Intuitively Better, Innovatively Sharp—Your Colour Document Hub for Outstanding Performance
Coccinellids are small insects, ranging from 1 mm to 10 mm (0.04 to 0.4 inches), and are commonly yellow, orange, or scarlet with small black spots on their wing covers, with black legs, head and antennae. A very large number of coccinellid species are mostly, or entirely, black, grey, or brown and may be difficult for non-entomologists to recognize as coccinellids. Conversely, there are many small beetles that are easily mistaken for coccinellids, such as the tortoise.

**Speed and Efficiency at Your Fingertips**

As a next-generation document hub, the MX-5111N/4111N allows easy fingertip control and intuitive operation of state-of-the-art functions. A simple flick, tap, or slide on the MX-5111N/4111N’s 10.1-inch colour LCD touchscreen opens the door to fast 51/41-ppm output, high-quality colour copying, and effortless network scanning. Along with reliable data security and eco-friendly operation, the MX-5111N/4111N offers convenient Advanced Preview and Page Editing functions and a high-speed Duplex Single Pass Feeder. For a performance-enhancing boost, the MX-5111N/4111N supports options for Sharp OSA (Open Systems Architecture), faxing, document finishing, and Internet browsing.

**Next-Generation User Interface**

The MX-511N/4111N’s 10.1-inch colour LCD, Advanced Preview function, and intuitive operation put control at the tip of your fingers, making it easy for even first-time MFD users to navigate. Document finishes like stapling and page layout can be confirmed onscreen before printing out to avoid erroneous printouts and paper waste. Documents can be previewed in various modes, including 3D, edit, and thumbnail, to match the task at hand.

**Web Bro**

A Web browsing option adds viewing and printing out Web the MX-511N/4111N’s LCD

**Choice of Screen Style**

The MX-511N/4111N offers a choice of six LCD screen colours and a universal-design screen. While the default colour is green, 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-5111N/4111N 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

ECOLOGY OF COCCINELLIDAE

Ecocinellidae or ladybugs, are a large family of small to medium-sized, predatory insects in the order Hemiptera. They are commonly orange, yellow, and blue with small black spots on their wing covers, while hummingbird feeders have black and white wings. Most species are found in the tropical and subtropical regions of the world. They are easily recognized by their large head, short wings, and three main body sections. A very large number of coccinellid species are quite beautiful, especially metallic greens, blues, oranges, and purples, often having iridescent, metallic reflectivity. Conversely, there are many small beetles that are easily mistaken for coccinellids, such as the common ladybug.

ECOLOGY OF COCCINELLIDAE

Original

Copy

Auto recognition

Black spots with black head. A v

Advanced Environmental Performance

The MX-5111N/4111N boasts state-of-the-art environmental technologies and a range of eco-functions. A short warm-up time is just one of the pluses making this MFD a real energy saver. Dramatically reduced power consumption also means that TEC values*1 are significantly lower than the maximum allowable values determined by ENERGY STAR®.

Lower TEC Value

<table>
<thead>
<tr>
<th>Model</th>
<th>Lower TEC Value</th>
<th>Max. allowable TEC value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX-5111N</td>
<td>27.7% 4.12 kWh*2</td>
<td>14.85 kWh</td>
</tr>
<tr>
<td>MX-4111N</td>
<td>31.3% 3.55 kWh*2</td>
<td>11.35 kWh</td>
</tr>
</tbody>
</table>

Shorter Warm-Up Time*3

*2 Measured at 230V.
*3 Compared to MX-5001N (warm-up time 140 seconds) and MX-4101N (warm-up time 120 seconds).
PRODUCTIVE

Super-Efficient Colour and B/W Output
The MX-5111N/4111N delivers a fast output of 51/41 cpm/ppm* in B/W and in full colour. The first copy comes out in just 4.1/4.7 seconds in B/W and 5.7/6.7 seconds in full colour to save valuable time when performing multiple short-run jobs.

* A4, long-edge feeding

Speedy Document Feeding
The MX-5111N/4111N comes standard with a highly efficient 150-sheet DSPF (duplex single pass feeder), which scans both pages of two-sided documents up to A3 in size in one pass. Doing away with the reversing circuit minimises paper misfeeds and vastly improves reliability. With a scanning speed of 75 originals per minute* (cpm) for both two-sided and one-sided originals, the MX-5111N/4111N finishes even large projects quickly.

* When feeding A4 sheets in B/W

Built-In Stackless Duplex Module
The MX-5111N/4111N can make two-sided copies and printouts using its built-in stackless duplex module, effectively reducing paper costs as well as saving filing space.

Automated Finishing
The MX-5111N/4111N offers plenty of finishing options to suit a variety of workplaces and applications. Both a space-efficient Finisher and a 4,000-sheet Finisher option are available for sorting and stapling. The Saddle Stitch Finisher option for stapling documents up to 50 sheets can also fold and staple sets of documents up to 15 sheets to make completed booklets. Another Saddle Stitch Finisher handles A3W paper with ease. Also the Punch Module option punches holes in documents for easy filing.

Large Paper Capacity
An optional 3,500-sheet large-capacity tray is available for high-volume work, bringing the total paper capacity to 5,600 sheets. For extra-large-volume jobs, the Auto Tray Switching function automatically switches to another tray filled with same-size paper.

Supports Most Office Environments
- The MX-5111N/4111N 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-5111N/4111N supports the PCL6 printer language. For compatibility with PostScript 3, the MX-PK11 PS3 Expansion Kit is available.

A Range of Copy/Print Applications

Multi Shot and Booklet Making
Thanks to Multi Shot, two to eight pages of a multi-page document can be copied and up to 16 pages can be printed onto a single sheet, reducing paper use. With the optional Saddle Stitch Finisher, multiple sheets can be automatically centre-stapled together to make booklets.

Custom Images
Customised images prepared by the user, such as a company logo stamp or a “TOP SECRET” watermark, can be used on copies.

Book Divide
When copying or scanning a booklet or book, the Book Divide function separates the right and left (or the top and bottom) of a two-page spread and outputs each page in the original page order.

Image Positioning
With this function, a scanned image, such as a photo or an illustration, can be copied onto another document in a position specified by the user. The output can be confirmed beforehand using the Advanced Preview function on the LCD.
**SUPERB IMAGE QUALITY**

**Improved Imaging System**

Sharp thoroughly revamped its imaging process for the MX-5111N/4111N; 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.

**High-Resolution Output**

The MX-5111N/4111N delivers 600-dpi copying and razor-sharp 1,200-dpi printing—without sacrificing output speed. Digital smoothing technology enhances the print and copy 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.

**VERSATILE OPERATION**

**Direct Printing**

The MX-5111N/4111N can print PDF*, TIFF, JPEG, and XPS* files without using the printer driver. There is also a USB port beneath its control panel, which 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.

*1: Direct printing may not support all PDF, TIFF, JPEG, and XPS formats. *2: Direct PDF printing requires optional MX-FK11. *3: Direct XPS printing requires optional MX-PKX1 and MX-AR5M10.

**Easy, High-Quality Copying**

**Auto Colour Selection** automatically determines whether a page is colour or B/W and selects the appropriate copy mode for that page. **Auto Colour Mode** analyses the contents of each page, distinguishing between different components, such as photos and text. These two features allow the MX-5111N/4111N to print out maps with crisp, clear text and to automatically remove unnecessary background colour from newspaper and magazine copies for clearer output.

**VERSATILE OPERATION**

**Simultaneous Job Processing**

The MX-5111N/4111N makes it easy to simultaneously carry out multiple jobs. Scanned documents can be copied and e-mailed at the same time. Also documents can be simultaneously printed and faxed for ultra-convenient multitasking.

**Other Key Features**

**Repeat Layout**

Upgraded from the conventional Photo Repeat function, this function can repeat an entire page layout as a single image onto a single sheet.

**Auto Zoom for Irregular-Size Originals**

With Auto Zoom, after the user specifies the required finished size of a copy, the MX-5111N/4111N will automatically calculate the appropriate ratio by which to reduce or enlarge an irregular-size original.

**Layout Print**

This function repeats an entire page layout as a single image. The user can specify whether or not to repeat the first page (cover page) of the document.

- **Tab Copy / Tab Print** can copy or print directly onto tabs on document separators and insert them into assigned positions.
- **Card Shot** enables one-touch copying of both sides of a card (credit cards, ID cards, etc.) onto a single page.
- **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 (requires optional MX-PF10)
- **Colour Stamp** labels your copies with page numbers, the date or text such as “Urgent” in up to four different colours.
- **Book Copy** is convenient for compiling copies of a book or bound originals in pamphlet format.
- **Multi-Page Enlargement** divides an image onto separate sheets for making posters up to A0 x 2 in size.

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**COPYING & NETWORK PRINTING**

**MX-5111N**

**CPM**

**MX-4111N**

**PPM**

41

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*When feeding A4 sheets in B/W (opm) for both two-sided and one-sided originals, the A4, long-edge feeding improves reliability. With a scanning speed of 1,200-dpi provides quick, accurate images.

**Super-Efficient Colour and B/W Output**

In B/W and in full colour. The first copy comes out in just seconds. The MX-5111N/4111N delivers a fast output of 9,600 x 600 dpi in size in one pass. Doing scans both in B/W and in full colour to save valuable time when performing multiple short-run jobs.

**Improved Imaging System**

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- **Book Copy** is convenient for compiling copies of a book or bound originals in pamphlet format.
- **Multi-Page Enlargement** divides an image onto separate sheets for making posters up to A0 x 2 in size.
A3 Colour Network Scanning
The MX-5111N/4111N works as a full-colour network scanner and supports TIFF, PDF, encrypted PDF, compact PDF*, PDF/A, XPS, and JPEG 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). Five levels of sharpness and contrast control enable finely tuned adjustments for optimal image quality.

* Requires optional MX-EB11.

Multiple Distribution of Scanned Files
With just a few taps on the LCD touchscreen, 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 (SMF) sends files to a shared folder on a networked Windows PC. Scan to External Memory Device scans documents directly to USB memory devices. Scan to Fax enables conventional faxing or Internet faxing.

One Scan/Multi Format
This function allows you to specify image resolution or colour for each mode of broadcasting employed. For example, when sending the same image data to both a fax and an e-mail destination, you can send a B/W version via fax and a full-colour version via e-mail.

LDAP Support
Built-in LDAP (lightweight directory access protocol) support eliminates the need to enter or register full addresses. When you enter the first few letters of the recipient's name, the MX-5111N/4111N displays a list of possible matches from your company's LDAP server. Selected addresses can be stored to the MX-5111N/4111N's address book.

Drop Out Colour
This function removes chromatic colour from a scanned image, reducing the data size for compact storage and enhancing the legibility of B/W text to improve the text recognition rate before OCR.

Black Letter Emphasis
When text-heavy documents are scanned, this function improves the legibility of B/W text while keeping the file size down. Text is scanned at high resolution while the rest of the document, including photos and illustrations, is scanned at a lower resolution.

Improved Address Book
With the MX-5111N/4111N's improved address book format, up to seven destinations, including e-mail addresses, fax numbers, and FTP addresses, can be displayed under each registered entry. For enhanced security, when registering an entry, you can select whether the information will be open to all MFD users or limited to only designated users or groups. Since only the viewable addresses for each logged-in user are displayed, the list of addresses is narrowed down, making address searches easier.

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 T-37-compliant Internet fax machines via the Internet. Thanks to Direct SMTP support, 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 them out. It can also forward incoming faxes to destinations—another fax/Internet fax machine, an FTP server, a network folder (SMF), or a PC desktop—specified for each sender.

Fax Data Storage on MFD Hard Disk
The MX-5111N/4111N lets you select important fax data from the Received Fax Data List, store it on the MFD’s hard disk, and manage it via the Document Filing function. (See page 6.)

Time-Specified Fax Output
The MX-5111N/4111N can withhold output of incoming faxes until a user-specified time: during lunch break, for example, when the MFD is not heavily used.
Document Management on the Hard Disk

You can save processed job data in designated folders on the MFD's 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.

**Quick Filing**

Up to 10,000 pages or 1,000 files* that have been copied, printed, scanned, or faxed can be stored by job on the hard disk 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* that have been copied, printed, scanned, or faxed 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.

**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.

**File Combining**

For more effective data utilisation, two files saved on the MFD's hard disk can be easily combined into one file.

**PDFs for PC Browsing**

Processed job data can be saved in PDFs for browsing and downloading on a PC and in dedicated Document Filing formats.

**Easy Sharing of Application Files**

The MX-5111N/4111N’s hard disk enables files created with applications such as Word and Excel® to be saved in their original file format and shared across the office network.

**Mirroring Kit**

To protect the enhanced data handling capability of the MFD's hard disk, which provides improved Document Filing functions and easy sharing of application files, the optional Mirroring Kit offers hard disk backup and peace of mind.

**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

* Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The Quick File Folder shares the hard disk with the Job Build function. The storage capacity will be less for colour pages.

*1: CMYK print data cannot be resent.
*2: These functions require their respective options. See page 5 for details.
Powerful Multi-Layered Security

With multiple levels of network and data security to cover a wide range of security needs, Sharp’s security solutions protect your business assets and bring peace of mind. The MX-5111N/4111N safeguards sensitive data with powerful, enhanced security functions that eliminate the worry of unauthorised use and guarantee greater protection for your confidential information.

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-5111N/4111N also supports the IEEE 802.1X standard for port-based network access control, which blocks all access from unauthorised devices.

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.

User Authentication

The MX-5111N/4111N 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-5111N/4111N works with an external Active Directory server to extend user authentication to multiple MFDs and a greater number of users.

Encrypted PDF with Password Protection

To prevent unauthorised viewing of confidential data, the MX-5111N/4111N 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.

Data Security Kit

Digital copier/printers or MFDs 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 from each completed job as well as the data stored on the hard disk and in the address book.

SSL and IPsec Data Encryption

To ensure an extremely high level of network security, the MX-5111N/4111N employs SSL (secure sockets layer) and IPsec (IP security) data encryption technologies. SSL encryption prevents 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). IPsec, an obligatory part of the IPv6 Internet protocol, encrypts and authenticates traffic between specified parties.

Data Initialisation

The MX-5111N/4111N’s initialisation function allows confidential information to be erased at the administrator’s discretion via the MFD’s system settings. Initialising an MFD when it’s taken out of service prevents data leakage and provides considerable peace of mind.

Hidden Pattern Copy/Print

With this function, a watermark, such as “Confidential” or “Not for Copy,” can be embedded onto a document. If that document is copied, the watermark will appear, alerting the user not to distribute it.

Tracking Information Print

This function prints the MFD user’s name, the date, the MFD’s serial number, job ID, and other specifics on printouts, making it possible to track documents and prevent data theft.
**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](Image)

### 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.

![Web-based SRDM](Image)

### Remote Diagnosis

The MX-5111N/4111N 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.

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**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-5111N/4111N boasts a low power consumption rate.

- Sharp's belt fusing system shortens the MX-5111N/4111N's warm-up time to **34/30 seconds**, contributing to reduced overall energy consumption.

- Based on prior usage patterns, the MX-5111N/4111N automatically determines the optimal length of time to let elapse before going into auto power shut-off mode, helping reduce overall power consumption.

- **Power ON/OFF Schedule** function automatically turns the MX-5111N/4111N on or off according to time schedules set by the administrator.

<table>
<thead>
<tr>
<th>Power off</th>
<th>Power on</th>
<th>Off</th>
<th>On</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>12:00</td>
<td>18:00</td>
<td>17:00</td>
<td></td>
</tr>
<tr>
<td>Start of day</td>
<td>Lunch break</td>
<td>End of day</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Eco Scan** function saves energy by turning off power to the fusing system during jobs that don’t require any printing, 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-5111N/4111N deliver excellent performance and energy efficiency.
10.1-Inch Colour LCD Touchscreen

MFD operation has never been so intuitive, so easy! The MX-5111N/4111N’s control panel features a wide, clear, WVGA-resolution LCD touchscreen. Simply touch, tap, flick, or slide a finger on the screen for effortless control of every document, function, and setting. For strain-free viewing, the MX-5111N/4111N’s user interface employs a smooth, bold scalable font in sizes that vary in line with the content on display.

Advanced Preview

The Advanced Preview function saves you time and effort by displaying scanned images on the LCD for confirmation and editing. Document finishes, such as page layout and stapling, can be checked before the documents are printed out. Previewed pages can be easily rotated, put in a different order, and deleted via tap-and-drag editing right on the LCD. You can even erase specific parts of a previewed page and insert blank pages.

Customisable Screen

The Home screen can be customised for individual users by programming their most frequently used functions and settings and creating shortcut keys for quick and easy access. The Enlarge Display mode brings added readability.

On-Screen User Manual

Stored on the MX-5111N/4111N’s hard disk for quick and easy reference, the user manual can be readily accessed for viewing on the large LCD.

Action Panel

The Action Panel appears on the right side of the touchscreen to guide you through operational procedures. The MFD intuits what actions to take next and the Action Panel displays shortcut keys and messages pertaining to those actions.

Universal Design

• The control panel can be tilted to five different angles* for easy viewing.
  * If the optional MX-FNX9 finisher is installed, the number of angles is limited to two: the top and second from the top.
• Easy-grip handles allow the paper drawers to be grasped from the top as well as the bottom for easy opening and closing.

Retractable Keyboard (option)

A full-size retractable QWERTY keyboard slides out from beneath the control panel to make text input fast and easy: convenient for typing things like e-mail addresses and messages, as well as passwords for user authentication.

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.
* PDF printing requires optional MX-PK11.

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-5111N/4111N 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.
**OPTIONS**

System Configuration

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**Specifications for Options**

**MX-FNX9 Finisher**
- Paper size: Non offset
- Max. paper capacity: 500 sheets (A4) or smaller, 250 sheets (B4 or larger)
- Max. 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, Offset/standard, Saddle stitch
- Max. paper capacity: 1,000 sheets (A4 or smaller, except A5R), 2,450 sheets (A4)
- Max. stapling capacity: 50 sheets (A4 or smaller), 30 sheets (A4R, B4 or larger)
- Staple position: 3 locations (front, rear or both)

**MX-FN11 Finisher**
- Paper size: Non offset
- Max. paper capacity: 1,550 sheets (A4), 2,450 sheets (A4)
- Max. stapling capacity: 50 sheets (A4 or smaller), 30 sheets (A4R, B4 or larger)
- Staple position: 3 locations (front, rear or both)

**MX-FN18 Saddle Stitch Finisher**
- Paper size: Non offset
- Max. paper capacity: 1,550 sheets (A4)
- Max. stapling capacity: 50 sheets (A4 or smaller), 30 sheets (A4R, B4 or larger)
- Staple position: 3 locations (front, rear or both)

**Punch Modules**
- Model name: For the MX-FN9, MX-PNX1A, MX-PNX1B, MX-PNX1C, MX-PNX1D
- Number of holes: 2, 3, 4, 4 (wedge)
- Paper weight: 55 to 256 g/m²

**MX-DE16 Stand with 2 x 500-Sheet Paper Drawers**
- Paper size (upper and lower tray): A3 to ASR
- Paper capacity (upper and lower tray): 500 sheets each

**MX-LC11 Large-Capacity Tray**
- Paper size: A4, B5
- Paper capacity: 3,500 sheets

**MX-FX11 Fax Expansion Kit**
- Compression method: MH/MR/MMR/BIG
- Communication protocol: Super G3/G3
- Modem speed: 33,600 bps to 2,400 bps

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

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Certain options may not be available in some areas.

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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. 5141 cpm/spm (A4, long-edge feeding)
- **Paper size**: Max. A3 wide, min. A5R
- **Paper capacity** (80 g/m²): Standard: 1,100 sheets (two 500-sheet trays and 100-sheet multi-bypass tray)
- **Paper weight**: Maximum: 5,600 sheets
- **Warm-up time**: MX-5111N: 34 sec., MX-4111N: 30 sec.
- **Memory** (Standard: Copy/print): 3GB, 1600 HDD*½
- **Power requirements**: 230-240V AC, 50/60 Hz
- **Power consumption (max)**: 1.84 kW
- **Dimensions (W x D x H)**: 643 x 761 x 966 mm
- **Weight (approx.)**: MX-5111N: 127 kg, MX-4111N: 126 kg
- **Features**: Job build, document filing, user authentication (1,000 accounts), toner save mode, pre-feed/auto power shut-off modes, advanced preview, etc.

**Copier**

- **Original paper size**: Max. A3
- **Continuous copy**: Max. 999 copies
- **Resolution**: Scan (colour): 600 x 600 dpi, Scan (B/W): 600 x 600 dpi, 600 x 400 dpi
- **Print**: 600 x 600 dpi, 9,600 (equivalent) x 600 dpi (depending on product mode)
- **Gradation**: Equivalent to 256 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**: 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 (B4/2-in-1), covertransparency/tab page insertion, watermark copy, 2-sided copy orientation change, XY zoom, B/W reverse, mirror image, duplicate job, reservation job program, repeat layout, irregular original/paper size input, stamps, (watermark, date, page number, text, stamp), multi-page enlargement, tab copy, centering, proof copy, auto colour mode, auto colour selection, auto calibration, sharpness, card shot, original count, edge/side erase, user stamps, blank page skip, position image, book divide, hidden pattern print, tracking information print, etc.

**Network Scanner**

- **Scan method**: Push scan (via control panel), pull scan (TWAIN-compliant application)
- **Resolution**: Push scan: 100, 150, 200, 300, 600 dpi
- **Pull scan**: 75, 100, 150, 200, 300, 400, 600 dpi
- **File formats**: TIFF, PDF, encrypted PDF, JPEG, XPS*, compact PDF**, PDF/A
- **Scanner utility**: Sharpdesk
- **Scan destinations**: Scan to e-mail/desktop/FTP server/network folder (SMB)/USB memory
- **Features**: Internet fax*7 (supports direct SMTP), IP-Centric fax transmission*7, auto colour mode, mixed size original scanning, LDAP support, direct entry (address, subject, message), 2,000 one-touch dial, 500 group dial, 48 job programmes, broadcasting, long original scanning (max. 1,000 mm)*11, auto colour selection, card shot, original count, edge/side erase, drop-out color, one scan multi format, book divide, blank page skip, etc.

**Network Printer**

- **Resolution**: 1,200 x 1,200 dpi, 600 x 600 dpi, 9,600 (equivalent) x 600 dpi
- **Supported OS**: Windows® Server* 2003/2008, Windows® Vista®, Windows® 7, Mac OS 9.0 to 9.2.2, Mac OS X 10.2.8, 10.3.9, 10.4.11, 10.5 to 10.5.8, 10.6.3
- **Network protocols**: TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), NetBEUI, EtherTalk (AppleTalk) LPR, Raw TCP (port 9100), PPD (e-mail printing), HTTP, Novel PrintServer application with NDS and Bindery, FTP for downloading print files, EtherTalk printing, IPP
- **PDL (emulation)**: Standard: PCL 6 emulation, Option*½: PS3 emulation, XPS
- **Available fonts**: 80 fonts for PCL, 136 fonts for PS3 emulation
- **Network tandem print**: RIP Once/Print Many, retention (proof print, confidential print), direct PDF/FTIF/EPXF/PDF printing, carbon copy print, duplex print, fontform download, offset output, pantone print
- **Duplex transmission/reception**: quick on-line transmission, error correction mode, 2,000 one-touch dial, 500 group dial, LDAP support, 48 job programmes, broadcasting, number registration, P-Caf 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, etc.

**B/W Facsimile (optional MX-EF11 required)**

- **Compression method**: MH/MMR/MMR/BIG
- **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
- **Grey scale levels**: Equivalent to 256 levels
- **Features**: Duplex transmission/reception, quick on-line transmission, error correction mode, 2,000 one-touch dial, 500 group dial, LDAP support, 48 job programmes, broadcasting, number registration, F-Cafe 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, etc.

**Document Filing**

- **Document filing capacity**: Main and custom folders: 20,000 pages** or 3,000 files
- **Copy**: Quick file folder: 10,000 pages** or 1,000 files
- **Stored jobs***½: Copy, print, scan, fax
- **Storage folders**: Quick file folder, main folder, custom folder (max. 1,000 folders)
- **Confidential storage**: Password protection (for main and custom folders)

**MX-5111N/4111N Digital Full Colour Multifunctional System**

**Your Colour Document Hub for**

Intuitively Better, Innovatively Sharp—

**Digital Full Colour Multifunctional System**

**Copy**: MX-4111N
**Print**: MX-4111N

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*1*: At rated voltage, 23°C. May vary depending on operating conditions and environment.
*2*: HDD capacity depends on procurement and sourcing status.
*3*: Long-edge feeding of A4 sheets from 1st paper tray, using document glass, without pre-feed/auto power shut-off modes, advanced preview, etc.
*4*: Resolutions higher than 600 dpi are interpolated.
*5*: To view XPS files on PCs not running Windows Vista, you must have the XPS Viewer application installed.
*6*: Optional MX-EB11 required.
*7*: Optional MX-PK11 required for Mac OS and environment.
*8*: Optional MX-PK11 required.
*9*: Optional MX-PK11 required.
*10*: Some features require option(s).
*11*: Optional MX-PK11 required for Mac OS and environment.
*12*: PS requires optional MX-PX11. PS requires optional MX-PX11 and MX-AR010 (1GB). *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.

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*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.
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