SHARP

MX-3114N
MX-2614N

Digital Full Colour Multifunctional System

Get Security and Full Colour from This Compact, Document-Savvy Performer

40th ANNIVERSARY
SHARP
DOCUMENT BUSINESS
1972 - 2012

100th ANNIVERSARY

In 2012, Sharp is celebrating the 100th anniversary of its founding and the 40th anniversary of its document systems business.

ENERGY STAR

OSA
Sharp Open Systems Architecture

| COPY | NETWORK PRINT | NETWORK SCAN | SHARPDESK | FAX OPTION |

Better Document Performance, Better Business

With speed for added productivity, full colour for enhanced communication, and built-in security features for total peace of mind, the MX-3114N/2614N is a must-have for any office looking to build its business.

This full-colour A3 solution packs the four-in-one convenience of fast, high-quality copying and network printing, handy network scanning, and a B/W fax option into one energy and space saving MFD. For operational efficiency, there's a high-speed 100-sheet Reversing Single Pass Feeder, an optional 500 + 2,000-sheet large-capacity paper tray, and the Sharp OSA (Open Systems Architecture) development platform. To safeguard office communications, standard equipped security functions* provide encrypting/erasing of data on the HDD, and the Data Security Kit option brings added protection.

* Contact a Sharp customer representative for details on activating these security functions.

Style, Function, and Ease of Use

The MX-3114N/2614N was designed to complement the décor of any workplace. A 7.0-inch WVGA touchscreen colour LCD with thumbnail displays and data file previews raises the bar on user friendliness and easy navigation. A retractable QWERTY keyboard option offers added convenience.

Thumbnails   Preview

Choice of Screen Style

The MX-3114N/2614N offers a choice of six LCD screen colours and a universal-design screen. While the default colour is black, users can easily select their preferred background style.

Breathtaking Image Quality

Sharp's second generation high grade toner and an improved imaging system combine to allow the full spectrum of colour reproduction in crisp, sharp detail. Additionally, the MX-3114N/2614N is so easy to operate, breathtakingly high quality images can be produced with just the touch of a finger.

2nd-Generation High Grade Toner

Auto Colour Mode

Original

Auto recognition

Text comes out crisp and clear, and unnecessary background colour is automatically removed
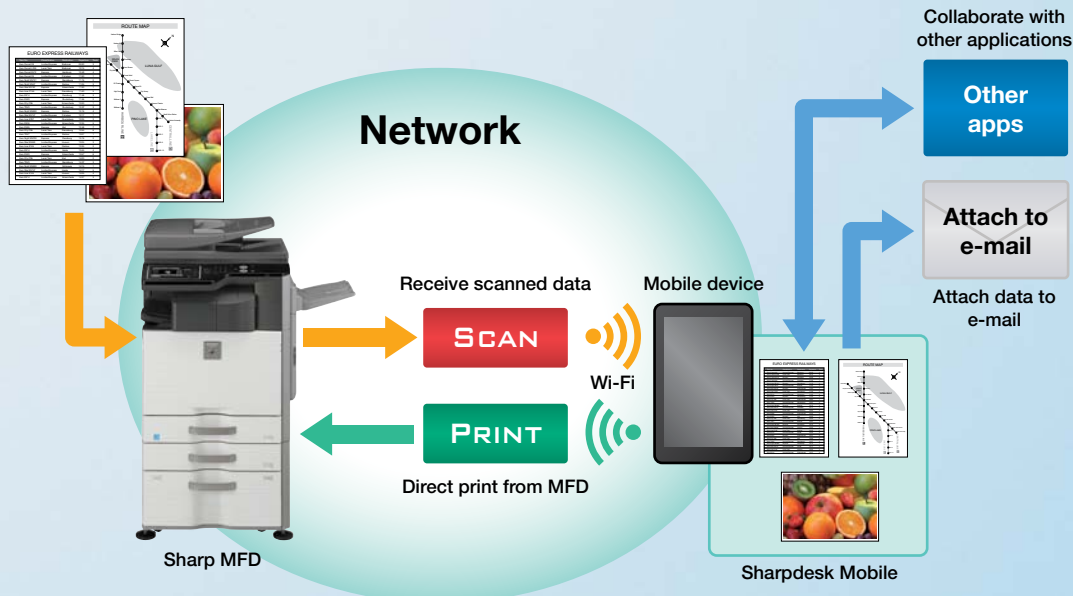

Copy

Sharpdesk Mobile—Keeping Pace with the Way You Work

As document demands increasingly move from out behind the desk to wherever business takes you, **Sharpdesk Mobile**[1] — an easy-access mobile print/scan application that connects Sharp MFDs to popular mobile devices via a wireless LAN connection can help you keep pace. Documents scanned on a Sharp MFD can be sent to a mobile device, such as an iPad, iPhone, or Android device[2], to preview and save. Documents saved on a mobile device can be printed out on a Sharp MFD, sent as e-mail attachments, or used in other applications. By combining the efficiency of Sharp MFDs and the convenience of mobile devices, Sharpdesk Mobile is adapting document usage to today's changing work styles. It's evolutionary!

[1]: Available at a later date; availability varies by country/region. This application can be downloaded for free from the Apple App Store for iPad and iPhone or from Google Play for Android devices.
[2]: Supported devices: iPhone 4, iPhone 4S, iPad, iPad 2, the new iPad (iOS 4.3, 5.0, and 5.1), and Android-based mobile devices running Android 2.3 (SD memory card required for some devices; screen resolution of 800 x 480 pixels or higher recommended).


Collaborate with other applications

Network

Receive scanned data

SCAN

Wi-Fi

Mobile device

PRINT

Direct print from MFD

Sharp MFD

Other apps

Attach to e-mail

Attach data to e-mail

Sharpdesk Mobile

COPYING & NETWORK PRINTING

PRODUCTIVE

Super-Efficient Colour and B/W Output

The tandem printing engine with four in-line drums helps the MX-3114N/2614N deliver a fast output of **31/26 cpm/ppm*** in full colour and in B/W. The first copy comes out in just **7.9/8.1 seconds** in full colour and **5.8/5.9 seconds** in B/W. What's more, its short, straight paper path minimises misfeeds to save you paper and toner costs.

* A4, long-edge feeding

**31 CPM PPM** MX-3114N   **26 CPM PPM** MX-2614N
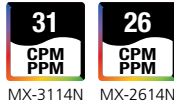
Built-In Duplex Module

The MX-3114N/2614N can make **two-sided copies and printouts** using its built-in stackless duplex module, effectively reducing paper costs as well as saving filing space. Duplex copying is even more effective when the duplex module is used together with the standard-equipped **100-sheet RSPF** (reversing single pass feeder), which efficiently feeds in one or two-sided originals and can also simultaneously scan paper of different sizes.

Network Tandem Function

When two MX-3114N/2614Ns are connected to the same office network, you can use both simultaneously to double copying/printing output to up to **62/52 cpm/ppm**. Large-volume jobs can be completed with ease, enabling you to meet tight deadlines.

Job Build for Large-Volume Scanning

The MX-3114N/2614N easily handles large-volume copy jobs exceeding the RSPF's 100 sheet*[1] capacity. For example, a 270-sheet original can be scanned as batches of 100 + 100 + 70 sheets and automatically stored on the MX-3114N/2614N's hard disk*[2]. Users can then print the entire document in a single run.

*1: A4, 80 g/m²
*2: The number of pages that can be stored for the Job Build function depends on the machine's HDD capacity and other conditions.

Automated Finishing

The MX-3114N/2614N automates time-consuming finishing tasks and makes it easy to create professional-looking booklets. For a consistent, polished look, the **chapter divide** function prints documents so that all chapters begin on odd-numbered pages or all begin on even-numbered pages. A space-efficient **Finisher** is available for jobs that require sorting and stapling. An optional **Punch Module** allows you to punch holes in documents for easy filing.

Job Finishing Options

Stapling   Hole punching
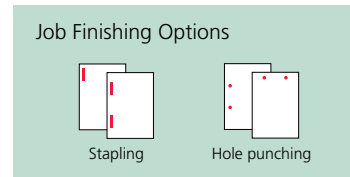
Extra Paper Capacity

For high-volume work, the MX-3114N/2614N can accommodate an optional stand with 500 + 2,000-sheet paper drawers for a total capacity of **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, allowing you to do extra-large volume jobs without worry.

Long-Paper (Banner) Printing*

The optional **Long Paper Feeding Tray** accommodates extra-long paper up to **1,200 mm** expanding the range of print products to include panoramic pictures, large display-window ads, banner signs, and more.

* Contact a Sharp customer representative for details on using this function.

Proof Copying or Printing

To prevent the waste of large-volume misprints, the MX-3114N/2614N lets users output only the first set to check the content, adjust settings if necessary, and then initiate output of the rest of the job from the LCD control panel.

NETWORK-READY

Supports Most Office Environments

- The MX-3114N/2614N works with the latest and most commonly used versions of Windows®, Windows Server®, and Mac operating systems and network protocols including **IPv6**—even in mixed OS environments. You get fast, powerful network printing via the 1000Base-T **Gigabit Ethernet** standard.
- The MX-3114N/2614N supports the **PCL6** printer language. For compatibility with **PostScript 3**, the MX-PK11 PS3 Expansion Kit is available.

Ethernet (10Base-T/100Base-TX/1000Base-T)

Windows®

Macintosh

Print

Windows Server®

3
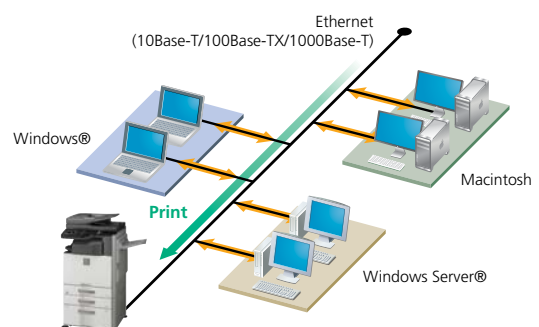
SUPERB IMAGE QUALITY

Improved Imaging System

Sharp thoroughly revamped its imaging process for the MX-3114N/2614N; now a high-performance processor, a new developer, and the **second generation high grade toner** combine to provide breathtaking image quality. The new toner expands the colour reproducibility range for a more natural rendering of clear blue skies, emerald green oceans, and other colour images. The smaller particle size of the toner and the developer allows for reduced graininess and clear reproduction of fine lines, fine text, and halftone colours.
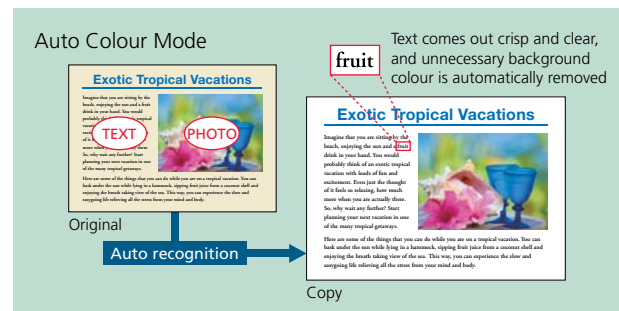
Crisp, Clear Text and Images

Employing digital smoothing technology enhances the print resolution to the equivalent of **9,600 x 600 dpi** for incredibly smooth reproduction of fine lines. Fine-grained photographs, detailed illustrations and graphs, and small text come out crisp and clear.

Easy, High-Quality Copying

Built to deliver automated, high-quality copying, the MX-3114N/2614N can reproduce maps with crisp, clear text and can remove unnecessary background colour from newspaper and magazine copies. Here's how it works: **Auto Colour Mode** analyses the contents of each page to distinguish between different components, such as photos and text, and then selects the appropriate copy mode for that page. **Auto Colour Selection** automatically determines whether a page is colour or B/W and then copies that page accordingly. **Auto Exposure** automatically removes unnecessary background colour for clearer output.

Auto Colour Mode

Text comes out crisp and clear, and unnecessary background colour is automatically removed

Exotic Tropical Vacations

TEXT   PHOTO

fruit

Exotic Tropical Vacations

Original

Auto recognition

Copy

VERSATILE

USB Memory Direct Print*

One of the two USB ports on the MX-3114N/2614N is located at the front of the MFD beneath the control panel. It comes in handy when printing data directly from USB memory devices—an indispensable function for users who are in a hurry or who want quick machine access without a PC.

* Direct PDF printing requires optional MX-PK11. Direct XPS printing requires optional MX-PUX1 and 2GB of extra memory.

Versatile Paper Handling

The MX-3114N/2614N accommodates a wide range of paper sizes, from **A5R** to **A3 wide**. You can do A3 **full-bleed printing** onto **A3-wide** paper, without loss of image area. The MX-3114N/2614N can handle heavy paper stock up to **256 g/m²**, overhead transparencies, and other types of paper, further expanding the range of printing applications.

Image Editing Functions

The MX-3114N/2614N includes colourful editing functions made possible by digital technology.

- **Photo Repeat** places multiple copies of an image onto a single sheet.
- **Mirror Image** makes a reverse image of the original.
- **XY Zoom** adjusts the horizontal and vertical ratios independently.
- **B/W Reverse** reverses the black and white of an image.

Please see specifications for a list of available convenient functions.

Other Key Features

Copy & Print
- **Watermark** prints a user-selected watermark, such as "Urgent," on each page to indicate the status of the document.
- **Tab Copy / Tab Print** can copy or print directly onto tabs on document separators and insert them into assigned positions.
- **Multi-Shot** copying and **N-up** printing
- **Pamphlet Style** copying/printing
- **Multi-Page Enlargement** copying/printing
- **Cover/transparency** insertion

Print
- **Direct Print***¹ allows **PDF***², **TIFF**, **JPEG**, or **XPS***³ files to be printed without using the printer driver or opening applications.
- **Carbon Copy Print** mode automatically outputs multiple printouts of the same data on plain and/or coloured paper; convenient for invoices and purchase orders.
- **Form Overlay** can store office document formatting such as letterheads and overlay contents in colour, eliminating the need for pre-printed paper.
- **Barcode font** compatibility*⁴

  *1: Direct printing may not support all PDF, TIFF, JPEG, and XPS formats. *2: Direct PDF printing requires optional MX-PK11. *3: Direct XPS printing requires optional MX-PUX1 and 2GB of extra memory. *4: Requires optional MX-PF10.

Copy
- **Book Copy** is convenient for compiling copies of a book or bound originals into pamphlet format.
- **Card Shot** enables one-touch copying of both sides of a card (credit cards, ID cards, etc.) onto a single page.
- **Colour Stamp** labels your copies with page numbers, the date or text such as "Urgent" in up to four different colours.
- **Mixed Size Original Copy** mode automatically distinguishes documents of mixed sizes* (such as A3/B4, B4/A4, etc.) fed through the RSPF and chooses the appropriate paper.

  * Some restrictions apply when combining paper sizes of different format series.

A3 Colour Network Scanning ⬛

The MX-3114N/2614N works as a **full-colour network scanner** and supports TIFF, PDF, encrypted PDF, XPS, JPEG, and PDF/A file formats. Converting any type of paper-based document, up to A3 in size, into an editable digital file is as easy as making a copy. Enhanced scan performance improves the legibility of extremely fine text and allows vivid colour reproduction in scanned documents. **Auto Colour Selection** chooses the right mode for scanning originals containing both colour and B/W pages (see page 4).

Quick Scanning ⬛ 📠

For both colour*[1] and B/W documents, the MX-3114N/2614N carries out scanning at **50 opm***[2] (originals per minute) and can complete large scan jobs with ease and efficiency.
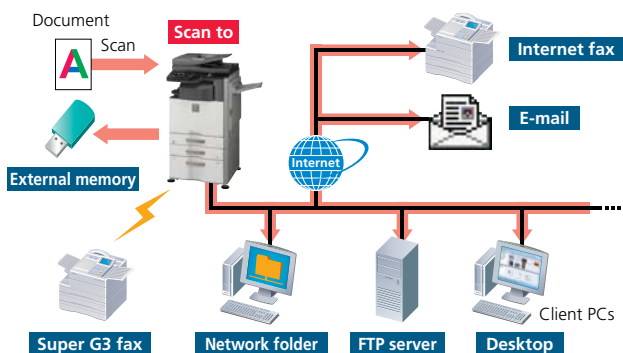
*1: Faxing is available in B/W only.   *2: Single-side scanning

Skip Blank Page Function ⬛

When scanning and sending a multi-page document, the MX-3114N/2614N automatically recognises and skips over any pages without content, reducing both data size and transmission time.

Multiple Distribution of Scanned Files ⬛ 📠

With the touch of a few on-screen buttons, you can choose different ways to distribute your scanned documents. **Scan to E-mail** sends documents as an e-mail attachment. **Scan to FTP Server** scans documents directly to an FTP server for storage. **Scan to Desktop** sends scanned documents directly to your PC desktop. **Scan to Network Folder (SMB)** sends files to a shared folder on a networked Windows PC. **Scan to USB Memory** scans documents directly to USB memory devices. **Scan to Fax** enables conventional faxing or Internet faxing.

Document — Scan — A — Scan to — Internet fax — E-mail — Internet — External memory — Super G3 fax — Network folder — FTP server — Desktop — Client PCs

LDAP Support ⬛ 📠

Built-in LDAP (lightweight directory access protocol) support eliminates the need to enter or register full addresses. By entering the first few letters of the recipient's name, the MX-3114N/2614N displays a list of possible matches from your company's LDAP server. Selected addresses can be stored to the MX-3114N/2614N's address book.

High-Speed Faxing 📠

The optional MX-FX11 Fax Expansion Kit turns the MX-3114N/2614N into a 33.6 Kbps **Super G3 fax** machine. Quick On-Line Transmission initiates dialling and transmitting as soon as a page is scanned into memory. JBIG compression technology lets the MX-3114N/2614N send an A4 size page in under three seconds*. Also using the 100-sheet RSPF gives faxing efficiency a further boost. Incoming faxes are also handled with automated ease. The number of copies to be made can be specified on the LCD control panel's Fax Output setting, and optional finishing options can be installed for automatic stapling of those copies.

* Based on Sharp's standard chart with approximately 700 characters (A4 long-edge feeding) at standard resolution.

PC-Fax/PC-Internet Fax 📠

Directly send a document created on your PC to a recipient's fax machine via a phone line or the Internet without printing to paper. Save time and paper costs while retaining original document quality.

Note: PC-Internet Fax requires optional MX-FWX1; PC-Fax requires MX-FX11.

Internet Fax 📠

Economically send and receive faxes to and from other ITU-T T-37-compliant Internet fax machines via the Internet. The MX-3114N/2614N supports **Direct SMTP**; outgoing Internet faxes do not go through your mail server, making transmission faster and cheaper.

Note: Requires optional MX-FWX1.

Paperless Faxing with Inbound Routing 📠

Paperless faxing with inbound routing lets you check incoming faxes via e-mail before printing. It can also forward incoming faxes to another fax/Internet fax machine, an FTP server, a network folder (SMB), or a PC desktop. Files can be saved in either PDF or TIFF (single/multi).

Other Key Features

Scan & Fax

- **One-touch auto dial keys** register up to **1,000** numbers for frequently used destinations
- **Broadcast transmission** to up to 500 destinations
- **Programme keys** (up to 48 keys) are available to set up frequently used transmissions for instant recall
- **Easy text entry*** lets you enter addresses, file names, subject titles or messages from the LCD control panel
  * Only addresses can be entered for faxing.
- **Mixed size original scanning** automatically distinguishes documents of mixed sizes fed through the RSPF

Fax

- **Duplex transmission/reception** sends and prints out two-sided documents
- **SD memory card backup** ensures documents remain safely backed up in memory, even in the event of a power failure
- **Rotation transmission/reception** rotates incoming and outgoing faxes to match the direction of the printing paper
- **Fax destination confirmation** allows users to reconfirm fax numbers before sending to prevent transmission errors

SECURITY

Powerful Multi-Layered Security

Designed to protect your business assets and bring you peace of mind, Sharp's security solutions employ multiple levels of security functions—both standard equipped and optional—covering a broad range of network and data security needs. The MX-3114N/2614N safeguards sensitive data with powerful, enhanced security functions that eliminate the worry of unauthorised use and guarantee greater protection for your confidential information.

STANDARD

Data Encryption and Overwriting

Digital copier/printers and MFDs can retain hundreds of pages of confidential information from previous jobs on their hard disks or internal memory. To safeguard such information from unauthorised access, the MX-3114N/2614N automatically **encrypts** document data stored on the hard disk and in the address book. Standard-equipped security features also provide up to seven automatic **overwrites** of data generated for each job, **password protection** of Document Filing data, and more.

Note: Contact a Sharp customer representative for details on activating these security functions.
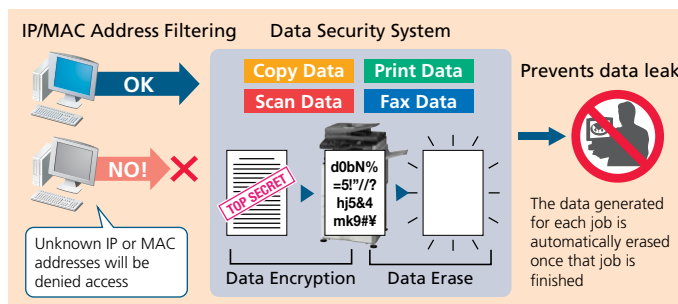
Secure Network Access

The **IP/MAC address filtering** function provides highly secure operation by restricting access to the MFDs on your office network. Only PCs that have either their IP address or MAC (media access control) address registered are allowed to use the MFDs. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use. The MX-3114N/2614N also supports the **IEEE 802.1X** standard for port-based network access control, which blocks all access from unauthorised devices.

User Authentication

The MX-3114N/2614N prevents unauthorised use by requiring **passwords** for machine access. This safeguarded solution can register up to 1,000 users in **three access levels** as Administrator, User, or Guest and can designate to which function user authentication applies. The MX-3114N/2614N can, for example, be set to allow B/W copying by all users while restricting colour copying to designated users. Also the MX-3114N/2614N works with an **external Active Directory server** to extend user authentication to multiple MFDs and a greater number of users.

User authentication

Encrypted PDF with Password Protection

To prevent unauthorised viewing of confidential data, the MX-3114N/2614N enables scanned PDF data to be password protected and encrypted for transmission over the network. After transmission, viewers can gain access to the encrypted PDF only after re-entering the password.

Secure Sockets Layer

SSL (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 and POP3) or FTP (FTPS).

Scan to Me Function

Scan to Me lets a logged-in authorised user send scanned data to his/her own e-mail address simply by pressing the start button. This eliminates the need to manually enter or select the address, thereby preventing documents from being sent to the wrong address.

IPv6 and IPsec Support

The MX-3114N/2614N supports the **IPv6** 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.

Data Initialisation

The MX-3114N/2614N's initialisation function allows confidential information to be erased at the administrator's discretion via the MFD's system setting. Initialising an MFD when it's time to replace it prevents important resources, such as customer information and intellectual property, from leaking out and provides considerable peace of mind.

OPTION

Document Control Function

Document Control prevents unauthorised copying, scanning, faxing, and filing of confidential documents by embedding copy prevention data onto a document. When that data is detected, any unauthorised attempts to copy will be cancelled or will result in only blank-page output.
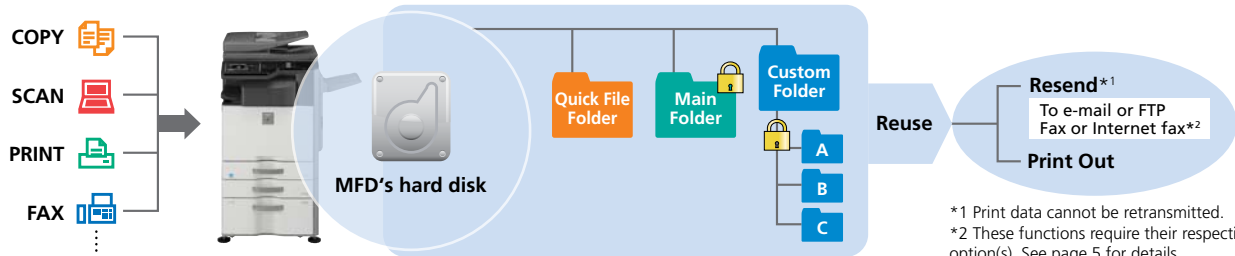
Note: Requires optional Data Security Kit. May not work for certain types of documents or paper.

Example: Unauthorised copying

Confidential document with copy prevention data | Unauthorised attempt to make a copy | Results in a blank page
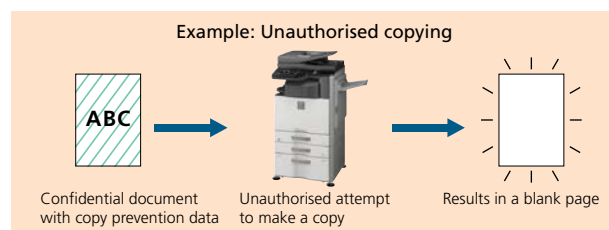
Document Management on the Hard Disk

You can save processed job data in designated folders on the MX-3114N/2614N's built-in 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.

COPY

SCAN

PRINT

FAX

MFD's hard disk

Quick File Folder

Main Folder

Custom Folder

A

B

C

Reuse

Resend[1]
To e-mail or FTP
Fax or Internet fax[2]

Print Out

[1] Print data cannot be retransmitted.
[2] These functions require their respective option(s). See page 5 for details.

Quick Filing

Up to **10,000 pages** or 1,000 files[1] that have been copied, printed, scanned, or faxed[2] can be stored by job in a Quick File Folder. You can easily reuse saved data without having to reload or rescan the original.

Advanced Filing Function

Up to **20,000 pages** or 3,000 files[1] that have been copied, printed, scanned, or faxed[2] can be stored by job on the hard disk in up to 1,000 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 for workgroup sharing and Custom Folder for enhanced-security archiving.

[1]: Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The storage capacity will be less for colour pages.
[2]: For fax and Internet fax jobs, only transmitted data (not received faxes) can be saved in the Document Filing function.

Easy Access to Stored Files

Documents stored on the hard disk can be quickly and easily searched and accessed from the control panel's LCD via thumbnail displays and file previews or through a Web browser.

Search results

Web access screen

Easy Sharing of Application Files

To facilitate file sharing across the office network, the MX-3114N/2614N provides 120GB of hard disk storage space for folders. Each folder can hold up to 500 files created with applications such as Word and Excel® and saved in their original format.
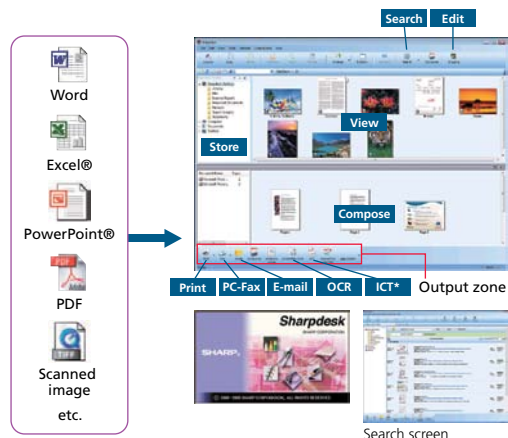
Note: Sharp recommends backing up data saved to the MFD's hard disk.

File creator

Saved

Retrieve

Other users

Document is saved to MFD in original file format

Stored on MFD's hard disk

User retrieves file from MFD

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

Word

Excel®

PowerPoint®

PDF

Scanned image

etc.

Search   Edit

View

Store

Compose

Print   PC-Fax   E-mail   OCR   ICT*   Output zone

Search screen

* Image Compression Tool for converting images into compact PDF files

Sharp OSA Network Scanner Tool

This client-based scan-to-desktop option is the ideal document management system for small workgroups or offices that don't have servers. Sharp OSA Network Scanner Tool provides centralised scan/print user profiles to give everyone in the office easy one-touch scanning to their PC from any networked MFD—without complicated settings. Scanned documents can be quickly and easily printed, filed, previewed, shared, and stored to save time and improve document workflow. Sharp OSA Network Scanner Tool automatically names PDF files based on scanned-document titles and can convert scanned documents into text with the OCR engine to create searchable PDF files.

Note: Requires optional MX-AMX2.

DEVICE MANAGEMENT

## Web-Based System Settings

Administrators can manage every important setting including user access and security as well as other controls and configurations through a standard Web browser right from their desktops.

Web-based device management

Network Utility Software

Sharp Remote Device Manager* (SRDM) gives administrators centralised, real time control of their networked MFDs through a standard Web browser, making device cloning, firmware updates, and everything else easier and more accessible.
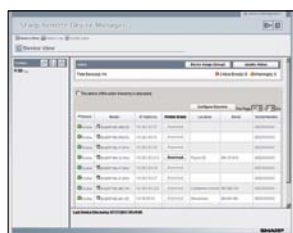
* Requires download from Sharp's Web site.

Web-based SRDM

Remote Diagnosis

The MX-3114N/2614N can be monitored remotely through a Web browser, letting administrators handle tasks before they become problems. When action or maintenance is required, the **E-Mail Status and Alert** function notifies administrators via timely e-mail alerts.

Remote Operation

The Remote Operation function lets you display the MFD's main control panel on your PC screen, allowing you to operate every major function directly from your desktop.* This function also enables the administrator to guide an MFD user through necessary procedures and allows remote MFD operation.

* Requires VNC application.

Device Cloning

Machine settings can be copied conveniently to another MX-3114N/2614N via a Web browser in XML format, making it easy to clone machines in a networked environment. With Device Cloning, the administrator no longer needs to set up individual machines one by one, thereby making his/her job a lot easier.


Web-based device cloning
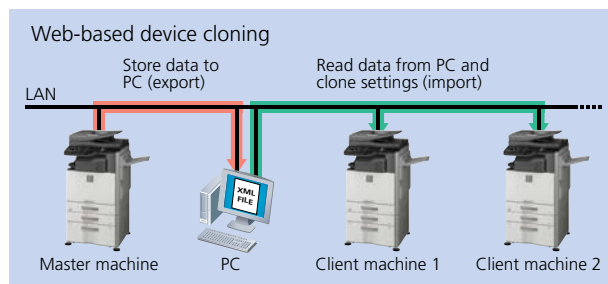
EXPANDABILITY

Sharp OSA (Open Systems Architecture)

Innovative Sharp OSA[1] technology allows you to interact with critical business and network applications right from the LCD control panel, offering a new realm of control and convenience. Since Sharp OSA utilises industry-standard network protocols, the MX-3114N/2614N can easily integrate with document management systems, enterprise resource planning software, workflow applications, and more. The latest version[2] of Sharp OSA can **reach beyond the firewall**, enabling extensive system construction and services over the Internet. Sharp OSA brings benefits such as reducing the costs associated with system implementation and management, as well as enabling data sharing across company branch offices or subsidiaries.

[1]: Requires optional MX-AMX2 and/or MX-AMX3.
[2]: Available at a later date.
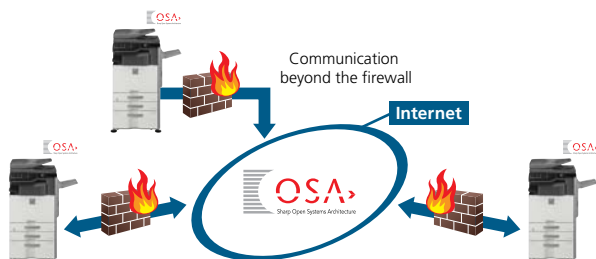
Sharpdesk Mobile

Sharpdesk Mobile[1] is a mobile print/scan application that combines the convenience of mobile devices and the efficiency of Sharp MFDs to make conducting business on the go easier than ever. Documents scanned on the MX-3114N/2614N can be sent to a mobile device, such as an iPad, iPhone, or Android device[2], to preview and save. Documents saved on a mobile device can be printed out on the MFD, sent as e-mail attachments, or used in other applications.

[1]: Available at a later date; availability varies by country/region. This application can be downloaded for free from the Apple App Store for iPad and iPhone or from Google Play for Android devices.
[2]: Supported devices: iPhone 4, iPhone 4S, iPad, iPad 2, the new iPad (iOS 4.3, 5.0, and 5.1), and Android-based mobile devices running Android 2.3 (SD memory card required for some devices; screen resolution of 800 x 480 pixels or higher recommended).
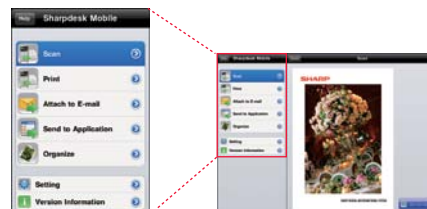

Top menu screen (image)　　　Preview of scanned data (image)

ENVIRONMENT-FRIENDLY

Outstanding Energy Efficiency

To reduce power consumption, Sharp has applied its advanced technologies across all areas of this MFD, including the hardware, software, electrical system, and supplies. As a result, the MX-3640N/3140N/2640N boasts a low consumption rate.

- Sharp's belt fusing system shortens the MX-3640N/3140N/2640N's warm-up time to **18 seconds**, contributing to reduced overall energy consumption.
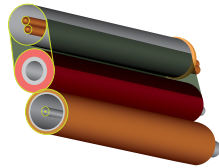
Sharp's belt fusing system

- Based on prior usage patterns, the MX-3640N/3140N/2640N automatically determines the optimal length of time to let elapse before going into **auto power shut-off mode**, helping reduce overall power consumption. Shortly before auto power shut-off mode begins, a message appears* on the LCD indicating that the MFD will soon shut down and giving users the option to continue operation.

  * Contact a Sharp customer representative to activate this pop-up message function.

- **Power ON/OFF Schedule** function automatically turns the MX-3640N/3140N/2640N on or off according to time schedules set by the administrator.

Power off	Power on	Off	On	Off

| 9:00 | 12:00 | 13:00 | | 17:00 |
| Start of day | Lunch break | | | End of day |
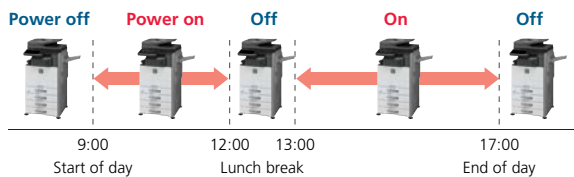
- Before a print*[1]/copy command is executed from the control panel, the **Eco Recommendation***[2] function offers suggestions on environmentally friendly settings, helping users achieve even greater eco-friendly operation.

  *1: Printing of Document Filing data and direct printing (FTP/SMB/USB).
  *2: Contact a Sharp customer representative for details on activating this function.

- **Eco Scan** function saves energy by keeping the fusing system shut down during jobs that don't require the use of the fusing system, such as Image Sending and Document Filing.

- The second-generation high-grade toner has a **lower melting point** than conventional toner, allowing fusing to be carried out with less energy. It also offers a significantly lower consumption rate than conventional toner.

- For further energy savings, energy-efficient **LED lamps** are employed in the scan unit in place of conventional xenon lamps. A new ASIC (application-specific integrated circuit) also helps the MX-3640N/3140N/2640N deliver excellent performance and energy efficiency.
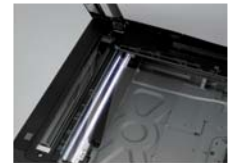
EXPANDABILITY

Sharp OSA* (Open Systems Architecture)

Innovative Sharp OSA technology allows you to interact with critical business and network applications right from the LCD control panel, offering a new realm of control and convenience. Since Sharp OSA utilises industry-standard network protocols, the MX-3640N/3140N/2640N can easily integrate with document management systems, enterprise resource planning software, workflow applications, and more. The latest version of Sharp OSA can **reach beyond the firewall**, enabling extensive system construction and services over the Internet. Sharp OSA brings benefits such as reducing the costs associated with system implementation and management, as well as enabling data sharing across company branch offices or subsidiaries—effectively enhancing total business efficiency.

* Requires optional MX-AMX2 and/or MX-AMX3.

Communication beyond the firewall
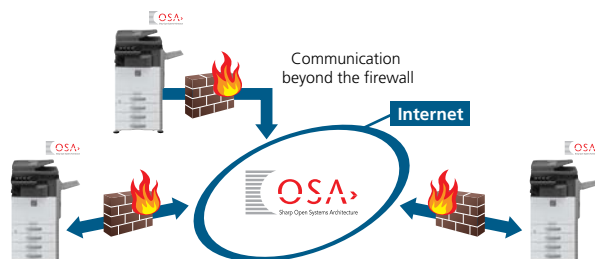
Internet

Direct Internet Access

The optional **Web Browsing Expansion Kit** gives you direct access to the Internet for easy browsing of Web sites on the colour touchscreen. With such quick access to information, brochures and user manuals in PDF format as well as maps and coupons can be printed out on the spot.

Sharpdesk Mobile

Sharpdesk Mobile is a mobile print/scan application that combines the convenience of mobile devices and the efficiency of Sharp MFDs to make conducting business on the go easier that ever. Documents scanned on a Sharp MFD can be sent to a mobile device running iOS or Android OS to preview and save. Documents saved on a mobile device can be printed out on the MFD, sent as e-mail attachments, or used in other applications.

Notes on Sharpdesk Mobile:
- This application can be downloaded for free from the Apple App Store for iPad and iPhone or from Google Play™ for Android devices.
- Supported devices: iPhone 4, iPhone 4S, iPad, iPad 2, and iPad (3rd generation) running iOS 4.3, 5.0, 5.1, or 6.0, and Android-based mobile devices running Android 2.3 or 4.0 (SD memory card required for some devices; recommended screen resolution of 800 x 480 pixels or higher).
- Availability varies by country/region. For details, see the Sharpdesk Mobile support Web site:
  http://sharp-world.com/products/copier/docu_solutions/mobile/sharpdesk_mobile/

OPTIONS

System Configuration

MX-KB11 N
Keyboard

MX-TR13 N
Exit Tray Unit

MX-LT10
Long Paper Feeding Tray

MX-FX11
Fax Expansion Kit

MX-LC11
Large-Capacity Tray (A4)

MX-FN17
Finisher

MX-FN10
Saddle Stitch Finisher

MX-RB10 N
Paper Pass Unit

BASE UNIT

MX-DE13
Stand with
2 x 500-Sheet
Paper Drawers

MX-DE14
Stand with
3 x 500-Sheet
Paper Drawers

MX-DE20
Stand with
500 + 2,000-sheet
Paper Drawers

MX-PN11A/B/C/D
Punch Module for MX-FN17

MX-PNX5A/B/C/D
Punch Module for MX-FN10

MX-PUX1
XPS Expansion Kit

MX-PF10
Barcode Font Kit

AR-SU1
Stamp Unit

MX-FWX1
Internet Fax Expansion Kit

MX-USX1/X5
Sharpdesk 1/5-License Kit

MX-US10/50/A0
Sharpdesk 10/50/100-License Kit

MX-UN01A/05A
Sharp OSA Network Scanner Tool
1/5-License Kit

MX-UN10A/50A
Sharp OSA Network Scanner Tool
10/50-License Kit

MX-UN1HA
Sharp OSA Network Scanner Tool
100-License Kit

MX-AMX1
Application Integration Module

MX-AMX2
Application Communication Module

MX-AMX3
External Account Module

MX-EB11
Enhanced Compression Kit

MX-EB12 N
Mirroring Kit

MX-AM10
Web Browsing Expansion Kit

MX-FR41U*
Data Security Kit

* Available at a later date.

Certain options may not be available in some areas.

Specifications for Options

MX-FN17 Finisher

Paper size	Non offset	A3W to A5R
	Offset/staple	A3 to B5
Paper capacity		500 sheets (A4 or smaller),
		250 sheets (B4 or larger)
Stapling capacity		50 sheets (A4 or smaller), 30 sheets (B4 or larger)
Staple position		3 locations (front, rear or both)

MX-FN10 Saddle Stitch Finisher

Paper size	Non offset	A3W to A5R
	Offset/staple	A3 to B5R
Paper capacity	Offset tray	1,000 sheets (A4 or smaller, except A5R),
		500 sheets (A5R, B4 or larger)
	Saddle stitch tray	10 sets of 11–15 sheets, 15 sets of 6–10 sheets,
		20 sets of 1–5 sheets
Stapling capacity		50 sheets (A4 or smaller), 25 sheets (B4 or larger)
Staple position		3 locations (front, rear or both)

Punch Modules

Model name	For the MX-FN17	MX-PN11A	MX-PN11B	MX-PN11C	MX-PN11D
	For the MX-FN10	MX-PNX5A	MX-PNX5B	MX-PNX5C	MX-PNX5D
Number of holes		2	2/3	4	4 (wide)
Paper weight			55 to 256 g/m² *		

* Guaranteed punchable weight is 55 to 128 g/m².

MX-FX11 Fax Expansion Kit

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

MX-DE13 Stand with 2 x 500-Sheet Paper Drawers

Paper size (upper and lower tray)	A3 to A5R
Paper capacity (upper and lower tray)	500 sheets each

MX-DE14 Stand with 3 x 500-Sheet Paper Drawers

Paper size (upper/middle/lower tray)	A3 to A5R
Paper capacity (upper/middle/lower tray)	500 sheets each

MX-DE20 Stand with 500 + 2,000-Sheet Paper Drawers

Paper size (upper tray)	A3 to A5R
(lower right/left tray)	A4
Paper capacity (upper tray)	500 sheets
(lower right tray)	850 sheets
(lower left tray)	1,150 sheets

MX-LT10 Long Paper Feeding Tray

Paper size	Max. 1,200 mm long
Paper capacity	1 sheet

MX-LC11 Large-Capacity Tray

Paper size	A4, B5
Paper capacity	3,500 sheets

Note: All specifications relating to paper capacity refer to 80 g/m² paper.

Note: When using Sharpdesk, Sharp OSA Network Scanner Tool, and Sharp OSA, please ask your Sharp representative about PC system requirements.

SPECIFICATIONS

General

Type	Desktop
Engine speed (colour & B/W)	Max. 31/26 cpm/ppm (A4, long-edge feeding)
Paper size	Max. A3 wide, min. A5R
Paper capacity	Standard: 600 sheets (500-sheet tray and 100-sheet multi-bypass tray)
(80 g/m²)	Maximum: 3,100 sheets
Paper weight	Tray: 60 g/m² to 209 g/m²
	Multi-bypass tray: 55 g/m² to 256 g/m²
Warm-up time*1	18 sec.
Memory	[Standard] Copy/print (shared): 3GB 320GB HDD*2
	[Option] Print: 2GB
Power requirements	230-240V AC, 50/60 Hz
Power consumption (max.)	1.84 kW
Dimensions (W x D x H)	608 x 642 x 834 mm
Weight (approx.)	76.2 kg
Features	Job build, document filing, user authentication (1,000 accounts), toner save mode, pre-heat/auto power shut-off modes, preview, thumbnail view*3

Copier

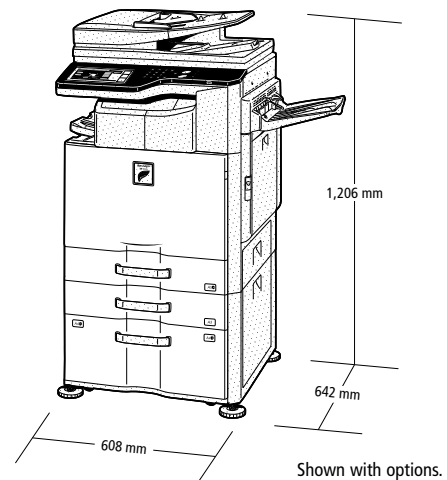|	
Original paper size	Max. A3
First copy time*4	[MX-3114N] Full colour: 7.9 sec. B/W: 5.8 sec.
	[MX-2614N] Full colour: 8.1 sec. B/W: 5.9 sec.
Continuous copy	Max. 999 copies
Resolution	Scan (colour): 600 x 600 dpi
	Scan (B/W): 600 x 600 dpi, 600 x 400 dpi, 600 x 300 dpi
	Print: 600 x 600 dpi,
	9,600 (equivalent) x 600 dpi (depending on print mode)
Gradation	Equivalent to 256 levels
Zoom range	25 to 400% (25 to 200% using RSPF) in 1% increments
Preset copy ratios	10 ratios (5R/5E)
Features	Auto paper selection (mixed/random 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/tab page insertion, pamphlet copy, 2-sided copy orientation change, XY zoom, B/W reverse, mirror image, duplex copy, job reservation, job programme, photo repeat, irregular original/paper size input, stamps (date, page number, text, stamp), multi-page enlargement, tab copy, centering, proof copy, auto colour mode, auto colour selection, auto calibration, watermarks, sharpness, card shot, original count, edge/centre/side erase

Network Scanner

Scan method	Push scan (via control panel), pull scan (TWAIN-compliant application)
Resolution	Push scan: 100, 200, 300, 400, 600 dpi
	Pull scan: 75, 100, 150, 200, 300, 400, 600 dpi
	50 to 9,600 dpi via user setting*5
File formats	TIFF, PDF, encrypted PDF, JPEG (colour only), XPS*6, PDF/A
Scanner utilities	Sharpdesk, Sharpdesk Mobile
Scan destinations	Scan to e-mail/desktop/FTP server/network folder (SMB)/USB memory
Features	Internet fax*7 (supports direct SMTP), PC-Internet fax transmission*7, auto colour mode, mixed size original scanning, LDAP support, direct entry (address, subject, message), 1,000 one-touch dials, 500 group dials, 48 job programmes, broadcasting, long original scanning (max. 1,000 mm)*8, auto colour selection, card shot, original count, edge/side erase, blank page skip

Document Filing

Document filing capacity	Main and custom folders: 20,000 pages*9 or 3,000 files
	Quick file folder: 10,000 pages*9 or 1,000 files
Stored jobs*10	Copy, print, scan, fax transmission
Storage folders	Quick file folder, main folder, custom folder (max. 1,000 folders)
Confidential storage	Password protection

Network Printer

Resolution	600 x 600 dpi, 9,600 (equivalent) x 600 dpi
Interface	USB 2.0, 10Base-T/100Base-TX/1000Base-T
Supported OS*11	Windows Server® 2003/2008, Windows® XP, Windows Vista®, Windows® 7, Mac OS X 10.4.11, 10.5 to 10.5.8, 10.6 to 10.6.8, 10.7 to 10.7.4
Network protocols*11	TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), 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
PDL (emulation)	Standard: PCL 6 emulation
	Option*12: PS3 emulation, XPS
Available fonts	80 fonts for PCL, 136 fonts for PS3 emulation
Features*10 *13	Network tandem print, RIP Once/Print Many, job retention (proof print, confidential print), direct PDF/TIFF/JPEG/XPS printing, long original print, carbon copy print, duplex print, font/form download, offset output, pamphlet style, IP/MAC address filtering, port/protocol management, binding edge, N-up (2/4/6/8/9/16), paper/output tray selection, cover/transparency insertion, fit to page, watermarks, form overlay, auto configuration, barcode font compatibility, tab print, poster print, margin shift, secure network communications (SSL and IPsec [LPD])

B/W Facsimile (optional MX-FX11 required)

Compression method	MH/MR/MMR/JBIG
Communication protocol	Super G3/G3
Transmission time	Less than 3 seconds*14
Modem speed	33,600 bps to 2,400 bps with automatic fallback
Transmission resolution	From Standard (203.2 x 97.8 dpi) to Ultra Fine (406.4 x 391 dpi)
Recording width	A3 to A5
Memory	1GB (built-in)
Grey scale levels	Equivalent to 256 levels
Features	Duplex transmission/reception, quick on-line transmission, error correction mode, 1,000 one-touch dials, 500 group dials, LDAP support, 48 job programmes, broadcasting number registration, F-Code compatibility (confidential, relay broadcast), polling, memory transmission/reception, auto reduction (transmission/reception), rotation transmission/reception, print actual size, 2-in-1 transmission, long original transmission (max. 1,000 mm), PC-Fax transmission, timer transmission, inbound routing to e-mail/FTP server/network folder (SMB)/PC desktop/fax/Internet fax, activity report, anti-junk fax, dual page scan, mixed size original scanning, card shot, edge/side erase, original count

*1: At rated voltage, 23°C. May vary depending on operating conditions and environment.
*2: HDD capacity depends on procurement and sourcing status. *3: Thumbnails of Document Filing data files and incoming faxes. *4: Long-edge feeding of A4 sheets from 1st paper tray, using document glass, without Auto Colour Selection and Auto Colour mode, MFD in fully ready condition. May vary depending on operating conditions and environment. *5: Resolutions higher than 600 dpi are interpolated. *6: To view XPS files on PCs not running Windows Vista, you must have the XPS Viewer application installed. *7: Optional MX-FWX1 required. *8: B/W documents only, scanned at under 400-dpi resolution. Max. 800 mm for Internet faxing or when scanning at 600 x 600-dpi resolution. *9: Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The storage capacity will be less for colour pages. *10: Some features require option(s).
*11: Optional MX-PK11 required for Mac OS and EtherTalk. *12: PS requires optional MX-PK11. XPS requires optional MX-PUX1 and 2GB memory. *13: Some features are not available according to the printer driver used. *14: Based on Sharp's standard chart with approx. 700 characters (A4, long-edge feeding) at standard resolution in Super G3 mode, 33,600 bps, JBIG compression.

- Design and specifications are subject to change without prior notice.
- Colour variations to products may occur due to printing.
- Some features require Optional items. Please consult with an authorised Sharp Reseller for details.
- All information and technical details are correct as at machine release date.
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1,206 mm
642 mm
608 mm

Shown with options.

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