 60 pages per minute for two-sided originals and 37 pages for single-sided in Standard mode, the MX-M450/M350 series finishes even large projects quickly.



## Job Build for Large-Volume Scanning

The MX-M450/M350 series easily handles copy jobs exceeding the DSPF's 50-sheet capacity\*<sup>1</sup>. Large-volume documents of up to 10,000 pages\*<sup>2</sup> are automatically stored in the MX-M450/M350 series' hard disk\*<sup>3</sup>. Users can then print the entire document in a single run.

\*1: A4 (8 1/2" x 11") size

\*2: Measured using Sharp's standard chart (A4 with 6% coverage). The number of pages that can be stored for the Job Build function depends on the machine's HDD capacity and other conditions.

\*3: U models require optional MX-NBX3

## Automated Job Finishing

The MX-M450/M350 series makes it easy to create professional-looking booklets. Working together with the highly productive stackless duplex module, the optional **Saddle Stitch Finisher** folds and staples sets of documents to make completed booklets. A **Finisher** is also available for jobs that require only simple sorting and stapling. And, a **Punch Module** allows you to punch holes in documents for easy filing. These high-performance finishing capabilities save you valuable time and money by reducing costly outsourcing.



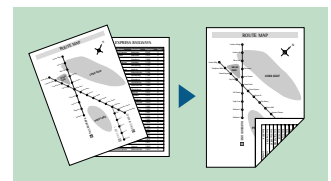
## Highly Productive Output

The MX-M450/M350 series' Scan Once/Print Many function requires only a single scan of a multi-page original for copying, while its RIP Once/Print Many function needs only a single download of the print data from the PC for printing. The MX-M450/M350 series then automatically outputs **collated** sets of copies or printouts in the proper page order. Each set is **stacked offset** for easier retrieval and up to **999 copies** can be made directly from memory. This highly productive process allows you to easily handle high-volume jobs.

## Duplex Copying/Printing

The MX-M450/M350 series can make **two-sided copies and printouts** when equipped with the duplex module or duplex module with bypass tray\*, effectively reducing paper costs as well as saving filing space. Duplex copying is even more productive when used together with the DSPF.

\* The MX-M450U/N must be equipped with either the duplex module or duplex module with bypass tray to comply with Energy Star guidelines



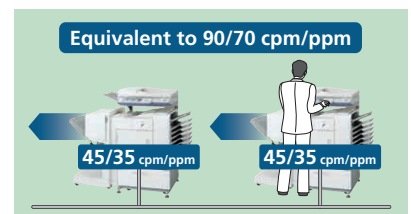
## Large Paper Capacity

For large-volume jobs and a wider selection of available paper sizes, the MX-M450/M350 series can accommodate optional paper drawers for a capacity of up to **3,100 sheets**. When a tray runs out of paper, the **Auto Tray Switching** function automatically switches to another paper tray filled with the same size paper. This allows you to do extra-large volume jobs without worrying about running out of paper.



## Network Tandem Function

When two MX-M450/M350 series machines are connected to the same office network, you can use both simultaneously to double output to up to **90/70 cpm/ppm**. Operation is simple and the machines can even be in different locations. With just a few keystrokes, you can handle large-volume jobs to meet tight deadlines.



Note: Network print function is standard on N models but U models require optional MX-NBX2 or MX-NBX3 Network Expansion Kit.



## PCL6 and PostScript 3 Emulation

PRINT

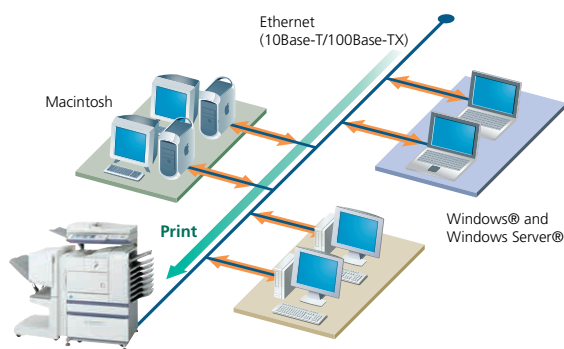
The MX-M450/M350 series supports **PCL5e** and **PCL6** printer languages. For compatibility with **PostScript 3**, the AR-PK6 PS3 Expansion Kit is available.

## Powerful Network Printing

PRINT

The MX-M450/M350 series works as a network printer\* with the latest and most commonly used network operating systems and protocols, including IPv6, and even in mixed network OS environments. With a 64-bit, 466-MHz CPU, you get powerful network printing via 100Base-TX and 10Base-T Ethernet standards.

\* U models require optional MX-NBX2 or MX-NBX3



## Superb Image Quality

COPY  
PRINT

You get ultra-detailed reproduction with 600 x 600-dpi resolution. The printing resolution can be enhanced to **1,200 dpi** (with smoothing). Digital Auto Exposure Control provides optimum copy contrast, and Text/Photo mode automatically adjusts the copy contrast for documents containing both text and photos.

## Priority Printing

PRINT

In Job Status mode, the control panel displays a list of all jobs, whether printing, copying, scanning or faxing. See at a glance which job is in progress and where your job is in the queue. You can also **change the print queue order** with one touch of the LCD screen. Urgent jobs can receive priority, meaning you don't have to wait until other jobs are finished.



## Bypass Printing

PRINT

When conventional printers run out of the paper needed for a specific job, the machine stops until it is reloaded. With the MX-M450/M350 series, however, you never need to wait on someone else's job; the MX-M450/M350 series automatically **proceeds to the next possible job** in the queue.

## Mail Bin Stacker

PRINT

The optional Mail Bin Stacker is ideal for offices where large groups of people use the same machine. When printing, avoid mixing up your documents with those of other users by pre-selecting one of **seven destination bins** for your documents.



## Various Copy/Print Applications

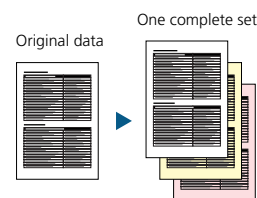
COPY  
PRINT

PRINT

- With **PDF/TIFF Direct Print**, you save valuable time by printing PDF and TIFF files without using the printer driver or opening applications: you can print the file directly from an FTP server (pull print), a Web page (push print), or an e-mail attachment.

Note: Direct PDF printing requires optional AR-PK6; please consult your sales representative for further details.

- **Carbon Copy Print** mode automatically outputs multiple printouts of the same data on plain and/or coloured paper from different paper trays; convenient for invoices and purchase orders.



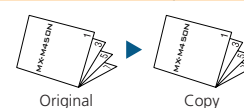
- **Proof Printing** allows you to check a trial set before printing out a document in large numbers in order to avoid printing mistakes.

- **Barcode font** compatibility (requires optional AR-PF1 Barcode Font Kit)

COPY

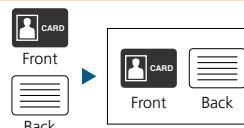
- **Book Copy** is convenient for compiling copies of a book or bound originals into pamphlet format.

Book Copy



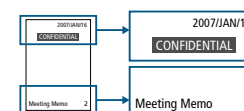
- **Card Shot** enables one-touch copying of both sides of a card (credit cards, ID cards, etc.) onto a single page.

Card Shot



- **Stamp** labels your copy with entered text, page numbers, the date, or a reverse character set such as "CONFIDENTIAL".

Stamp



# NETWORK SCANNING



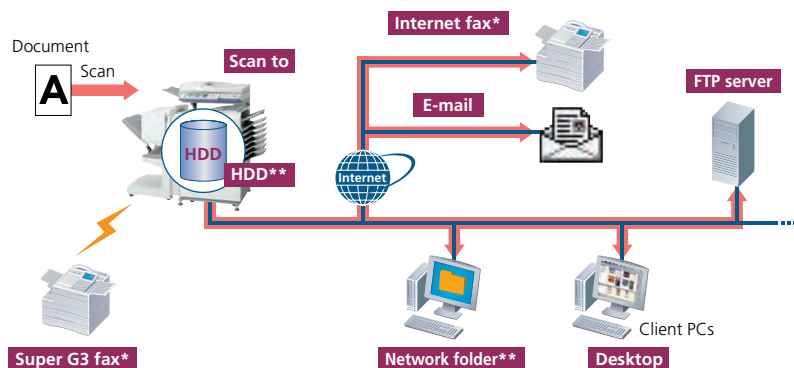
## Speedy A3 Network Scanning

The 50-sheet DSPF and optional MX-NSX1 Network Scanner Expansion Kit turn the MX-M450/M350 series into an ultra-efficient **network scanner\*** that can be used with any Windows PC on the network. Converting any type of paper-based document, up to A3 (11" x 17") in size, into an editable digital file is as easy as making a copy.

\* U models require optional MX-NBX2 or MX-NBX3

## Multiple Distribution of Scanned Files

With the touch of a few buttons, you can choose different ways to distribute your scanned documents. **Scan to E-mail** allows you to send documents as an attachment to any e-mail address over the Internet. **Scan to FTP Server** lets you scan a document directly to an FTP server for special applications such as company-wide posting or archiving. **Scan to Desktop** enables you to send scanned documents directly to your PC desktop. With Sharpdesk, Sharp's powerful but easy-to-use document management software, editing and managing scanned documents is easier than ever. **Scan to HDD** sends scanned images to the MX-M450/M350 series' built-in hard disk to use in the Document Filing function. **Scan to Network Folder (SMB)** sends files to a shared folder on a networked Windows PC. And **Scan to Fax** enables conventional faxing or Internet faxing.



\* Scan to Fax requires optional AR-FX12 and Scan to Internet Fax requires optional MX-FWX1  
 \*\* U models require optional MX-NBX3 for Scan to HDD and Network Folder (SMB)

## Linearised PDF

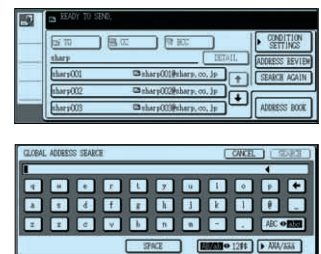
With the MX-M450/M350 series, you can create linearised PDF files, which allow the first page of a PDF file to be displayed in a user's Web browser before the entire file is downloaded. This saves users the time and frustration of having to wait for large PDF files to be displayed in their Web browsers.

## LDAP Support

Built-in LDAP (lightweight directory access protocol) support eliminates the need to enter or register full addresses. Simply enter the first few letters of the recipient's name and the MX-M450/M350 series displays a list of possible matches on your company's LDAP server. This feature saves precious time and lets you avoid errors when typing e-mail addresses. After searching, selected addresses can be stored to the MX-M450/M350 series' address book. And the integrated **User Authentication** function (see page 8) blocks unauthorised access by requiring the user to log in before searching for an address.

## Easy Text Entry

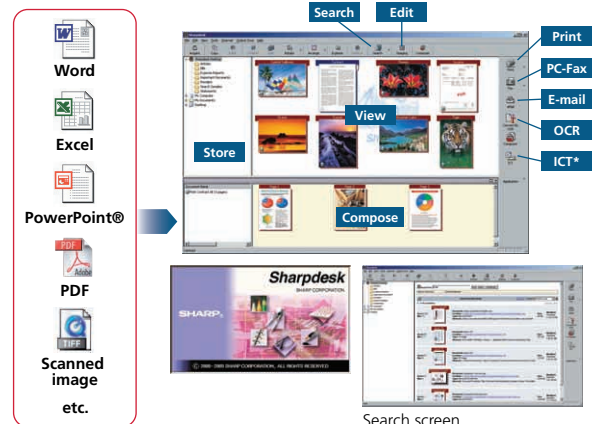
Use the LCD control panel's onscreen keyboard to customise file names or e-mail messages and subject titles, making it easier for the recipient to recognise and archive this information.



## Sharpdesk for Total Document Management

Sharpdesk is an original Sharp application that provides integrated desktop management of documents in over **200 file formats**, including scanned paper-based documents and those created with popular applications such as Word. It allows you to organise, edit, search and distribute your documents, all with simple drag-and-drop operation.

- Intuitive desktop display features **thumbnail** viewing
- Sharpdesk Imaging provides **annotation** tools for paper-free proofreading
- Sharpdesk **Composer** combines different types of files into a single document
- **Optical character recognition** converts documents into editable text files
- **Output zone** distributes files to e-mail, printers and other applications
- **File search** allows searching by file name, keyword or thumbnail



\* Image Compression Tool for converting images into high-compression PDF files.

# DOCUMENT FILING



## Document Management on the Hard Disk

You can save processed job data in designated folders on the MX-M450/M350 series' hard disk\*, making it easy to instantly recall saved documents or jobs for printing and sending at a later time. This contributes greatly to efficient sharing and distribution of information in your business operations.

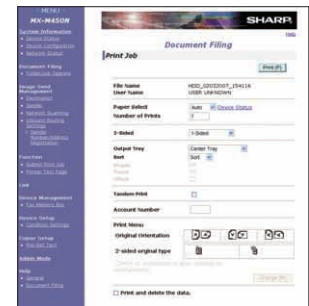
\* U models require optional MX-NBX3

## Easy Access to Stored Files

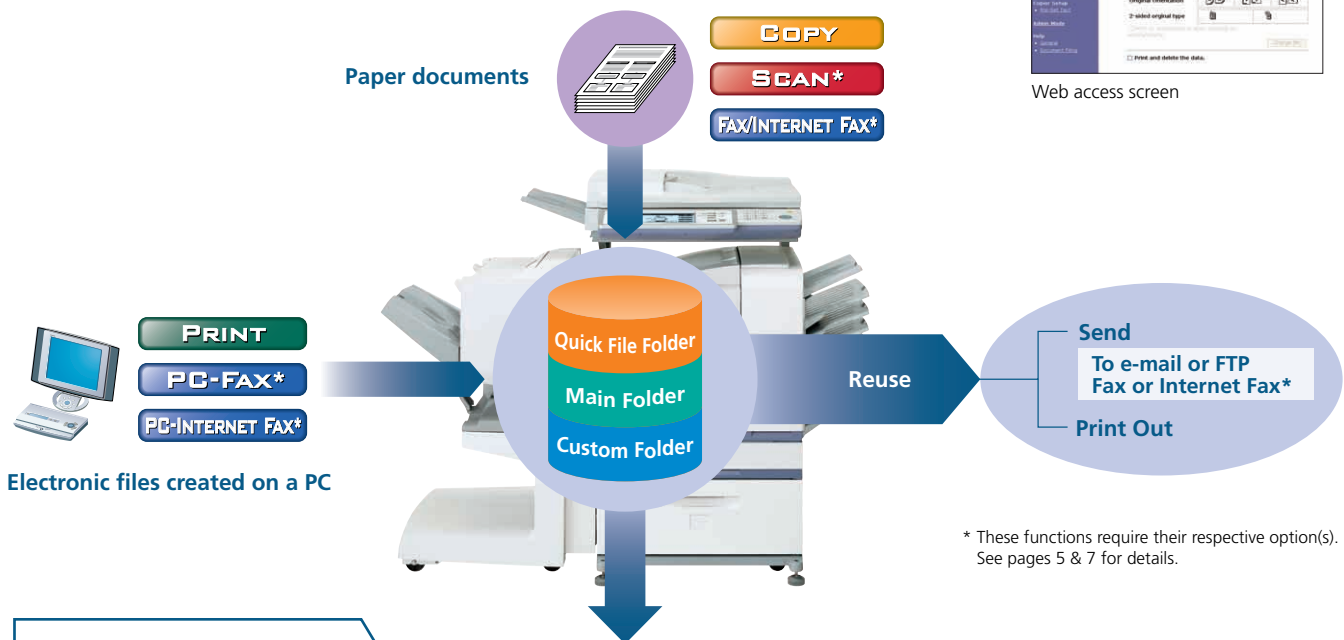
Documents that are stored on the hard disk can be quickly searched and accessed from the control panel display or through a Web browser.



Document Filing screen (Main Folder)



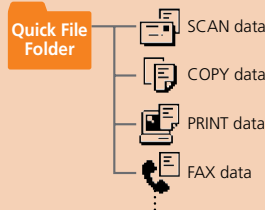
Web access screen



\* These functions require their respective option(s). See pages 5 & 7 for details.

### Quick Filing

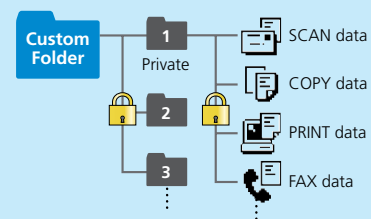
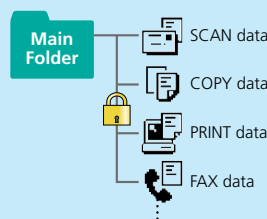
Up to **10,000 pages** or 1,000 files\*<sup>1</sup> that have been copied, printed, scanned or faxed\*<sup>2</sup> can be stored by job on the hard disk in a Quick File Folder. You can reuse saved data with simple operation without having to reload or rescan the original.



### Advanced Filing Function

Up to **20,000 pages** or 3,000 files\*<sup>1</sup> that have been copied, printed, scanned or faxed\*<sup>2</sup> can be stored by job on the hard disk in up to 500 folders with customised names and locations. Enhanced security features require users to enter a 5 to 8-digit password to access secure folders, protecting your sensitive data. Storage options include:

- **Main Folder** – You can store processed files by user name in the main public folder and share them across the workgroup. Any file name and a PIN code can be assigned to each saved job.
- **Custom Folder** – Up to 500 private folders (named as desired) can be created within the Custom Folder. When saving a file in a private folder, any file name can be assigned. A PIN code can be applied to both private folders and files.



\*1: Measured using Sharp's standard chart (A4 with 6% coverage). The Quick File Folder shares the HDD with the Job Build function.

\*2: For fax and Internet fax jobs, only transmitted data (not received faxes) can be saved in the Document Filing function.

# FAXING



## High-Speed Faxing

The optional AR-FX12 Fax Expansion Kit turns the MX-M450/M350 series into a 33.6 Kbps **Super G3 fax**. Using JBIG compression technology, the MX-M450/M350 series can send an A4 (8 1/2" x 11") size page in under 3 seconds\*. Use the 50-sheet DSPF to further boost faxing efficiency. And because Quick On-Line Transmission can start dialling and transmitting as soon as the first page is scanned into memory, you can send documents in **much less time**.

\* Based on Sharp's standard chart with approximately 700 characters (A4 or 8 1/2" x 11" portrait) at standard resolution

## Paperless Faxing with Inbound Routing

The MX-M450/M350 series can be set to forward incoming fax data to a designated e-mail address\*. You can then check those incoming faxes on a PC and print only what you need—a great way to save paper.

\* Requires optional MX-NSX1 and AR-FX12 or MX-FWX1; U models also require MX-NBX3



## PC-Fax/PC-Internet Fax

A PC-Fax/PC-Internet Fax function\* allows you to directly send a document created on your PC to a recipient's fax machine via a phone line or the Internet. Since all faxing procedures are done on your PC without printing to paper, this function saves time and costs, increases faxing productivity, and retains original document quality.

\* PC-fax requires AR-FX12; PC-Internet Fax requires MX-FWX1 and MX-NSX1 (U models also require MX-NBX3)



## Send and Receive Faxes Over the Internet

You can send faxes to other ITU-T T-37-compliant Internet fax machines via the Internet\* without worrying about costs. Plus, you don't need to wait around for transmission since the documents are scanned into and then sent from memory. It's also much faster than public phone lines.

\* Requires MX-FWX1 and MX-NSX1; U models also require MX-NBX3

## Duplex Transmission and Reception

With the DSPF, the MX-M450/M350 series scans both pages of two-sided documents and sorts them in memory. The pages are then transmitted in the proper order. Thanks to the duplex module, the MX-M450/M350 series can also print incoming faxes onto both sides of paper, thus saving you paper costs.

## 999-Number Auto Dialling

Register up to 999\* frequently used numbers into the customisable directory of one-touch auto-dial keys, listed in alphabetical order for easy searches of specific numbers.

\* 500 for U models without HDD



## Multi Access Function

You get two different functions simultaneously; for example, you can scan documents into memory for transmission while you receive an incoming fax.

## Flash Memory Backup

In case of power failure, documents stored in memory are retained until power is restored, preventing data from being lost.

## Super Fine Mode

You can set the MX-M450/M350 series to this ultra-high resolution to give the recipient crisp, clear reproduction of detailed images and fine text.

## Other Key Features

- **Long originals** (up to 800 mm long) can be sent using the DSPF
- **Broadcast transmission** to up to 500 destinations (300 for U models without HDD)
- **Programme keys** (up to 8 keys) are available to set up frequently used transmissions for instant recall
- **Mixed size original scanning** automatically distinguishes documents of mixed sizes fed through the DSPF
- Convenient **image editing** functions: Edge/Centre Erase, 2-in-1, Card Shot
- **F-Code communication** enables confidential communication, relay request transmission, and memory polling with fax machines from other brands that conform to the ITU-T F-Code (sub-address and pass code) standard
- **Automatic transmission reduction** automatically reduces the size of the document being sent to fit the paper size of the recipient machine
- **Memory transmission/reception** stores documents in memory, allowing the originals to be returned to the user quickly and saving incoming faxes in memory if the MX-M450/M350 series runs out of paper or toner
- **Timer transmission** enables unattended after-hours operation when reduced phone rates are in effect
- **Polling** allows the user to retrieve a document left in the feeder of a remote fax machine
- **Print actual size** prints out long-length faxes onto separate sheets of paper
- **Rotation reception/transmission** rotates incoming or outgoing faxes to match the direction of the printing paper

Note: The AR-FX12 may not be available in some regions.



# SECURITY



## Industry-Leading Multi-Layered Security

With multiple levels of network and data security to cover a wide range of security needs, Sharp's industry-leading security solutions bring today's businesses increased confidence and peace of mind. The MX-M450/M350 series safeguards sensitive data with powerful, enhanced security functions that eliminate the worry of unauthorised use and guarantee greater protection for your confidential information.

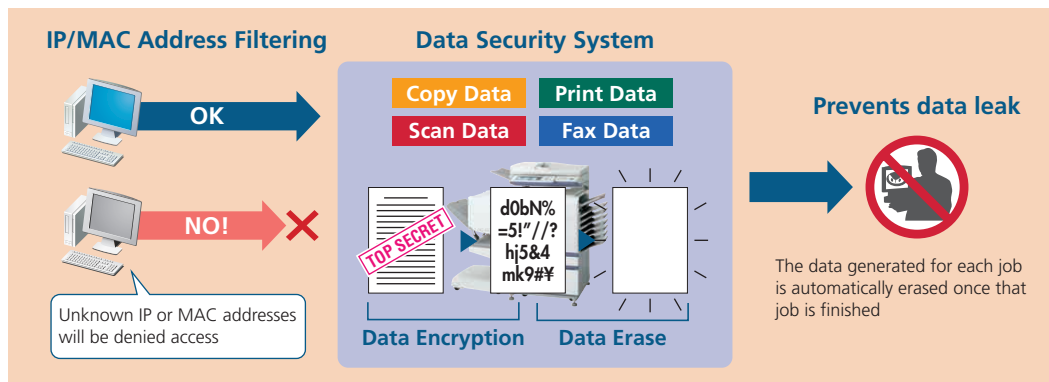
### Data Security Kit

Digital copier/printers or multifunction products can retain hundreds of pages of confidential information from previous jobs on their hard disks or internal memory. To safeguard this information from unauthorised access, the optional **Data Security Kit** automatically **encrypts and erases** the data after each job is complete as well as data stored both on the hard disk and in the address book.

### IP/MAC Address Filtering

The MX-M450/M350 series' network interface card\* provides highly secure operation by restricting access to the MX-M450/M350 series on your office network. Only PCs that have either their **IP address** or **MAC (media access control) address** registered are allowed to use the MX-M450/M350 series. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use.

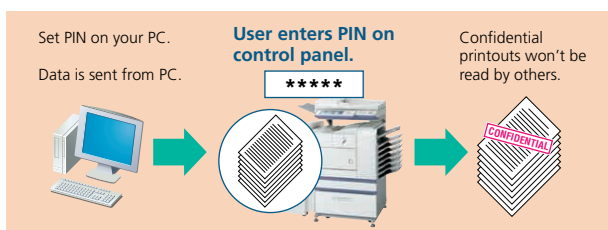
\* U models require optional MX-NBX2 or MX-NBX3



### Print Hold and Confidential Print

To keep others from seeing confidential documents as they are being printed out, the MX-M450/M350 series' **Print Hold** function\* stores print data on its hard disk and withholds output until the user executes a print command from the control panel. For added security, the **Confidential Print** function\* requires the user to enter in a PIN (personal identification number) at the machine before printing can begin.

\* U models require MX-NBX3



### Auditing Mode

Auditing modes can be set individually for each function (copy, print, scan, fax, document filing), so you can keep track of and control the amount of use by employee or department. Limitations can be set for each account and each function.

### User Authentication for Network Scanning

To prevent unauthorised use of network scanning, the MX-M450/M350 series supports user authentication, which requires users to log in to the machine before performing any network scanning operations. Four types of user authentication methods are provided (Simple, Digest-MD5, NTLM, and Kerberos).



### Secure Sockets Layer

A newly introduced SSL\*1 (secure sockets layer) enables the encryption of data communications to prevent data leakage through the network when printing via IPP, browsing secure Web pages (HTTPS) or communicating via e-mail (SMTP\*2 and POP3\*2) or FTP (FTPS\*2).

\*1: U models require MX-NBX2 or MX-NBX3

\*2: Available at a later date

### IPv6 and IPsec Support

The MX-M450/M350 series supports IPv6\*, the next-generation Internet protocol. An obligatory part of IPv6 is IPsec\* (IP Security), a set of protocols for securing Internet protocol (IP) communications. IPsec encrypts and authenticates traffic between specified parties, giving IPsec-compatible products an extremely high level of network security.

\* U models require MX-NBX2 or MX-NBX3; IPsec available at a later date

# ENVIRONMENT & USER-FRIENDLY



## 8.9-Inch LCD Panel

The MX-M450/M350 series' logically designed control panel features a wide, clear **touch-screen LCD** with easy-to-follow guidance. For example, when adjusting the edge/centre erase function or, in the event of a paper jam, the LCD displays step-by-step instructions to guide you through the necessary procedures.

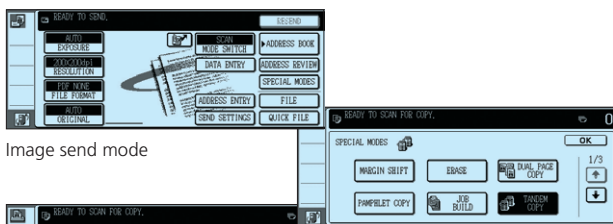


Image send mode

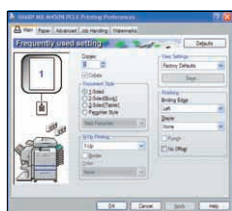
Special modes



Saddle stitch finishing

## Easy Printer Control

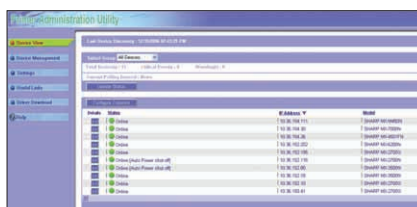
The printer driver gives you clear and easy control of print jobs thanks to a simple, easy-to-understand GUI (graphical user interface). Simply click the appropriate icons or check boxes and print your document just the way you want it.



Printer driver screen

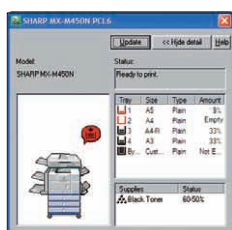
## Advanced Device Management

- Administrators can set up many features from either over the network or from the control panel of the MX-M450/M350 series, including address book control, document filing management and user control (accounting).
- Printer Administration Utility** makes printer networks easier to manage by allowing network administrators to customise monitored items and view settings such as the IP address directly from their PC through a standard Web browser.



Web-based PAU 4.0

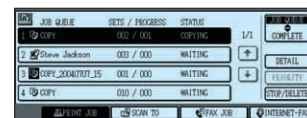
- If the MX-M450/M350 series is low on paper or toner, the **Printer Status Monitor** will alert you in the form of easy-to-understand graphics, allowing you to avoid problems before they arise.



Printer Status Monitor

## Job Status Screen

Whether printing or copying, the LCD displays a list of all jobs, showing you at a glance the jobs in progress and the position of your job in the queue.



Job status screen

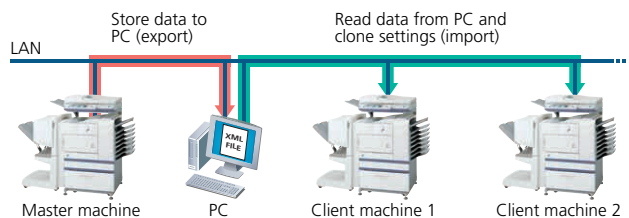
## Feedback Process Control

This unique system periodically monitors actual toner density and automatically makes adjustments to maintain image quality over a long period of time.

## Device Cloning

Machine settings can be copied\* conveniently to another MX-M450/M350 series via a Web browser, making it easy to clone machines in a networked environment.

\* U models require optional MX-NBX3



## Sharp OSA (Open Systems Architecture)

The MX-M450/M350 series has an open system architecture that allows third-party software developers to create custom applications\* that link the MFP to software programmes on a server or PC. The LCD control panel can thus be used to access and operate these software programmes.

\* Requires optional MX-AMX2 and/or MX-AMX3; U models also require MX-NBX3

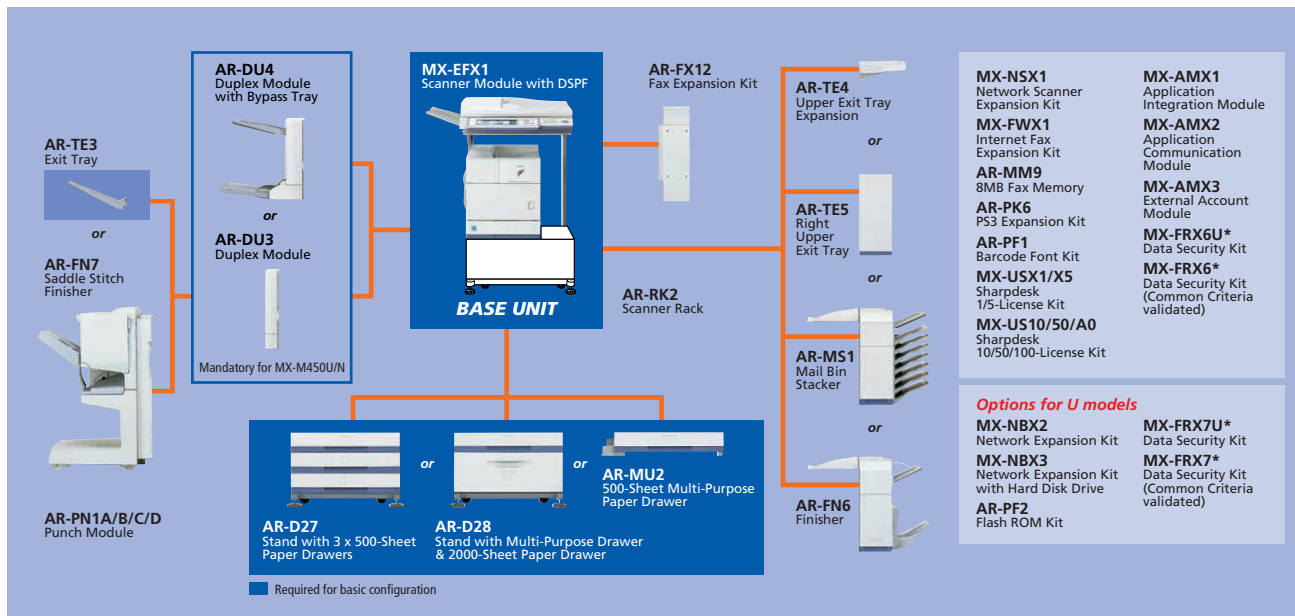
## Environmentally Conscious Design

- Conforming to the **Energy Star** programme, an international system identifying energy-efficient products, the MX-M450/M350 series has two levels of **energy-saving modes** to reduce or shut off electricity after a period of inactivity.
- In **support of the RoHS directive**, which restricts the use of hazardous substances, Sharp has fully eliminated harmful lead and chromium in all MX-M450/M350 series parts and materials.

# OPTIONS



## System Configuration



\* Available at a later date. Some options may not be available in some areas.

## Specifications for Options

### MX-EFX1 Scanner Module with DSPF

|                          |  |
|--------------------------|--|
| Acceptable original size | A3 to A5 (11" x 17" to 5 1/2" x 8 1/2")                      |
| Original capacity        | 50 sheets (A4, 80 g/m <sup>2</sup> ; 30 sheets B4 or larger) |
| Scanning speed (max. *)  | Two-sided: 60 pages/min., one-sided: 37 pages/min.           |
| Paper weight             | 50 to 128 g/m <sup>2</sup>                                   |

\* A4 (8 1/2" x 11") or smaller, in Standard mode.

### AR-DU3 Duplex Module

|               |   |
|---------------|---|
| Paper size    | A3 to A5R (11" x 17" to 5 1/2" x 8 1/2R") |
| Paper weight  | 60 to 105 g/m <sup>2</sup>                |
| Tray capacity | 100 sheets (A4, 80 g/m <sup>2</sup> )     |

### AR-DU4 Duplex Module with Bypass Tray

|               |                |   |
|---------------|----------------|---|
| Duplex module | Paper size     | A3 to A5R (11" x 17" to 5 1/2" x 8 1/2R") |
|               | Paper weight   | 60 to 105 g/m <sup>2</sup>                |
| Bypass tray   | Tray capacity  | 100 sheets (A4, 80 g/m <sup>2</sup> )     |
|               | Paper size     | A3 to A5R (11" x 17" to 5 1/2" x 8 1/2R") |
|               | Paper weight   | 52 to 205 g/m <sup>2</sup>                |
|               | Paper capacity | 100 sheets (A4, 80 g/m <sup>2</sup> )     |

### AR-FN7 Saddle Stitch Finisher

|                             |   |
|-----------------------------|---|
| Offset tray capacity        | 1,000 sheets (A4, 80 g/m <sup>2</sup> )             |
| Saddle stitch tray capacity | 100 sheets  |
| Paper size                  | A3 to A5R (11" x 17" to 5 1/2" x 8 1/2R")           |
| Paper size for stapling     | A3 to B5, 8 1/2" x 13" (11" x 17" to 8 1/2" x 11"R) |
| Stapling capacity           | Max. 50 sheets                                      |
| Staple position             | 3 locations (front, rear, or both)                  |

### Punch Modules for the AR-FN7

| Model name*     | AR-PN1A                    | AR-PN1B | AR-PN1C | AR-PN1D** |
|-----------------|----------------------------|---------|---------|-----------|
| Number of holes | 2                          | 2 or 3  | 4       | 4         |
| Paper weight    | 60 to 256 g/m <sup>2</sup> |         |         |           |

\* Multiple punch modules cannot be installed at the same time. Some models may not be available in some regions.  
\*\* Two or three holes can be punched depending on paper size.

### AR-FN6 Finisher

|             |                         |   |
|-------------|-------------------------|---|
| Offset tray | Paper capacity          | 750 sheets (A4, 80 g/m <sup>2</sup> )       |
|             | Paper size              | A4 to B5 (8 1/2" x 11" to 7 1/4" x 10 1/2") |
|             | Paper size for stapling | A4, B5 (8 1/2" x 11")                       |
|             | Stapling capacity       | Max. 30 sheets                              |
|             | Staple position         | 3 locations (front, rear, or both)          |

### AR-MS1 Mail Bin Stacker

|                 |                                  |  |
|-----------------|----------------------------------|--|
| Number of trays | One top tray and seven mail bins |  |
| Tray capacity   | Top tray                         | 250 sheets (A4, 80 g/m <sup>2</sup> )      |
|                 | Mail bins                        | 100 sheets each (A4, 80 g/m <sup>2</sup> ) |

### AR-D27 Stand with 3 x 500-Sheet Paper Drawers

|                    |                |   |
|--------------------|----------------|---|
| Upper tray         | Paper size     | A3 to A5R (11" x 17" to 5 1/2" x 8 1/2R"), envelope (COM-10, Monarch, DL, C5, ISO B5) |
|                    | Paper capacity | 500 sheets, 40 envelopes  |
| Middle/ lower tray | Paper size     | A3 to B5R (11" x 17" to 7 1/4" x 10 1/2R")  |
|                    | Paper capacity | 500 sheets each   |

### AR-D28 Stand with Multi-Purpose Drawer & 2000-Sheet Paper Drawer

|            |                |   |
|------------|----------------|---|
| Upper tray | Paper size     | A3 to A5R (11" x 17" to 5 1/2" x 8 1/2R"), envelope (COM-10, Monarch, DL, C5, ISO B5) |
|            | Paper capacity | 500 sheets, 40 envelopes  |
| Lower tray | Paper size     | A4 (8 1/2" x 11")   |
|            | Paper capacity | 2000 sheets (800 + 1200 sheets)   |

### AR-FX12 Fax Expansion Kit

|                        |                         |
|------------------------|-------------------------|
| Compression method     | JBIG/MMR/MR/MH          |
| Communication protocol | Super G3/G3             |
| Modem speed            | 33,600 bps to 2,400 bps |

## Sharpdesk 3.2 System Requirements

|                   |   |
|-------------------|---|
| CPU               | Pentium 500MHz processor or better (750MHz or better for Windows® XP)   |
| Memory            | 256MB or more (512MB or more recommended)   |
| Hard disk         | 300MB or more available space (including sample image files and help files)   |
| Monitor           | SVGA resolution or better and capable of displaying more than 256 colours (True Color recommended)                      |
| Supported OS*     | Windows® 98 Second Edition, Windows® Me, Windows® 2000 Professional, Windows® XP Professional, Windows® XP Home Edition |
| Network protocols | TCP/IP (using Network Scanner Tool)   |

\* System requirements for Windows Vista™ to be announced at a later date

## SPECIFICATIONS (tentative)

| General                               |  |
|---------------------------------------|--|
| Type                                  | Console  |
| Engine speed*1                        | Max. 45/35 cpm/ppm   |
| Paper size                            | Max. A3 (11" x 17"), min. A5R (5 1/2" x 8 1/2R")   |
| Paper capacity (80 g/m <sup>2</sup> ) | Standard: 500 sheets, max. 3,100 sheets  |
| Warm-up time*2                        | Less than 80 sec.  |
| Memory                                | Standard: 128MB, max. 384MB<br>40GB HDD*3  |
| Power requirements                    | Rated local AC voltage ±10%, 50/60 Hz  |
| Power consumption (max.)              | 1.85 kW (220 to 240V), 1.44 kW (100 to 127V)   |
| Dimensions (W x D x H)                |  |
| MX-M450U/N*4                          | 1,018 x 665 x 1,127 mm (40 5/64" x 26 3/16" x 44 25/64")   |
| MX-M350U/N*5                          | 970 x 665 x 1,127 mm (38 3/16" x 26 3/16" x 44 25/64")   |
| Weight                                |  |
| MX-M450U/N*4                          | Approx. 107 kg (235.9 lbs.)  |
| MX-M350U/N*5                          | Approx. 102 kg (224.9 lbs.)  |
| Features*6                            | Card shot, edge/centre erase, job build, pre-heat/auto power shut-off modes, user control (500 accounts), document filing, toner save mode |

| Copier              |  |
|---------------------|--|
| Original paper size | Max. A3 (11" x 17")  |
| First copy time*7   | 4.4/4.9 sec. (document glass), 5.3/6.0 sec. (DSPF)   |
| Continuous copy     | Max. 999 copies  |
| Resolution          | Scan: 600 x 600 dpi, 600 x 300 dpi<br>Print: 600 x 600 dpi   |
| Gradation           | Scan: 256 levels      Print: 2 levels  |
| Zoom range          | 25 to 400% (25 to 200% using DSPF) in 1% increments  |
| Preset copy ratios  | Metric: 10 ratios (5R/5E), inch: 8 ratios (4R/4E)  |
| Features*6          | Auto paper selection (mixed size feeding), auto magnification selection, paper type selection, auto tray switching, rotation copy, electronic sorting, network tandem copy, book copy, margin shift, dual page copy, multi-shot (4-in-1, 2-in-1), cover/transparency insertion, pamphlet copy, rotation sort*8, 2-sided copy orientation change, XY zoom, B/W reverse*8, mirror image, duplex copy, reserved copy, 10 job programmes, irregular original/paper size input, stamps (date, page number, text, stamp) |

| Network Scanner (optional MX-NSX1 [and MX-NBX2 or NBX3 for U models] required) |  |
|--|--|
| Compatibility  | TWAIN compliant (push put method)  |
| Resolution   | 200, 300, 400, 600 dpi   |
| File formats   | TIFF, TIFF-FX (TIFF-F), PDF, linearised PDF  |
| Scanner utilities  | Sharpdesk  |
| Scan destinations  | Scan to e-mail, desktop, FTP server, network folder (SMB), HDD   |
| Features*6   | Internet fax*9, PC-Internet fax transmission*9, LDAP support, direct entry (address, subject, message), 999 one-touch dials*10, 500 group dials*11, 8 job programmes, broadcasting, long original scanning (max. 800 mm) |

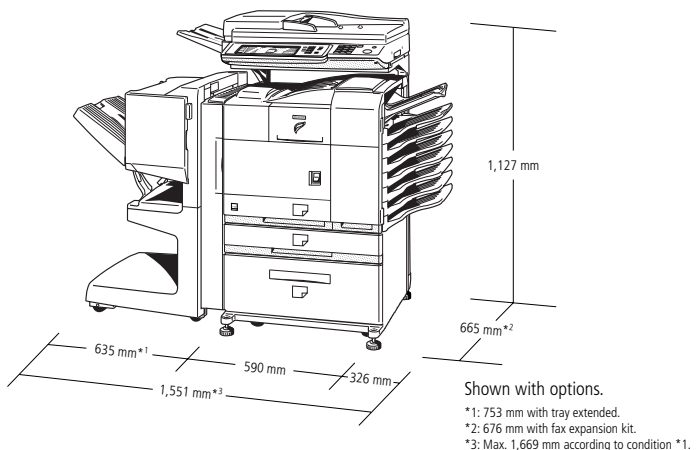
\* 1 : Copy mode: When copying same document continuously on portrait A4 (8 1/2" x 11") plain paper in non-offset mode. Print mode: When printing same document continuously on portrait A4 (8 1/2" x 11") plain paper in non-offset mode, excluding processing time.  
\* 2 : At rated voltage, 25°C (73.4°F), 65% RH.  
\* 3 : Option for U models. HDD capacity depends on procurement and sourcing status.  
\* 4 : Dimensions and weight include DSPF, scanner rack, 3 x 500-sheet paper drawer, duplex module, exit tray, and upper exit tray expansion.  
\* 5 : Dimensions and weight include DSPF, scanner rack, 3 x 500-sheet paper drawer, and upper exit tray expansion.  
\* 6 : Some features require option(s).  
\* 7 : Portrait feeding of A4 (8 1/2" x 11") sheets from main unit's 1st paper tray, polygon motor running.  
\* 8 : Not available in some regions. \* 9 : Optional MX-FWX1 required as an add-on for MX-NSX1. Max. resolution 400 dpi.  
\* 10 : U models: standard 500, max. 999 with MX-NBX3. \* 11 : U models: standard 300, max. 500 with MX-NBX3.  
\* 12 : Measured using Sharp's standard chart (A4 with 6% coverage). The Quick File Folder shares the HDD with the Job Build function. \* 13 : Optional MX-NSX1 required. \* 14 : Optional AR-FX12 required.  
\* 15 : Optional AR-PK6 required for Mac OS and EtherTalk. Windows Vista and IPsec available at a later date.  
\* 16 : Optional AR-PK6 required. \* 17 : Some features are not available according to the printer driver used.  
\* 18 : Based on Sharp's standard chart with approx. 700 characters (A4 or 8 1/2" x 11" portrait) at standard resolution in Super G3 mode, 33,600 bps, JBIG compression. \* 19 : For Windows environments only.

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| Document Filing (optional MX-NBX3 required for U models) |   |
|--|---|
| Document filing capacity                                 | 16GB<br>Main and custom folders: 20,000 pages*12 or 3,000 files<br>Quick file folder: 10,000 pages*12 or 1,000 files<br>Copy, print, scan*13, fax transmission*14 |
| Stored jobs  | Quick file folder, main folder, custom folder (max. 500 folders)  |
| Storage folders  | Quick file folder, main folder, custom folder (max. 500 folders)  |
| Confidential storage                                     | Password protection for main and custom folders   |

| Network Printer (optional MX-NBX2 or NBX3 required for U models) |  |
|--|--|
| Resolution   | 600 x 600 dpi, 600 x 1,200 dpi equivalent with smoothing   |
| Interface  | USB 2.0, 10Base-T/100Base-TX   |
| Supported OS*15  | Windows NT® 4.0 SP5 or later, Windows Server® 2003, Windows® 98/Me/2000/XP, Windows Vista™, Mac OS 9.0 to 9.2.2, Mac OS X 10.1.5, 10.2.8, 10.3.9, 10.4 to 10.4.8   |
| Network protocols*15   | TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), NetBEUI, EtherTalk (AppleTalk)   |
| Printing protocols   | LPR, Raw TCP (port 9100), POP3 (e-mail printing), HTTP, Novell Printserver application with NDS and Bindery, FTP for downloading print files, EtherTalk printing, IPP<br>Standard: PCL 6/5e      Option*16: PS3 emulation<br>80 fonts for PCL, 136 fonts for PS3 emulation*16<br>Network tandem print, RIP Once/Print Many, direct PDF/TIFF printing, carbon copy print, duplex print, font/form download, pamphlet style, job retention (print hold, proof print, confidential print), binding edge, printer administration utility and status monitor, N-up (2/4/6/8/9/16), IP/MAC address filtering, port/protocol management, form overlay, paper/output tray selection, cover/chapter insertion, offset output, transparency interleave, fit to page, watermarks, auto configuration, barcode font compatibility, SSL and IPsec support |
| PDL emulation  | Standard: PCL 6/5e      Option*16: PS3 emulation   |
| Available fonts  | 80 fonts for PCL, 136 fonts for PS3 emulation*16   |
| Features*6 *17   | Network tandem print, RIP Once/Print Many, direct PDF/TIFF printing, carbon copy print, duplex print, font/form download, pamphlet style, job retention (print hold, proof print, confidential print), binding edge, printer administration utility and status monitor, N-up (2/4/6/8/9/16), IP/MAC address filtering, port/protocol management, form overlay, paper/output tray selection, cover/chapter insertion, offset output, transparency interleave, fit to page, watermarks, auto configuration, barcode font compatibility, SSL and IPsec support  |

| Facsimile (optional AR-FX12 required) |   |
|---------------------------------------|---|
| Compression method                    | MH/MR/MMR/JBIG  |
| Communication protocol                | Super G3/G3   |
| Transmission time                     | Less than 3 seconds*18  |
| Modem speed                           | 33,600 bps to 2,400 bps with automatic fallback   |
| Transmission resolution               | From Standard (203.2 x 97.8 dpi) to Super Fine (406.4 x 391 dpi)  |
| Recording width                       | A3 to A5 (11" x 17" to 5 1/2" x 8 1/2")   |
| Memory                                | Standard 2MB, expandable to 10MB  |
| Grey scale levels                     | Equivalent to 256 levels  |
| Features*6                            | Duplex transmission/reception, quick on-line transmission, error correction mode, 999 one-touch dials*10, 500 group dials*11, F-Code compatibility (confidential, relay broadcast), LDAP support, 8 job programmes, broadcasting number registration, polling, memory transmission/reception, auto reduction (transmission/reception), rotation transmission/reception, print actual size, 2-in-1 transmission, long original transmission (max. 800 mm), PC-Fax transmission*19, timer transmission, paperless faxing with inbound routing to e-mail, activity report, anti-junk fax, dual page scan |



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